

Shanghai Xinxun Microwave Technology Company



# 2020

## 射频微波器件

### RF Microwave Devices



昕讯微波  
Xinxun Microwave

# COMPANY PROFILE

## 公司简介



上海昕讯微波科技有限公司成立于1990年（前身是上海创新高温线缆厂）是一家专业从事低损耗稳相射频电缆、RF电缆、核电用信号通信电缆、特种耐高温电缆、同轴射频连接器与电缆组件及微波无源器件的制造型企业。产品特殊、专业性很强，在部分地区与领域具有较高知名度。公司于2019年将生产基地搬迁至南通，新厂面积4000余平方，拥有洁净车间4个，检测中心达到500平米。公司于2016年同时获得ISO9001与GJB9001质量管理体系，在2018年底取得高新技术企业资质认定，目前拥有专利28项，员工58人，其中高级职称2人，中级职称5人。

在低损耗稳相电缆领域，多款产品通过认证鉴定并取得8项专利，达到世界先进水平。在微波射频电缆领域曾担过许多重要项目，如中国电科40研究所高性能射频同轴电缆国产化项目，XXX型雷达电缆配套等。在核电领域参与了包括巴基斯坦C1、C2、C3、C4及秦山一期改造等重要项目，多款核用通信电缆通过了MSLB模拟事故试验。还可根据不同客户的特殊要求，组织生产满足不同客户要求的合格产品。在生产方面，我公司拥有电线电缆制造方面先进的技术力量与设备、完善的测试手段、现代化的生产管控、严格的工艺要求，确保了产品的质量。2013年初与哈

尔滨理工大学电气学院电气绝缘与电缆专业成立了联合微波实验室，并定期与学院方面组织技术交流与探讨。

在微波无源器件领域，拥有实用新型专利18个，成功研制了67G小型化衰减器，50G及67G高精密度衰减器，超小型67G负载，大功率可替换型高频衰减器等，性能指标均达到或超越国际先进水平，得到了国内外客户的一致认可。2017年项目组增添了2台高频率功放，能模拟各环境下从1.8~18GHz最大2000W的器件状态，这样能更好的给客户id提供高性能高需求度的合格产品。



We, Shanghai Xin Xun Microwave Technology Co., Ltd., founded in 1990, (formerly known as Shanghai Innovation High Temperature Cable Factory) is specialized in engaged in the low loss RF cable, RF cable, stationary phase signal communication cables for nuclear power, special high temperature resistant cable, RF coaxial connector, cable assembly and microwave passive components manufacturing enterprises. The products are special and professional, and are well known in some areas and fields. In 2019, the company relocated its production base to Nantong. The new plant has an area of more than 4,000 square meters. It has 4 clean workshops and a testing center of 500 square meters. The company also obtained ISO9001 and GJB9001 quality systems in 2016, and Obtain the qualification of high-tech enterprises by the end of 2018. Currently, the company owns 28 patents in China. There are 58 employees in the company, and 2 of them have senior professional title and 5 have intermediate professional titles.

The company has 8 patents regarding to the low loss and stable phase cable, and many products are certified with world advanced level. In the field of microwave radio frequency cable, our company has taken leadership in many important projects, such as the localization of high-performance RF coaxial cable in CETC No.40 Research Institution, XXX type radar supporting project, etc. In the field of nuclear power, we also took part in the Project C1, C2, C3, C4 in Pakistan and the reconstruction of phase 1 Qinshan Nuclear Power Station. Many of our nuclear communication cables passed the MSLB simulation accident test. We can design and produce customized products according to different requirements. In terms of production, our company has advanced wire and cable manufacturing technology and equipment, perfect testing means, modern production control and strict technical requirements, to ensure the quality of the product. In early 2013, a joint microwave laboratory was established by our company and College of Electric

cal & Electronic Engineering of Harbin University of Science & Technology for frequent discussion and study of technical.

In the field of microwave passive devices, our company has 18 utility model patents and successfully developed a miniaturization attenuator with 67G and 50G as well as the high precision attenuator with 67G, 67G subminiature attenuator, high-power replaceable high-frequency attenuator, etc. They are all with high performance reach or exceed the international advanced level, and are well received by domestic and foreign customers. In 2017, we had two more high frequency power amplifiers, which can simulate the device state of maximum 2000W from 1.8~18GHz in various environments, so as to provide qualified products with higher performance for different customers.

# 产品简介

## Product introduction

在微波无源器件领域,拥有实用新型专利18个,成功研制了67G小型化衰减器,50G及67G高精度衰减器,超小型67G负载,大功率可替换型高频衰减器等,性能指标均达到或超越国际先进水平,得到了国内外客户的一致认可。

In the field of microwave passive devices,our company has 18 utility model patents and successfully developed a miniaturization attenuator with 67G and 50G as well as the high precision attenuator with 67G,67G subminiature attenuator,high-power replaceable high-frequency attenuator,ect.They are all with high performance reach or exceed the international advanced level,and are well received by domestic and foreign customers.

### 1.85毫米波系列



1.85J负载



1.85JK衰减器

### 2.4毫米波系列



2.4J负载



2.4JK衰减器

### 2.92毫米波系列



2.92J负载



2.92K负载



2.92JK衰减器

### SMA系列



SMAJ负载



SMAJK衰减器

### 大功率系列



5W衰减器/负载



10W衰减器/负载



20W衰减器/负载

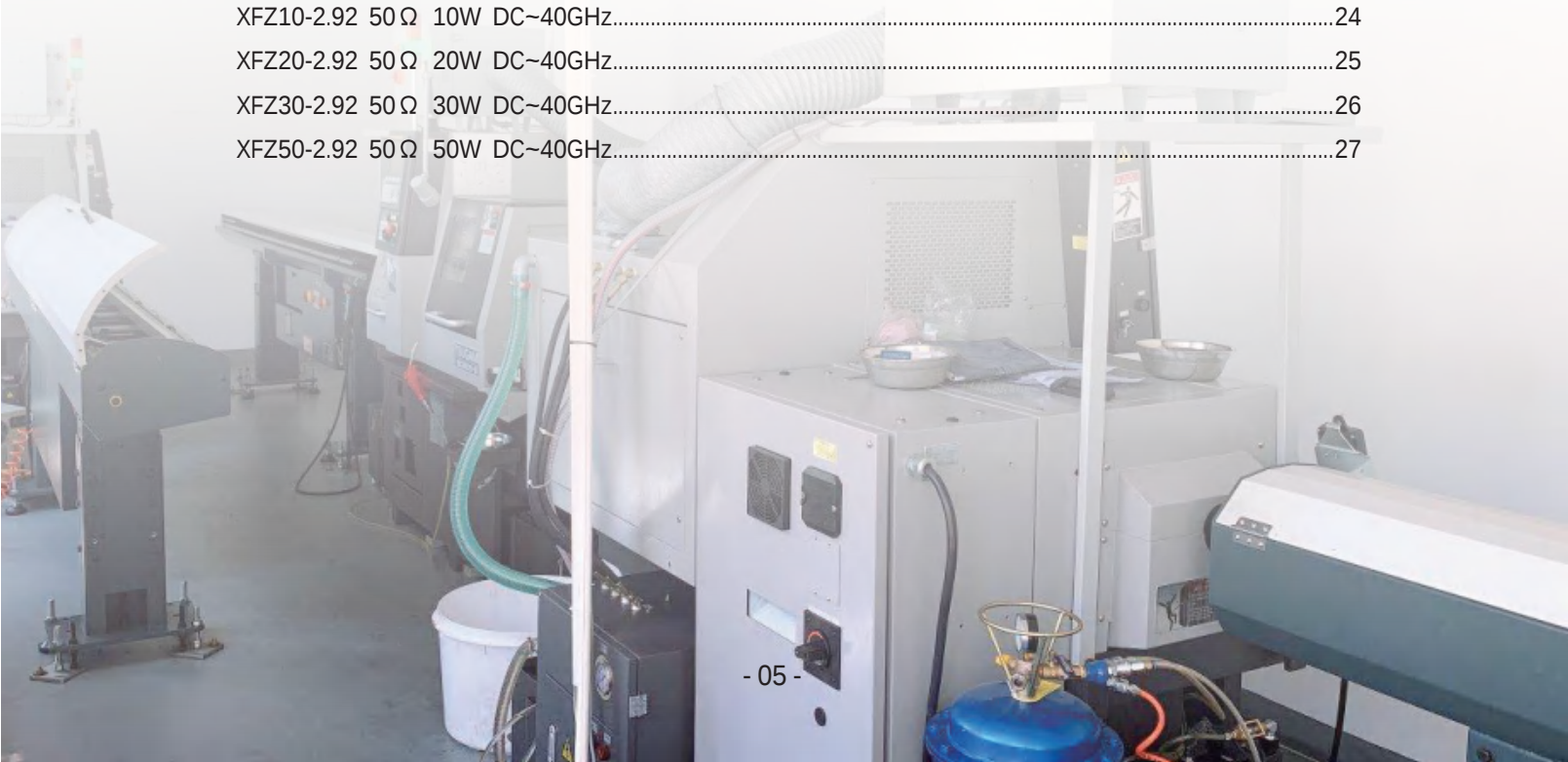


30W衰减器/负载

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## 同轴固定衰减器 / Coaxial Fixed Attenuators

同轴固定衰减器适用于任何需要降低功率电平或进行电路匹配的场所，可定量吸收传输线中的能量，扩展功率量程，控制功率电平，并可配以小功率计，综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

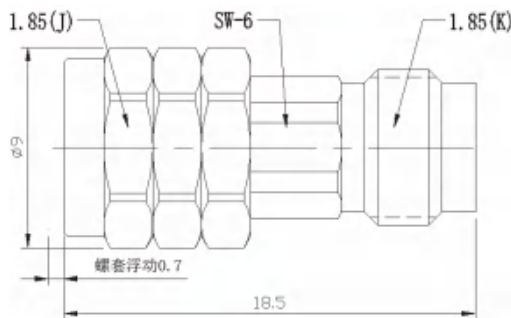
The coaxial fixed attenuator is suitable for any situation where the power level needs to be reduced or circuit matching. It can quantitatively absorb the energy in the transmission line, expand the power range, control the power level, and can be equipped with a small power meter, comprehensive tester or spectrum analyzer to accurately measure the power or spectrum of various rf microwave transmitters.

