



**SMA Fixed Attenuator, DC-27 GHz, 2 Watts  
For Cryogenic Application**

Rev 1

**Features**

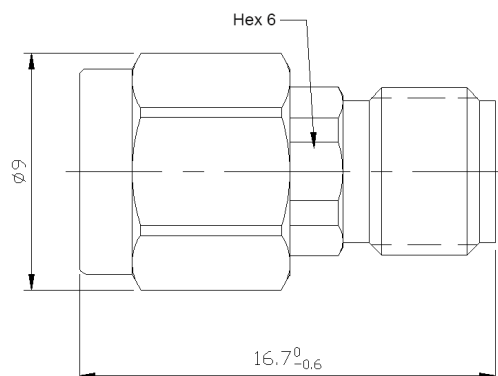
- Cryogenic Operation to < 4 K
- Field-Proven in Quantum Computing
- Precision attenuation & Low VSWR up to 27GHz
- Non-Magnetic and Nickel-Free Plating to Avoid Magnetic Noise
- Stable Attenuation Over Temp with Laser Trimmed Resistive Element

**Electrical**

<b>Impedance</b>	50 ohm				
<b>Frequency Range</b>	DC-27 GHz				
<b>VSWR</b>	1.3 max				
<b>Input Avg Power</b>	2W@ 25°C ambient, derating linearly to 0.2W at 100°C				
<b>Peak Power</b>	20W (5 micro-sec pulse width, 0.5% duty cycle)				
<b>Attenuation(dB)</b>	3	6	10	20	30
<b>Accuracy(dB)</b>	±0.7	±0.7	±0.7	±0.7	±0.7

**Mechanical & Environmental**

<b>Connector Body</b>	Gold plated beryllium copper
<b>Center Contact</b>	Gold plated beryllium copper for female and male contacts
<b>Substrate</b>	Aluminum nitride
<b>Resistor Material</b>	Thin Film
<b>Net Weight</b>	Approx 3g
<b>Operating Temperature</b>	4 K to +125°C

**Dimensions(mm)**




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### Model Description

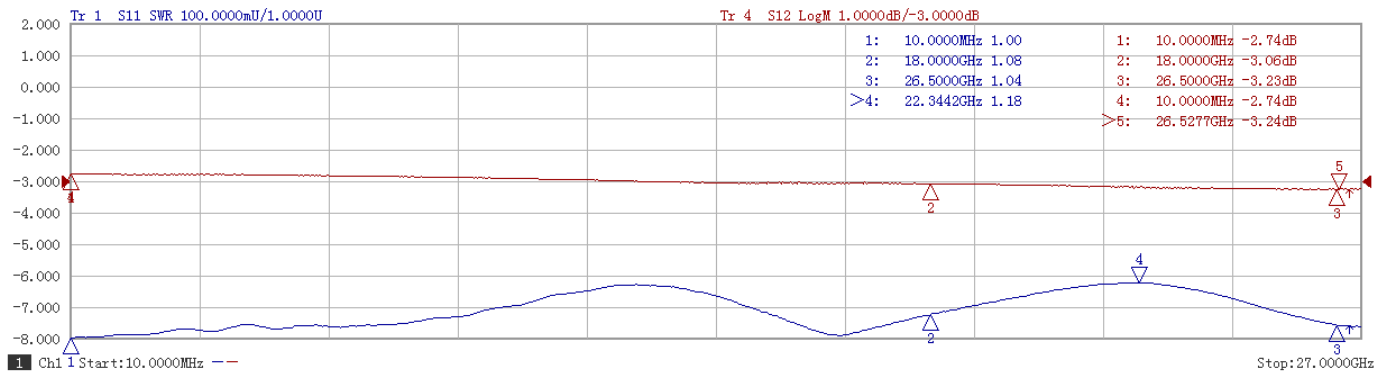
RCA27SC-XX

1.Code for connector configuration: A=female for two ends; B=male for two ends; C=female for one end and male for the other.

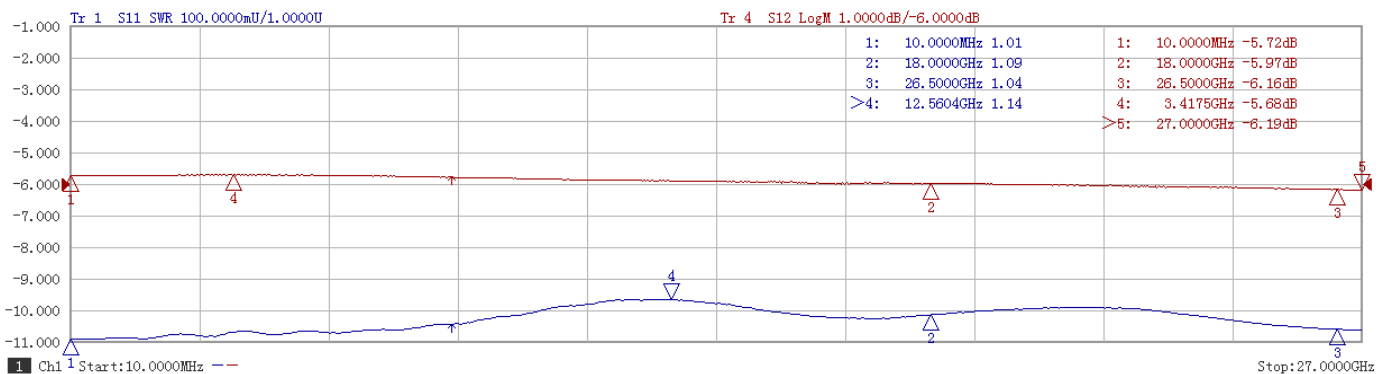
2.XX for dB value: 06=6dB,30=30dB

### Typical Test Data

#### 3dB



#### 6dB



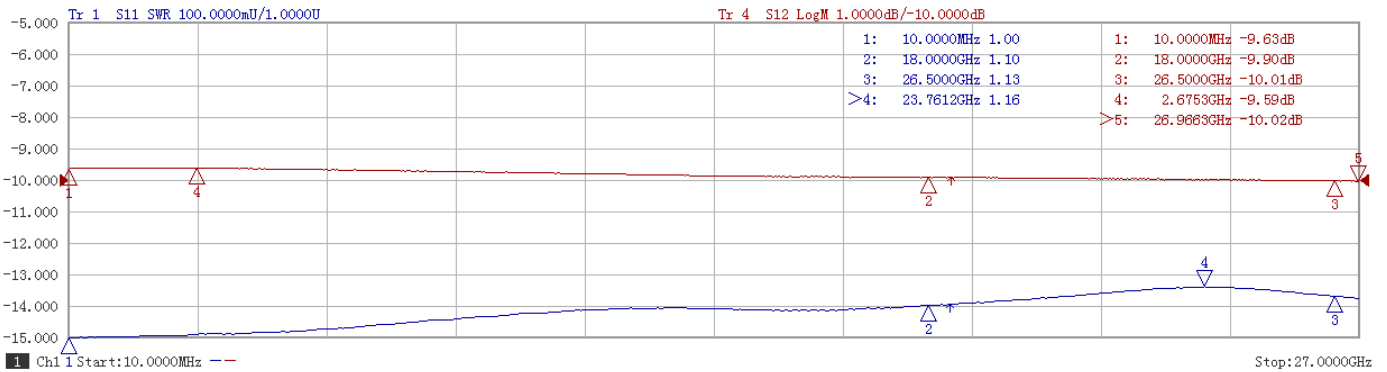


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