### XSJ2-1.85 50 Ω 2W DC~67GHz

XSJ2-1.85 系列同轴固定衰减器平均功率 2W，频率范围 DC~67GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ2-1.85 series coaxial fixed attenuators have an average power of 2W and a frequency range of DC~67GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                         |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μm / Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μm / Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                         |
| 温度范围 / Temp Range | 储存 (Storage) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                        |
| 重量 / Weight       | 5 g                                                                                                                         |
| RoHS              |                                                                                                                             |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ2-1.85-XX       | DC-67                        | -1.0/+1.2                                  | -1.2/+1.2 | -1.5/+1.5 | 1.35              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 0.5W

峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 1% 占空比 )

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 1% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

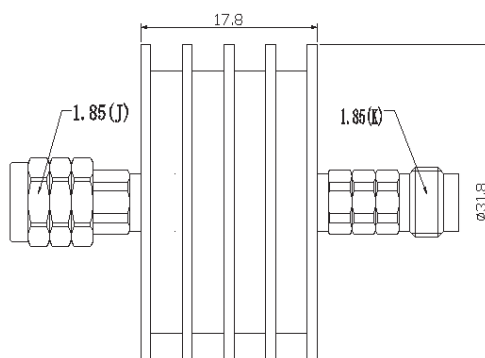
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ5-1.85 50 Ω 5W DC~67GHz

XSJ5-1.85 系列同轴固定衰减器平均功率 5W，频率范围 DC~67GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ5-1.85 series coaxial fixed attenuators have an average power of 5W and a frequency range of DC~67GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器: 不锈钢钝化<br>散热器: 铝合金发黑                               | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳: 黄铜镀金 1.27 μ m<br>阴: 铍青铜镀金 1.27 μ m                  | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                    |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ5-1.85-XX       | DC-67                        | -1.0/+1.5                                  | -1.2/+1.5 | -1.5/+2.0 | 1.40              |

平均功率: 最大功率 5W 对应的环境温度为 25℃, 当环境温度上升到 125℃ 时, 功率线性递减至 0.5W

峰值功率: 最大功率 20W (最大 5 μs 脉宽, 最大 1% 占空比)

Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注:

1、所有外形尺寸单位 mm, 尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴负载 / Coaxial Terminations

同轴负载主要用于吸收射频或微波系统的功率，可作为天线的假负载和发射机终端。也可以作为多端口微波器件如环形器、方向耦合器的匹配端口，从而保证特性阻抗得到匹配，进行精确测量。

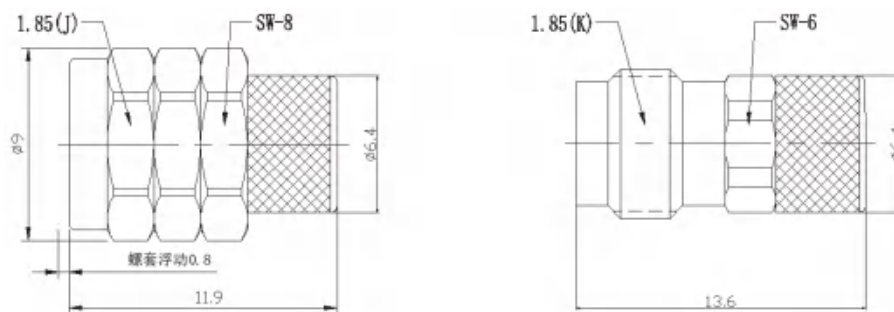
The coaxial load is mainly used to absorb the power of RF or microwave system and can be used as a false load of antenna and transmitter terminal. It can also be used as the matching port of multi-port microwave devices such as circulators and directional couplers to ensure the matching of characteristic impedance and accurate measurement.

### XFZ2-1.85 50 Ω 2W DC~67GHz

XFZ2-1.85 系列同轴负载平均功率 2W，频率范围 DC~67GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ2-1.85 series coaxial load average power 2W, frequency range DC~67GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                       |
| 内导体 / Pin         | 阳: 黄铜镀金 1.27 μm Male: Gold-plated brass 50 micro-inches<br>阴: 铍青铜镀金 1.27 μm Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                       |
| 温度范围 / Temp Range | 储存 (Storage): -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                       |
| 重量 / Weight       | 5 g                                                                                                                       |
| RoHS              |                                                                                                                           |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ2-1.85          | DC-67                        | 1.30              |

平均功率: 最大功率 2W 对应的环境温度为 25℃, 当环境温度上升到 125℃ 时, 功率线性递减至 0.5W

峰值功率: 最大功率 20W (最大 5 μs 脉宽, 最大 1% 占空比)

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注:

1、所有外形尺寸单位 mm, 尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

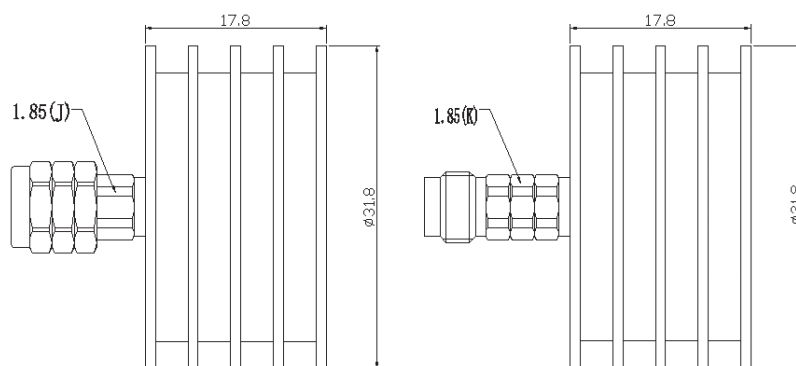
## 同轴负载 / Coaxial Terminations

### XFZ5-1.85 50 Ω 5W DC~67GHz

XFZ5-1.85 系列同轴负载平均功率 5W，频率范围 DC~67GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ5-1.85 series coaxial load average power 5W, frequency range DC~67GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                               |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ5-1.85          | DC-67                        | 1.35              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W (最大 5 μs 脉宽，最大 2.5% 占空比)

Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 2.5% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ±2%。 All dimensions are in mm, with a tolerance of ±2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴固定衰减器 / Coaxial Fixed Attenuators

同轴固定衰减器适用于任何需要降低功率电平或进行电路匹配的场所，可定量吸收传输线中的能量，扩展功率量程，控制功率电平，并可配以小功率计，综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

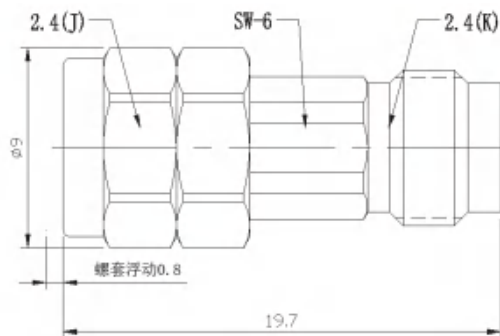
The coaxial fixed attenuator is suitable for any situation where the power level needs to be reduced or circuit matching. It can quantitatively absorb the energy in the transmission line, expand the power range, control the power level, and can be equipped with a small power meter, comprehensive tester or spectrum analyzer to accurately measure the power or spectrum of various rf microwave transmitters.

### XSJ2-2.4 50 Ω 2W DC~50GHz

XSJ2-2.4 系列同轴固定衰减器平均功率 2W，频率范围 DC~50GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ2-2.4 series coaxial fixed attenuators have an average power of 2W and a frequency range of DC~50GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm) / Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                               |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μm      Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μm      Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                               |
| 温度范围 / Temp Range | 储存 (Storage) : -55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                           |
| 重量 / Weight       | 5 g                                                                                                                               |
| RoHS              |                                                                                                                                   |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ2-2.4-XX        | DC-50                        | -1.0/+1.0                                  | -1.0/+1.2 | -1.0/+1.2 | 1.30              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 0.5W

峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 1% 占空比 )

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 1% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。      All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

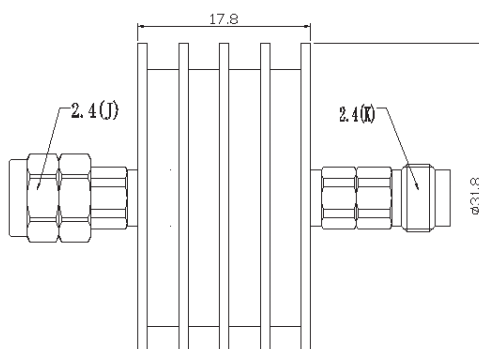
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ5-2.4 50 Ω 5W DC~50GHz

XSJ5-2.4 系列同轴固定衰减器平均功率 5W，频率范围 DC~50GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ5-2.4 series coaxial fixed attenuators have an average power of 5W and a frequency range of DC~50GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                 |                                                                              |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                          | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m    Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m    Female: Beryllium Bronze Gold 50 micro-inches |                                                                              |
| 绝缘子 / Insulators  | PEI                                                                                                                             |                                                                              |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                            |                                                                              |
| 重量 / Weight       | g                                                                                                                               |                                                                              |
| RoHS              |                                                                                                                                 |                                                                              |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ5-2.4-XX        | DC-50                        | -1.0/+1.2                                  | -1.0/+1.2 | -1.0/+1.2 | 1.30              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 0.5W

峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 2.5% 占空比 )

Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 2.5% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴负载 / Coaxial Terminations

同轴负载主要用于吸收射频或微波系统的功率，可作为天线的假负载和发射机终端。也可以作为多端口微波器件如环形器、方向耦合器的匹配端口，从而保证特性阻抗得到匹配，进行精确测量。

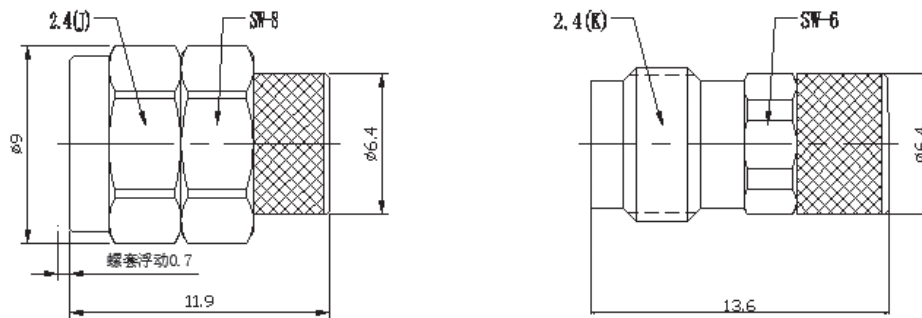
The coaxial load is mainly used to absorb the power of RF or microwave system and can be used as a false load of antenna and transmitter terminal. It can also be used as the matching port of multi-port microwave devices such as circulators and directional couplers to ensure the matching of characteristic impedance and accurate measurement.

### XFZ2-2.4 50 Ω 2W DC~50GHz

XFZ2-2.4 系列同轴负载平均功率 2W，频率范围 DC~50GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ2-2.4 series coaxial load average power 2W, frequency range DC~50GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                       |
| 内导体 / Pin         | 阳: 黄铜镀金 1.27 μm Male: Gold-plated brass 50 micro-inches<br>阴: 铍青铜镀金 1.27 μm Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                       |
| 温度范围 / Temp Range | 储存 (Storage): -55°C ~125°C 工作 (Operating): -55°C ~125°C                                                                   |
| 重量 / Weight       | 5 g                                                                                                                       |
| RoHS              |                                                                                                                           |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ2-2.4           | DC-50                        | 1.20              |

平均功率: 最大功率 2W 对应的环境温度为 25°C, 当环境温度上升到 125°C 时, 功率线性递减至 0.5W

峰值功率: 最大功率 20W (最大 5 μs 脉宽, 最大 1% 占空比)

Average Power: maximum power 2W average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注:

1、所有外形尺寸单位 mm, 尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

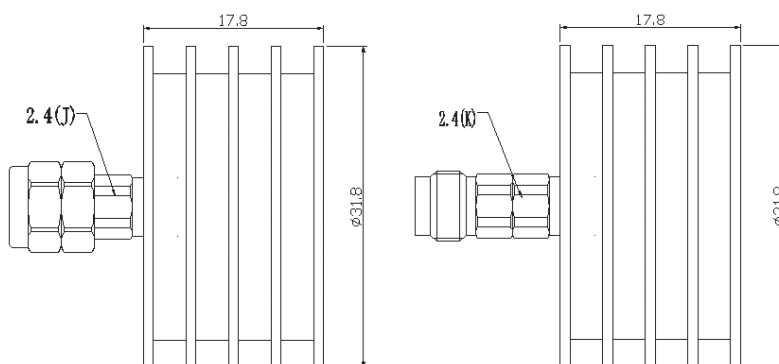
## 同轴负载 / Coaxial Terminations

### XFZ5-2.4 50 Ω 5W DC~50GHz

XFZ5-2.4 系列同轴负载平均功率 5W，频率范围 DC~50GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ5-2.4 series coaxial load average power 5W, frequency range DC~50GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                               |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ5-2.4           | DC-50                        | 1.30              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 2.5% 占空比 )

Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 2.5% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴固定衰减器 / Coaxial Fixed Attenuators

同轴固定衰减器适用于任何需要降低功率电平或进行电路匹配的场所，可定量吸收传输线中的能量，扩展功率量程，控制功率电平，并可配以小功率计，综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

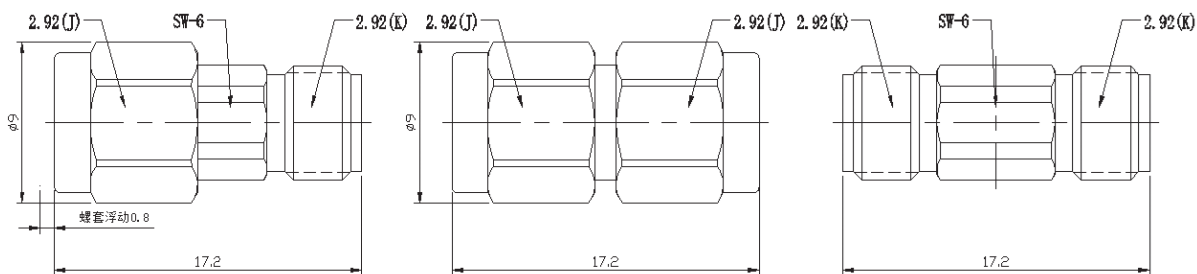
The coaxial fixed attenuator is suitable for any situation where the power level needs to be reduced or circuit matching. It can quantitatively absorb the energy in the transmission line, expand the power range, control the power level, and can be equipped with a small power meter, comprehensive tester or spectrum analyzer to accurately measure the power or spectrum of various rf microwave transmitters.

### XSJ2A-2.92 50 Ω 2W DC~40GHz

XSJ2A-2.92 系列同轴固定衰减器平均功率 2W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ2A-2.92 series coaxial fixed attenuators have an average power of 2W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm) / Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                           |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μm    Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μm    Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                           |
| 温度范围 / Temp Range | 储存 (Storage) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                          |
| 重量 / Weight       | 5 g                                                                                                                           |
| RoHS              |                                                                                                                               |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range (GHz) | 衰减值及精度 Attenuation Value & Accuracy (dB) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|-------------------------------|------------------------------------------|-----------|-----------|-------------------|
|                    |                               | 1~10                                     | 20        | 30        |                   |
| XSJ2A-2.92-XX      | DC-40                         | -0.7/+0.8                                | -0.8/+1.0 | -0.8/+1.0 | 1.25              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W (最大 5 μs 脉宽，最大 1% 占空比)

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ±2%。 All dimensions are in mm, with a tolerance of ±2%.

2、可按客户要求订制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

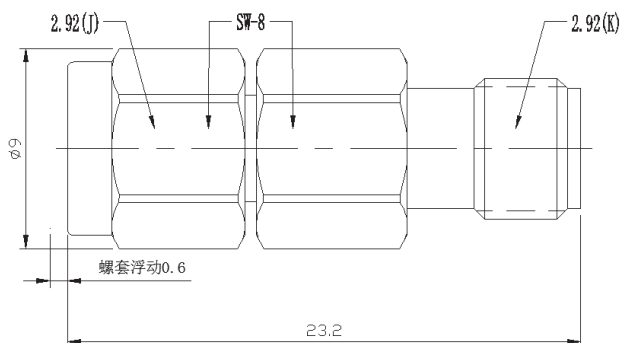
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ2B-2.92 50 Ω 2W DC~40GHz

XSJ2B-2.92 系列同轴固定衰减器平均功率 2W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ2B-2.92 series coaxial fixed attenuators have an average power of 2W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                       |
| 内导体 / Pin         | 阳: 黄铜镀金 1.27 μm Male: Gold-plated brass 50 micro-inches<br>阴: 铍青铜镀金 1.27 μm Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                       |
| 温度范围 / Temp Range | 储存 (Storage): -55°C ~125°C 工作 (Operating): -55°C ~125°C                                                                   |
| 重量 / Weight       | 5 g                                                                                                                       |
| RoHS              |                                                                                                                           |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy (dB) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                     | 20        | 30        |                   |
| XSJ2B-2.92-XX      | DC-40                        | -0.7/+0.8                                | -0.8/+1.0 | -0.8/+1.0 | 1.25              |

平均功率: 最大功率 2W 对应的环境温度为 25°C, 当环境温度上升到 125°C 时, 功率线性递减至 0.5W

峰值功率: 最大功率 20W (最大 5 μs 脉宽, 最大 1% 占空比)

Average Power: maximum power 2W average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注:

1、所有外形尺寸单位 mm, 尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

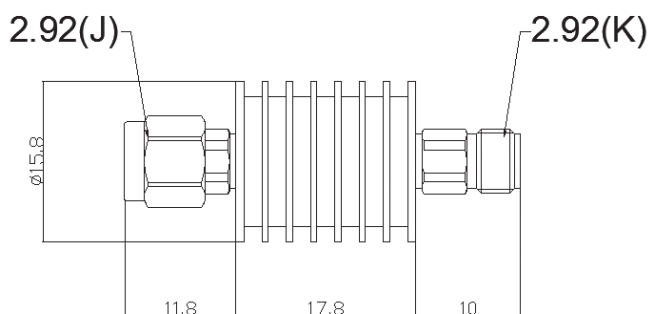
# 同轴固定衰减器 / Coaxial Fixed Attenuators

## XSJ5-2.92 50 Ω 5W DC~40GHz

XSJ5-2.92 系列同轴固定衰减器平均功率 5W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ5-2.92 series coaxial fixed attenuators have an average power of 5W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                               |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ5-2.92-XX       | DC-40                        | -0.7/+1.0                                  | -0.7/+1.0 | -0.7/+1.0 | 1.25              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 50W( 最大 5 μs 脉宽，最大 1% 占空比 )

Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 50W ( Max. 5 μs pulse width, Max. 1% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

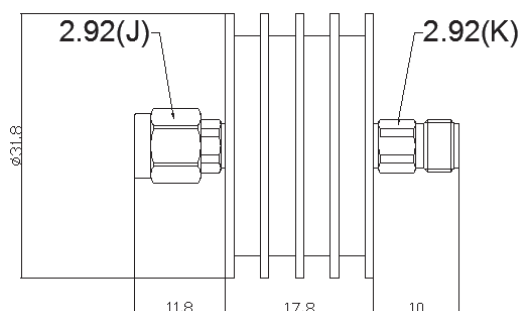
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ10-2.92 50Ω 10W DC~40GHz

XSJ10-2.92 系列同轴固定衰减器平均功率 10W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ10-2.92 series coaxial fixed attenuators have an average power of 10W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                               |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy (dB) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                     | 20        | 30        |                   |
| XSJ10-2.92-XX      | DC-40                        | -0.7/+1.0                                | -0.7/+1.0 | -0.7/+1.0 | 1.25              |

平均功率：最大功率 10W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 1W

峰值功率：最大功率 100W(最大 5 μs 脉宽，最大 5% 占空比)

Average Power: maximum power 10W average to 25℃ ambient temperature, derated linearly to 1W @ 125℃

Peak Power: maximum power 100W (Max. 5 μs pulse width, Max. 5% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

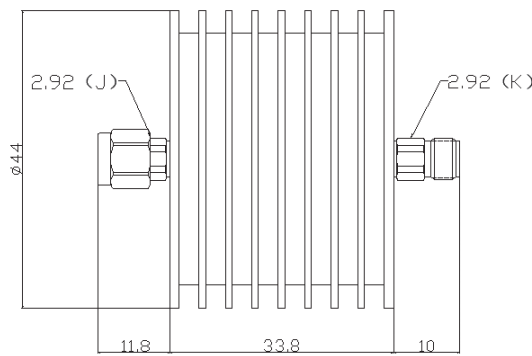
# 同轴固定衰减器 / Coaxial Fixed Attenuators

**XSJ20-2.92 50Ω 20W DC~40GHz**

XSJ20-2.92 系列同轴固定衰减器平均功率 20W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ20-2.92 series coaxial fixed attenuators have an average power of 20W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

## 外形尺寸 (mm)/ Overall Dimensions



## 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                    |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

## 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-----------|-------------------|
|                    |                              | 3-10                                       | 15        | 20        | 30        |                   |
| XSJ20-2.92-XX      | DC-40                        | -1.5/+1.5                                  | -1.5/+1.5 | -1.5/+1.5 | -1.5/+1.5 | 1.30              |

平均功率：最大功率 20W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 2W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 20W average to 25℃ ambient temperature, derated linearly to 2W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

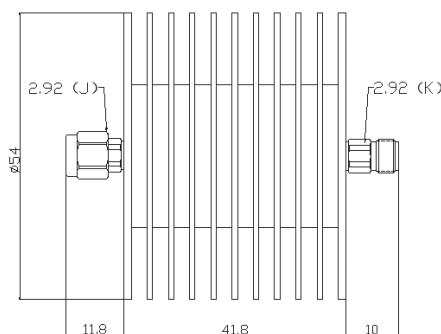
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ30-2.92 50 Ω 30W DC~40GHz

XSJ30-2.92 系列同轴固定衰减器平均功率 20W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ30B-2.92 series coaxial fixed attenuators have an average power of 20W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                               |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 20                                         | 30        | 40        |                   |
| XSJ30-2.92-XX      | DC-40                        | -1.5/+2.0                                  | -1.5/+2.0 | -1.5/+2.0 | 1.35              |

平均功率：最大功率 30W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 3W  
峰值功率：最大功率 200W (最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 30W average to 25℃ ambient temperature, derated linearly to 3W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

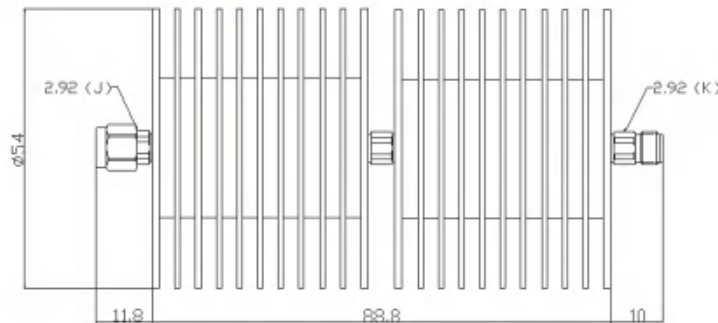
# 同轴固定衰减器 / Coaxial Fixed Attenuators

## XSJ50-2.92 50Ω 50W DC~40GHz

XSJ50-2.92 系列同轴固定衰减器平均功率 50W，频率范围 DC~40GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ50-2.92 series coaxial fixed attenuators have an average power of 50W and a frequency range of DC~40GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                    |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy (dB) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 20                                       | 30        | 40        |                   |
| XSJ50-2.92-XX      | DC-40                        | -3.0/+3.0                                | -3.0/+3.0 | -3.0/+3.0 | 1.35              |

平均功率：最大功率 50W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 5W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 50W average to 25℃ ambient temperature, derated linearly to 5W @ 125℃  
Peak Power: maximum power 200W (Max. 5 μs pulse width, Max. 10% duty cycle)

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴负载 / Coaxial Terminations

同轴负载主要用于吸收射频或微波系统的功率，可作为天线的假负载和发射机终端。也可以作为多端口微波器件如环形器、方向耦合器的匹配端口，从而保证特性阻抗得到匹配，进行精确测量。

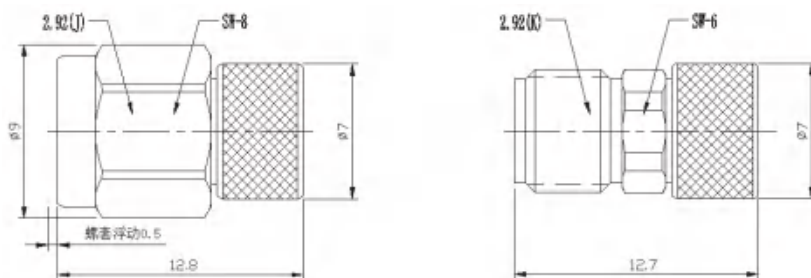
The coaxial load is mainly used to absorb the power of RF or microwave system and can be used as a false load of antenna and transmitter terminal. It can also be used as the matching port of multi-port microwave devices such as circulators and directional couplers to ensure the matching of characteristic impedance and accurate measurement.

### XFZ2-2.92 50 Ω 2W DC~40GHz

XFZ2-2.92 系列同轴负载平均功率 2W，频率范围 DC~40GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ2-2.92 series coaxial load average power 2W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                     |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μm Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μm Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                     |
| 温度范围 / Temp Range | 储存 (Storage) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                    |
| 重量 / Weight       | 5 g                                                                                                                     |
| RoHS              |                                                                                                                         |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ2-2.92          | DC-40                        | 1.20              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W (最大 5 μs 脉宽，最大 1% 占空比)

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

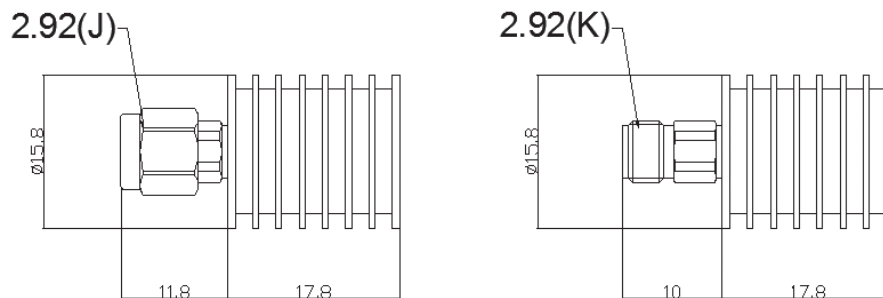
## 同轴负载 / Coaxial Terminations

### XFZ5-2.92 50 Ω 5W DC~40GHz

XFZ5-2.92 系列同轴负载平均功率 5W，频率范围 DC~40GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ5-2.92 series coaxial load average power 5W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                    |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ5-2.92          | DC-40                        | 1.25              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W  
峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 2.5% 占空比 )  
Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃  
Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 2.5% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

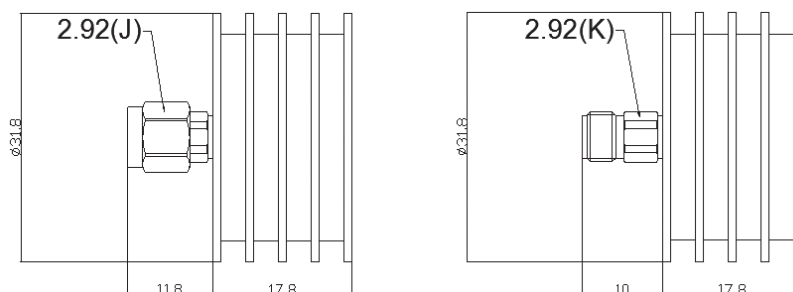
## 同轴负载 / Coaxial Terminations

### XFZ10-2.92 50 Ω 10W DC~40GHz

XFZ10-2.92 系列同轴负载平均功率 10W，频率范围 DC~40GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ10-2.92 series coaxial load average power 10W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                               |                                                                            |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                        | Connector：Stainless Steel Passivation<br>Heat Sinks：Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m    Male：Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m    Female：Beryllium Bronze Gold 50 micro-inches |                                                                            |
| 绝缘子 / Insulators  | PEI                                                                                                                           |                                                                            |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃    工作 (Operating)：-55℃ ~125℃                                                                           |                                                                            |
| 重量 / Weight       | g                                                                                                                             |                                                                            |
| RoHS              |                                                                                                                               |                                                                            |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ10-2.92         | DC-40                        | 1.25              |

平均功率：最大功率 10W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 1W

峰值功率：最大功率 100W(最大 5 μs 脉宽，最大 5% 占空比)

Average Power: maximum power 10W average to 25℃ ambient temperature, derated linearly to 1W @ 125℃

Peak Power: maximum power 100W (Max. 5 μs pulse width, Max. 5% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

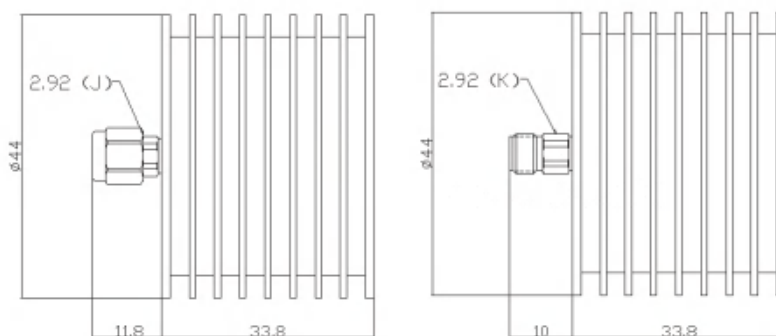
## 同轴负载 / Coaxial Terminations

### XFZ20-2.92 50 Ω 20W DC~40GHz

XFZ20-2.92 系列同轴负载平均功率 20W，频率范围 DC~40GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ20-2.92 series coaxial load average power 20W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                  |                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                           | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：镀青铜镀金 1.27 μ m              | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                              |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                |                                                                                          |
| RoHS              |                                                  |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ20-2.92         | DC-40                        | 1.30              |

平均功率：最大功率 20W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 2W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 20W average to 25℃ ambient temperature, derated linearly to 2W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

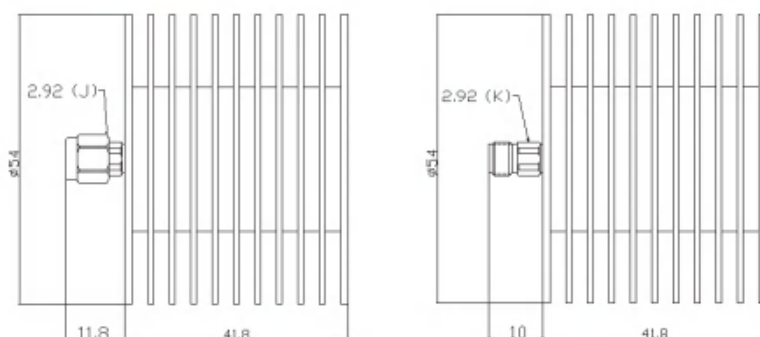
## 同轴负载 / Coaxial Terminations

### XFZ30-2.92 50 Ω 30W DC~40GHz

XFZ30-2.92 系列同轴负载平均功率 30W，频率范围 DC~40GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ30-2.92 series coaxial load average power 30W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：镀青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                               |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ30-2.92         | DC-40                        | 1.30              |

平均功率：最大功率 30W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 3W  
峰值功率：最大功率 200W (最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 30W average to 25℃ ambient temperature, derated linearly to 3W @ 125℃  
Peak Power: maximum power 200W (Max. 5 μs pulse width, Max. 10% duty cycle)

备注：

- 所有外形尺寸单位 mm，尺寸公差 ±2%。 All dimensions are in mm, with a tolerance of ±2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

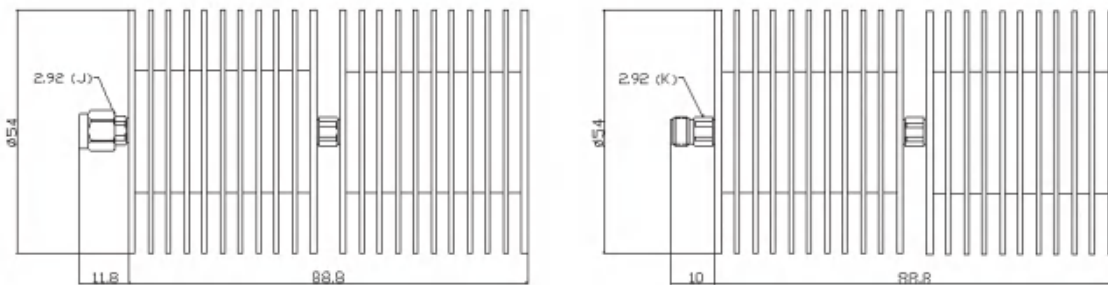
## 同轴负载 / Coaxial Terminations

### XFZ50-2.92 50 Ω 50W DC~40GHz

XFZ50-2.92 系列同轴负载平均功率 50W，频率范围 DC~40GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ50-2.92 series coaxial load average power 50W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                    |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ50-2.92         | DC-40                        | 1.35              |

平均功率：最大功率 50W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 5W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 50W average to 25℃ ambient temperature, derated linearly to 5W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴固定衰减器 / Coaxial Fixed Attenuators

同轴固定衰减器适用于任何需要降低功率电平或进行电路匹配的场所，可定量吸收传输线中的能量，扩展功率量程，控制功率电平，并可配以小功率计，综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

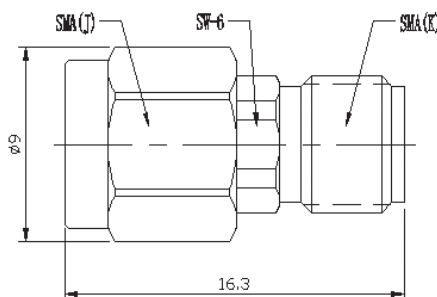
The coaxial fixed attenuator is suitable for any situation where the power level needs to be reduced or circuit matching. It can quantitatively absorb the energy in the transmission line, expand the power range, control the power level, and can be equipped with a small power meter, comprehensive tester or spectrum analyzer to accurately measure the power or spectrum of various rf microwave transmitters.

### XSJ2-SMA 50 Ω 2W DC~27GHz

XSJ2-SMA 系列同轴固定衰减器平均功率 2W，频率范围 DC~27GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ2-SMA series coaxial fixed attenuators have an average power of 2W and a frequency range of DC~27GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm) / Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                  |                                              |
|-------------------|--------------------------------------------------|----------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation              |                                              |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m                                  | Male：Gold-plated brass 50 micro-inches       |
|                   | 阴：铍青铜镀金 1.27 μ m                                 | Female：Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                             |                                              |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                              |
| 重量 / Weight       | 5 g                                              |                                              |
| RoHS              |                                                  |                                              |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range (GHz) | 衰减值及精度 Attenuation Value & Accuracy (dB) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|-------------------------------|------------------------------------------|-----------|-----------|-------------------|
|                    |                               | 1~10                                     | 20        | 30        |                   |
| XSJ2-SMA-XX        | DC-27                         | -0.6/+0.6                                | -0.6/+0.6 | -0.6/+0.6 | 1.25              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W (最大 5 μs 脉宽，最大 1% 占空比)

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

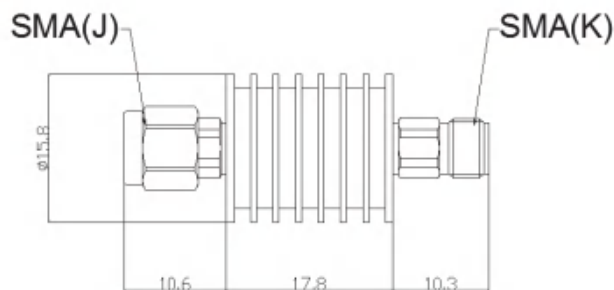
# 同轴固定衰减器 / Coaxial Fixed Attenuators

## XSJ5-SMA 50 Ω 5W DC~26.5GHz

XSJ5-SMA 系列同轴固定衰减器平均功率 5W，频率范围 DC~26.5GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ5-SMA series coaxial fixed attenuators have an average power of 5W and a frequency range of DC~26.5GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                    |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ5-SMA-XX        | DC-26.5                      | -0.6/+0.8                                  | -0.6/+0.8 | -0.8/+1.0 | 1.25              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 0.5W

峰值功率：最大功率 50W( 最大 5 μs 脉宽，最大 2.5% 占空比 )

Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 50W ( Max. 5 μs pulse width, Max. 2.5% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

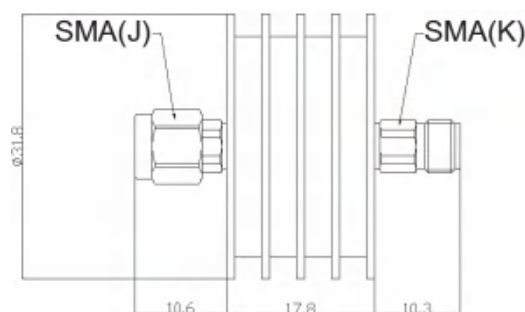
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ10-SMA 50 Ω 10W DC~26.5GHz

XSJ10-SMA 系列同轴固定衰减器平均功率 10W，频率范围 DC~26.5GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ10-SMA series coaxial fixed attenuators have an average power of 10W and a frequency range of DC~26.5GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                 |                                                                              |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                          | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m    Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m    Female: Beryllium Bronze Gold 50 micro-inches |                                                                              |
| 绝缘子 / Insulators  | PTFE                                                                                                                            |                                                                              |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                            |                                                                              |
| 重量 / Weight       | g                                                                                                                               |                                                                              |
| RoHS              |                                                                                                                                 |                                                                              |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 1~10                                       | 20        | 30        |                   |
| XSJ10-SMA-XX       | DC-26.5                      | -0.6/+0.8                                  | -0.6/+0.8 | -0.8/+1.0 | 1.25              |

平均功率：最大功率 10W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 1W  
峰值功率：最大功率 100W( 最大 5 μs 脉宽，最大 2.5% 占空比 )  
Average Power: maximum power 10W average to 25℃ ambient temperature, derated linearly to 1W @ 125℃  
Peak Power: maximum power 100W ( Max. 5 μs pulse width, Max. 2.5% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

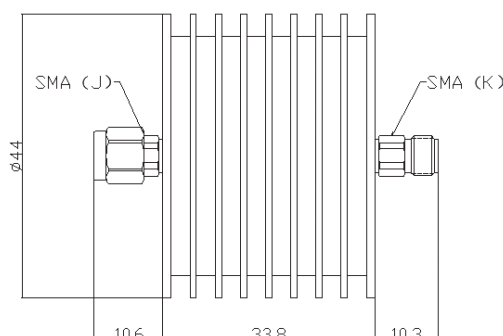
# 同轴固定衰减器 / Coaxial Fixed Attenuators

## XSJ20-SMA 50 Ω 20W DC~26.5GHz

XSJ20-SMA 系列同轴固定衰减器平均功率 20W，频率范围 DC~26.5GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ20-SMA series coaxial fixed attenuators have an average power of 20W and a frequency range of DC~26.5GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                 |                                                                              |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                          | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m    Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m    Female: Beryllium Bronze Gold 50 micro-inches |                                                                              |
| 绝缘子 / Insulators  | PTFE                                                                                                                            |                                                                              |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                            |                                                                              |
| 重量 / Weight       | g                                                                                                                               |                                                                              |
| RoHS              |                                                                                                                                 |                                                                              |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 10                                         | 20        | 30        |                   |
| XSJ20-SMA-XX       | DC-26.5                      | -1.5/+1.5                                  | -1.5/+1.5 | -1.5/+1.5 | 1.30              |

平均功率：最大功率 20W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 2W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 20W average to 25℃ ambient temperature, derated linearly to 2W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

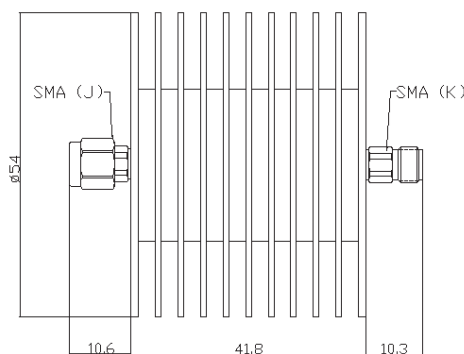
## 同轴固定衰减器 / Coaxial Fixed Attenuators

### XSJ30-SMA 50 Ω 30W DC~26.5GHz

XSJ30-SMA 系列同轴固定衰减器平均功率 30W，频率范围 DC~26.5GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减平坦，抗脉冲，抗烧毁能力强。

XSJ30-SMA series coaxial fixed attenuators have an average power of 30W and a frequency range of DC~26.5GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                 |                                                                              |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                          | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m    Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m    Female: Beryllium Bronze Gold 50 micro-inches |                                                                              |
| 绝缘子 / Insulators  | PTFE                                                                                                                            |                                                                              |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                               |                                                                              |
| 重量 / Weight       | g                                                                                                                               |                                                                              |
| RoHS              |                                                                                                                                 |                                                                              |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 20                                         | 30        | 40        |                   |
| XSJ30-SMA-XX       | DC-26.5                      | -1.5/+1.5                                  | -1.5/+1.5 | -1.5/+1.5 | 1.30              |

平均功率：最大功率 30W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 3W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 30W average to 25℃ ambient temperature, derated linearly to 3W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

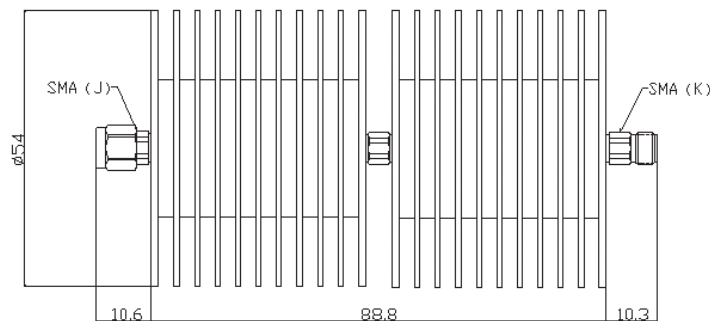
# 同轴固定衰减器 / Coaxial Fixed Attenuators

## XSJ50-SMA 50 Ω 50W DC~26.5GHz

XSJ50-SMA 系列同轴固定衰减器平均功率 50W，频率范围 DC~26.5GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ50-SMA series coaxial fixed attenuators have an average power of 50W and a frequency range of DC~26.5GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                     |                                                                              |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                              | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m      Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m      Female: Beryllium Bronze Gold 50 micro-inches |                                                                              |
| 绝缘子 / Insulators  | PTFE                                                                                                                                |                                                                              |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                              |                                                                              |
| 重量 / Weight       | g                                                                                                                                   |                                                                              |
| RoHS              |                                                                                                                                     |                                                                              |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 20                                         | 30        | 40        |                   |
| XSJ50-SMA-XX       | DC-26.5                      | -2.0/+2.0                                  | -2.0/+2.0 | -2.0/+2.0 | 1.30              |

平均功率：最大功率 50W 对应的环境温度为 25℃，当环境温度上升到 125℃时，功率线性递减至 5W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 50W average to 25℃ ambient temperature, derated linearly to 5W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴负载 / Coaxial Terminations

同轴负载主要用于吸收射频或微波系统的功率，可作为天线的假负载和发射机终端。也可以作为多端口微波器件如环形器、方向耦合器的匹配端口，从而保证特性阻抗得到匹配，进行精确测量。

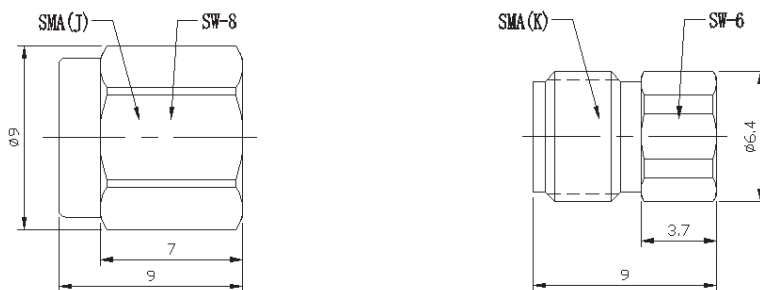
The coaxial load is mainly used to absorb the power of RF or microwave system and can be used as a false load of antenna and transmitter terminal. It can also be used as the matching port of multi-port microwave devices such as circulators and directional couplers to ensure the matching of characteristic impedance and accurate measurement.

### XFZ2-SMA 50 Ω 2W DC~26.5GHz

XFZ2-SMA 系列同轴负载平均功率 2W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ2-SMA series coaxial load average power 2W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 不锈钢钝化 / Stainless Steel Passivation                                                                                     |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μm Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μm Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                                                                                                    |
| 温度范围 / Temp Range | 储存 (Storage) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃                                                                    |
| 重量 / Weight       | 5 g                                                                                                                     |
| RoHS              |                                                                                                                         |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ2-SMA           | DC-26.5                      | 1.25              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W (最大 5 μs 脉宽，最大 1% 占空比)

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

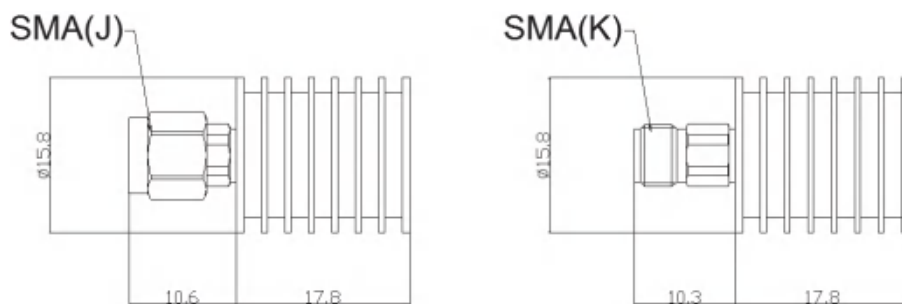
## 同轴负载 / Coaxial Terminations

### XFZ5-SMA 50 Ω 5W DC~26.5GHz

XFZ5-SMA 系列同轴负载平均功率 5W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ5-SMA series coaxial load average power 5W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                                   |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ5-SMA           | DC-26.5                      | 1.25              |

平均功率：最大功率 5W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W  
峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 2.5% 占空比)  
Average Power: maximum power 5W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃  
Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 2.5% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

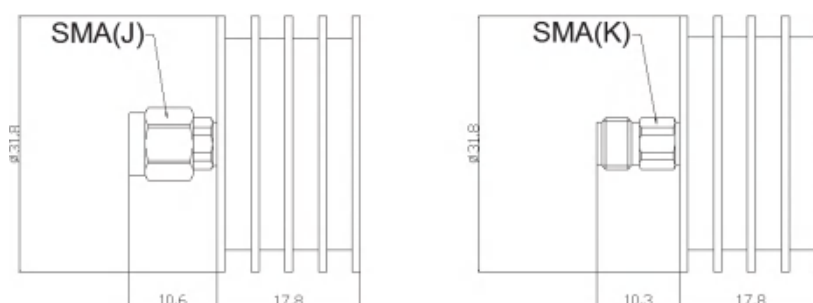
## 同轴负载 / Coaxial Terminations

### XFZ10-SMA 50 Ω 10W DC~26.5GHz

XFZ10-SMA 系列同轴负载平均功率 10W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ10-SMA series coaxial load average power 10W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                  |                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                           | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：镀青铜镀金 1.27 μ m              | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                             |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                |                                                                                          |
| RoHS              |                                                  |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ10-SMA          | DC-26.5                      | 1.25              |

平均功率：最大功率 10W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 1W  
峰值功率：最大功率 100W(最大 5 μs 脉宽，最大 5% 占空比)  
Average Power: maximum power 10W average to 25℃ ambient temperature, derated linearly to 1W @ 125℃  
Peak Power: maximum power 100W (Max. 5 μs pulse width, Max. 5% duty cycle)

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

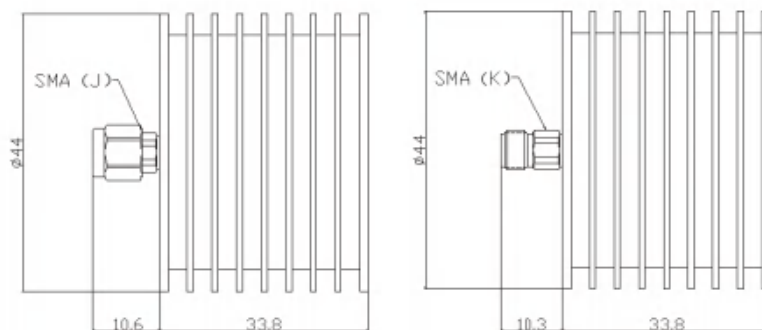
## 同轴负载 / Coaxial Terminations

### XFZ20-SMA 50 Ω 20W DC~26.5GHz

XFZ20-SMA 系列同轴负载平均功率 20W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ20-SMA series coaxial load average power 20W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：镀青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                                   |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ20-SMA          | DC-26.5                      | 1.30              |

平均功率：最大功率 20W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 2W  
峰值功率：最大功率 200W( 最大 5 μs 脉宽，最大 10% 占空比 )  
Average Power: maximum power 20W average to 25℃ ambient temperature, derated linearly to 2W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

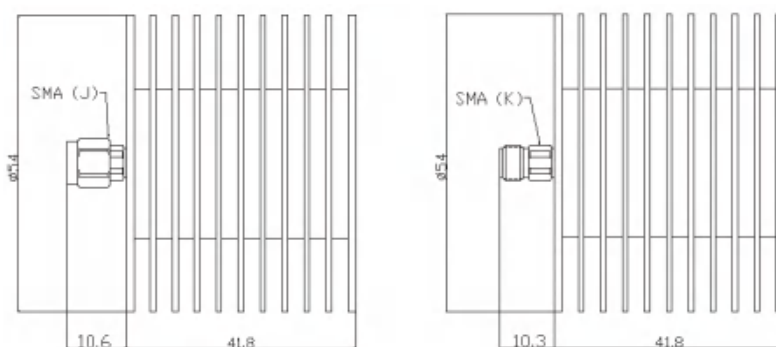
## 同轴负载 / Coaxial Terminations

### XFZ30-SMA 50 Ω 30W DC~26.5GHz

XFZ30-SMA 系列同轴负载平均功率 30W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ30-SMA series coaxial load average power 30W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                  |                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                           | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：镀青铜镀金 1.27 μ m              | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                             |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                |                                                                                          |
| RoHS              |                                                  |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ30-SMA          | DC-26.5                      | 1.30              |

平均功率：最大功率 30W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 3W  
峰值功率：最大功率 200W(最大 5 μs 脉宽，最大 10% 占空比)  
Average Power: maximum power 30W average to 25℃ ambient temperature, derated linearly to 3W @ 125℃  
Peak Power: maximum power 200W (Max. 5 μs pulse width, Max. 10% duty cycle)

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

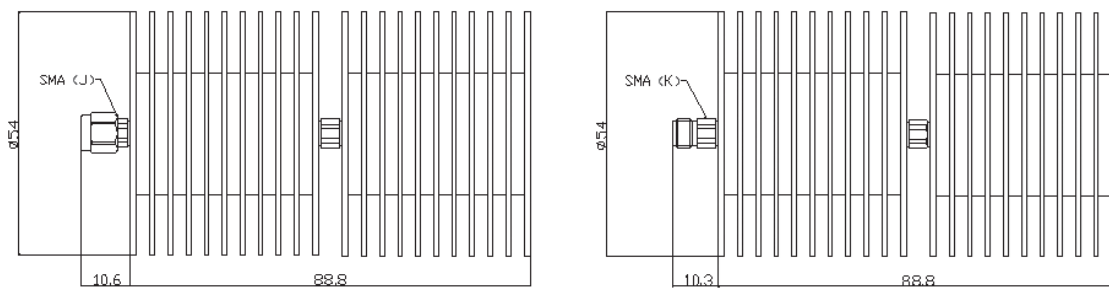
## 同轴负载 / Coaxial Terminations

### XFZ50-SMA 50 Ω 50W DC~26.5GHz

XFZ50-SMA 系列同轴负载平均功率 50W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ50-SMA series coaxial load average power 50W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                                   |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                      |                                                                                          |
| RoHS              |                                                        |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ50-SMA          | DC-26.5                      | 1.30              |

平均功率：最大功率 50W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 5W  
峰值功率：最大功率 200W( 最大 5 μs 脉宽，最大 10% 占空比 )  
Average Power: maximum power 50W average to 25℃ ambient temperature, derated linearly to 5W @ 125℃  
Peak Power: maximum power 200W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴固定衰减器 / Coaxial Fixed Attenuators

同轴固定衰减器适用于任何需要降低功率电平或进行电路匹配的场所，可定量吸收传输线中的能量，扩展功率量程，控制功率电平，并可配以小功率计，综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

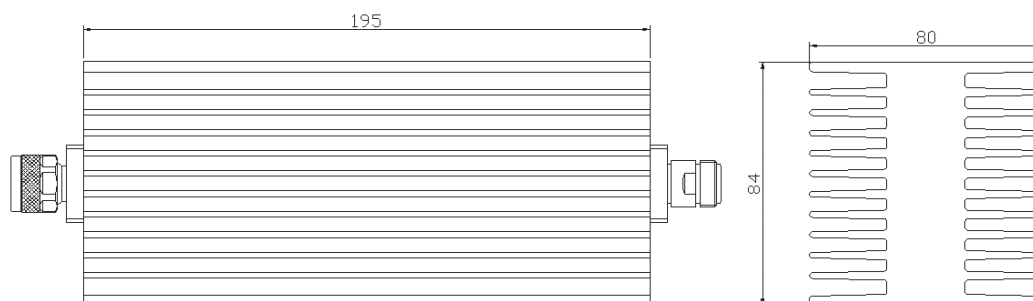
The coaxial fixed attenuator is suitable for any situation where the power level needs to be reduced or circuit matching. It can quantitatively absorb the energy in the transmission line, expand the power range, control the power level, and can be equipped with a small power meter, comprehensive tester or spectrum analyzer to accurately measure the power or spectrum of various rf microwave transmitters.

### XSJ100-N 50 Ω 100W DC~18GHz

XSJ100-N 系列同轴固定衰减器平均功率 100W，频率范围 DC~18GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ100-N series coaxial fixed attenuators have an average power of 100W and a frequency range of DC~18GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                  |                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                           | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m              | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                             |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                |                                                                                          |
| RoHS              |                                                  |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 20                                         | 30        | 40        |                   |
| XSJ100-N-XX        | DC-18                        | -1.5/+2.0                                  | -1.5/+2.0 | -1.5/+2.0 | 1.40              |

平均功率：最大功率 100W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 10W

峰值功率：最大功率 1000W (最大 5 μs 脉宽，最大 2% 占空比)

Average Power: maximum power 100W average to 25℃ ambient temperature, derated linearly to 10W @ 125℃

Peak Power: maximum power 1000W (Max. 5 μs pulse width, Max. 2% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

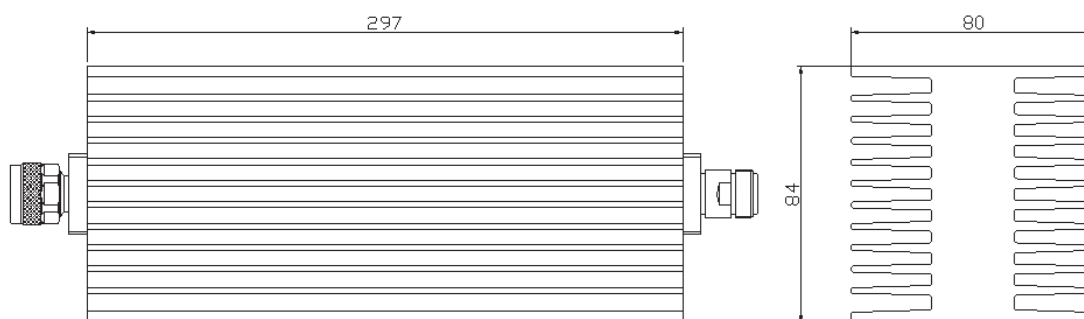
# 同轴固定衰减器 / Coaxial Fixed Attenuators

**XSJ200-N 50 Ω 200W DC~18GHz**

XSJ200-N 系列同轴固定衰减器平均功率 200W，频率范围 DC~18GHz。具有如下特征：体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ200-N series coaxial fixed attenuators have an average power of 200W and a frequency range of DC~18GHz. It has the following characteristics: small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

## 外形尺寸 (mm)/ Overall Dimensions



## 机械性能 / Mechanical Specifications

|                   |                                                                                                                                 |                                                                              |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                                                                                          | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m    Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μ m    Female: Beryllium Bronze Gold 50 micro-inches |                                                                              |
| 绝缘子 / Insulators  | PTFE                                                                                                                            |                                                                              |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                            |                                                                              |
| 重量 / Weight       | g                                                                                                                               |                                                                              |
| RoHS              |                                                                                                                                 |                                                                              |

## 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 衰减值及精度 Attenuation Value & Accuracy ( dB ) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|--------------------------------------------|-----------|-----------|-------------------|
|                    |                              | 20                                         | 30        | 40        |                   |
| XSJ200-N-XX        | DC-18                        | -2.5/+4.0                                  | -2.5/+4.0 | -2.5/+4.0 | 1.50              |

平均功率：最大功率 200W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 20W

峰值功率：最大功率 1000W( 最大 5 μs 脉宽，最大 10% 占空比 )

Average Power: maximum power 200W average to 25℃ ambient temperature, derated linearly to 20W @ 125℃

Peak Power: maximum power 1000W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按客户要求定制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴负载 / Coaxial Terminations

同轴负载主要用于吸收射频或微波系统的功率，可作为天线的假负载和发射机终端。也可以作为多端口微波器件如环行器、方向耦合器的匹配端口，从而保证特性阻抗得到匹配，进行精确测量。

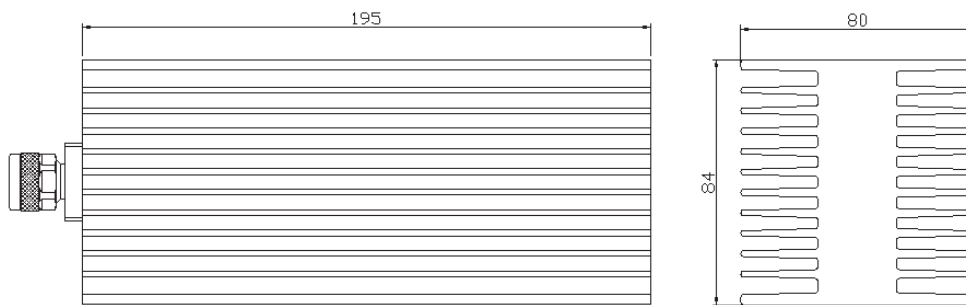
The coaxial load is mainly used to absorb the power of RF or microwave system and can be used as a false load of antenna and transmitter terminal. It can also be used as the matching port of multi-port microwave devices such as circulators and directional couplers to ensure the matching of characteristic impedance and accurate measurement.

### XFZ100-N 50 Ω 100W DC~18GHz

XFZ100-N 系列同轴负载平均功率 100W，频率范围 DC~18GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ100-N series coaxial load average power 100W, frequency range DC~18GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                  |                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                           | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：镀青铜镀金 1.27 μ m              | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                             |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                |                                                                                          |
| RoHS              |                                                  |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ100-N           | DC-18                        | 1.40              |

平均功率：最大功率 100W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 10W

峰值功率：最大功率 1000W (最大 5 μs 脉宽，最大 2% 占空比)

Average Power: maximum power 100W average to 25℃ ambient temperature, derated linearly to 10W @ 125℃

Peak Power: maximum power 1000W (Max. 5 μs pulse width, Max. 2% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ±2%。 All dimensions are in mm, with a tolerance of ±2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

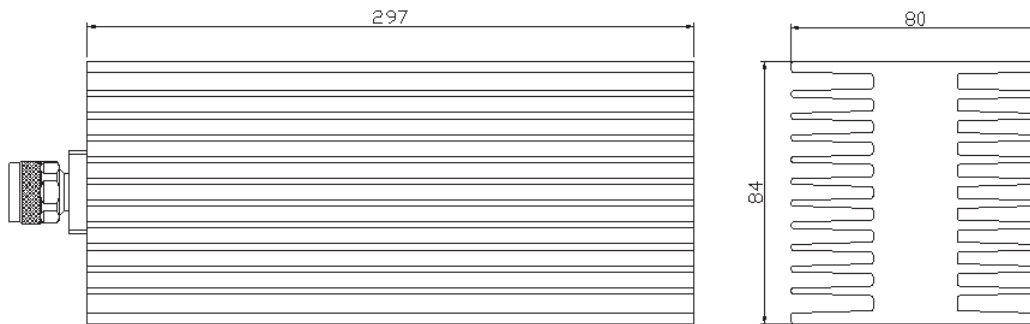
## 同轴负载 / Coaxial Terminations

### XFZ200-N 50 Ω 200W DC~18GHz

XFZ200-N 系列同轴负载平均功率 200W，频率范围 DC~18GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ200-N series coaxial load average power 200W, frequency range DC~18GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                   |                                                                                          |
|-------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                            | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m               | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                              |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                 |                                                                                          |
| RoHS              |                                                   |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ200-N           | DC-18                        | 1.50              |

平均功率：最大功率 200W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 20W  
峰值功率：最大功率 1000W( 最大 5 μs 脉宽，最大 10% 占空比 )  
Average Power: maximum power 200W average to 25℃ ambient temperature, derated linearly to 20W @ 125℃  
Peak Power: maximum power 1000W ( Max. 5 μs pulse width, Max. 10% duty cycle )

备注：

- 所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.
- 可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴固定衰减器 / Coaxial Fixed Attenuators

同轴固定衰减器适用于任何需要降低功率电平或进行电路匹配的场所，可定量吸收传输线中的能量，扩展功率量程，控制功率电平，并可配以小功率计，综合测试仪或频谱分析仪精确测量各种射频微波发射机的功率或频谱。

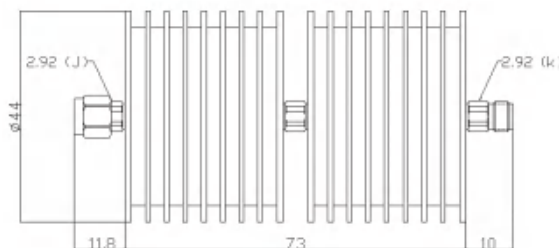
The coaxial fixed attenuator is suitable for any situation where the power level needs to be reduced or circuit matching. It can quantitatively absorb the energy in the transmission line, expand the power range, control the power level, and can be equipped with a small power meter, comprehensive tester or spectrum analyzer to accurately measure the power or spectrum of various rf microwave transmitters.

### XSJ20S-2.92 50 Ω 20W DC~40GHz

XSJ20S-2.92 系列同轴固定衰减器平均功率 20W，频率范围 DC~40GHz。具有如下特征：可双向通过功率 20W 信号，体积小，工作频带宽，驻波系数低，衰减值平坦，抗脉冲，抗烧毁能力强。

XSJ20-2.92 series coaxial fixed attenuators have an average power of 20W and a frequency range of DC~40GHz. It has the following characteristics: Can be two-way through the power 20W signal, small size, wide working frequency band, low standing wave coefficient, flat attenuation value, anti-pulse, anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                  |                                                                                          |
|-------------------|--------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                           | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m              | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                              |                                                                                          |
| 温度范围 / Temp Range | 储存（Storage）：-55℃ ~125℃ 工作(Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | g                                                |                                                                                          |
| RoHS              |                                                  |                                                                                          |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range (GHz) | 衰减值及精度 Attenuation Value & Accuracy (dB) |           |           | 最大驻波比<br>Max VSWR |
|--------------------|-------------------------------|------------------------------------------|-----------|-----------|-------------------|
|                    |                               | 20                                       | 30        | 40        |                   |
| XSJ20S-2.92-XX     | DC-40                         | -3.0/+3.0                                | -3.0/+3.0 | -3.0/+3.0 | 1.35              |

平均功率：最大功率 20W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 2W

峰值功率：最大功率 200W (最大 5 μs 脉宽，最大 10% 占空比)

Average Power: maximum power 20W average to 25℃ ambient temperature, derated linearly to 2W @ 125℃

Peak Power: maximum power 200W (Max. 5 μs pulse width, Max. 10% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ±2%。 All dimensions are in mm, with a tolerance of ±2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

## 同轴负载 / Coaxial Terminations

同轴负载主要用于吸收射频或微波系统的功率，可作为天线的假负载和发射机终端。也可以作为多端口微波器件如环形器、方向耦合器的匹配端口，从而保证特性阻抗得到匹配，进行精确测量。

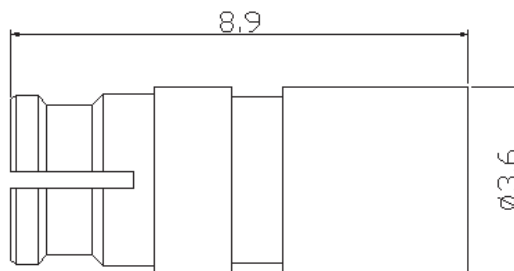
The coaxial load is mainly used to absorb the power of RF or microwave system and can be used as a false load of antenna and transmitter terminal. It can also be used as the matching port of multi-port microwave devices such as circulators and directional couplers to ensure the matching of characteristic impedance and accurate measurement.

### XFZ0.5-SMP 50 Ω 0.5W DC~26.5GHz

XFZ0.5-SMP 系列同轴负载平均功率 0.5W，频率范围 DC~26.5GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ0.5-SMP series coaxial load average power 0.5W, frequency range DC~26.5GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 铍青铜镀金 1.27 μm      Beryllium Bronze Gold 50 micro-inches                                                                          |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μm      Male: Gold-plated brass 50 micro-inches<br>阴：铍青铜镀金 1.27 μm      Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                               |
| 温度范围 / Temp Range | 储存 (Storage) : -55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                           |
| 重量 / Weight       | 5 g                                                                                                                               |
| RoHS              |                                                                                                                                   |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ0.5-SMP         | DC-26.5                      | 1.25              |

平均功率：最大功率 0.5W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.1W

峰值功率：最大功率 5W (最大 5 μs 脉宽，最大 1% 占空比)

Average Power: maximum power 0.5W average to 25℃ ambient temperature, derated linearly to 0.1W @ 125℃

Peak Power: maximum power 5W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注：

1、所有外形尺寸单位 mm，尺寸公差 ±2%。      All dimensions are in mm, with a tolerance of ±2%.

2、可按客户要求订制特殊频率范围和特殊衰减量。      Special frequency range and special attenuation can be customized according to customer requirements.

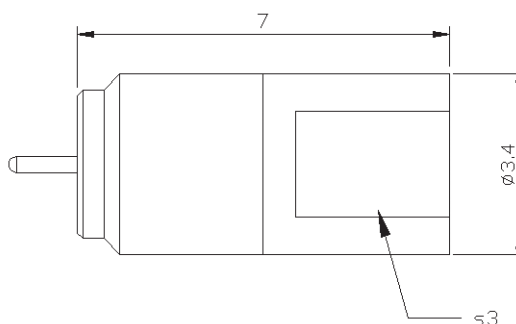
## 同轴负载 / Coaxial Terminations

### XFZ0.5-SSMP 50 Ω 0.5W DC~40GHz

XFZ0.5-SSMP 系列同轴负载平均功率 0.5W, 频率范围 DC~40GHz。具有如下特征: 工作频带宽, 驻波系数低, 抗脉冲, 抗烧毁能力强。

XFZ0.5-SSMP series coaxial load average power 0.5W, frequency range DC~40GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

### 外形尺寸 (mm)/ Overall Dimensions



### 机械性能 / Mechanical Specifications

|                   |                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 黄铜镀金 1.27 μm      Gold-plated brass 50 micro-inches                                                                                 |
| 内导体 / Pin         | 阳: 黄铜镀金 1.27 μm      Male: Gold-plated brass 50 micro-inches<br>阴: 铍青铜镀金 1.27 μm      Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PEI                                                                                                                                 |
| 温度范围 / Temp Range | 储存 (Storage): -55℃ ~125℃    工作 (Operating): -55℃ ~125℃                                                                              |
| 重量 / Weight       | 5 g                                                                                                                                 |
| RoHS              |                                                                                                                                     |

### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ0.5-SSMP        | DC-40                        | 1.30              |

平均功率: 最大功率 0.5W 对应的环境温度为 25℃, 当环境温度上升到 125℃ 时, 功率线性递减至 0.1W

峰值功率: 最大功率 5W (最大 5 μs 脉宽, 最大 1% 占空比)

Average Power: maximum power 0.5W average to 25℃ ambient temperature, derated linearly to 0.1W @ 125℃

Peak Power: maximum power 5W (Max. 5 μs pulse width, Max. 1% duty cycle)

备注:

1、所有外形尺寸单位 mm, 尺寸公差 ±2%。      All dimensions are in mm, with a tolerance of ±2%.

2、可按照客户要求定制特殊频率范围和特殊衰减量。Special frequency range and special attenuation can be customized according to customer requirements.

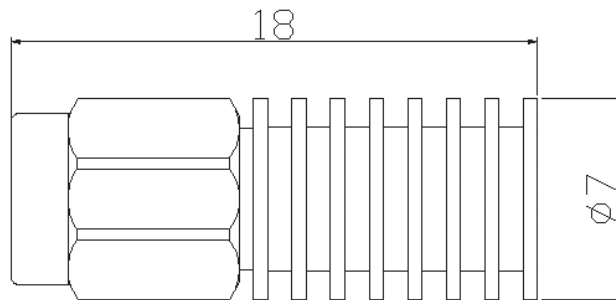
## 同轴负载 / Coaxial Terminations

### XFZ2-SSMA 50 Ω 2W DC~18GHz

XFZ2-SSMA 系列同轴负载平均功率 2W，频率范围 DC~18GHz。具有如下特征：工作频带宽，驻波系数低，抗脉冲，抗烧毁能力强。

XFZ2-SSMA series coaxial load average power 2W, frequency range DC~18GHz. It has the following characteristics: wide working frequency band, low standing wave coefficient, strong anti-pulse and anti-burn ability.

#### 外形尺寸 (mm)/ Overall Dimensions



#### 机械性能 / Mechanical Specifications

|                   |                                                        |                                                                                          |
|-------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------|
| 外壳 / Enclosure    | 连接器：不锈钢钝化<br>散热器：铝合金发黑                                 | Connector: Stainless Steel Passivation<br>Heat Sinks: Aluminum Black Anodize             |
| 内导体 / Pin         | 阳：黄铜镀金 1.27 μ m<br>阴：铍青铜镀金 1.27 μ m                    | Male: Gold-plated brass 50 micro-inches<br>Female: Beryllium Bronze Gold 50 micro-inches |
| 绝缘子 / Insulators  | PTFE                                                   |                                                                                          |
| 温度范围 / Temp Range | 储存 ( Storage ) : -55℃ ~125℃ 工作 (Operating): -55℃ ~125℃ |                                                                                          |
| 重量 / Weight       | 5 g                                                    |                                                                                          |
| RoHS              |                                                        |                                                                                          |

#### 电气性能 / Electrical Properties

| 型号<br>Model Number | 频率范围<br>Frequency Range(GHz) | 最大驻波比<br>Max VSWR |
|--------------------|------------------------------|-------------------|
| XFZ2-SSMA          | DC-18                        | 1.25              |

平均功率：最大功率 2W 对应的环境温度为 25℃，当环境温度上升到 125℃ 时，功率线性递减至 0.5W

峰值功率：最大功率 20W( 最大 5 μs 脉宽，最大 1% 占空比 )

Average Power: maximum power 2W average to 25℃ ambient temperature, derated linearly to 0.5W @ 125℃

Peak Power: maximum power 20W ( Max. 5 μs pulse width, Max. 1% duty cycle )

备注：

1、所有外形尺寸单位 mm，尺寸公差 ± 2%。 All dimensions are in mm, with a tolerance of ± 2%.

2、可按照客户要求订制特殊频率范围和特殊衰减量。 Special frequency range and special attenuation can be customized according to customer requirements.



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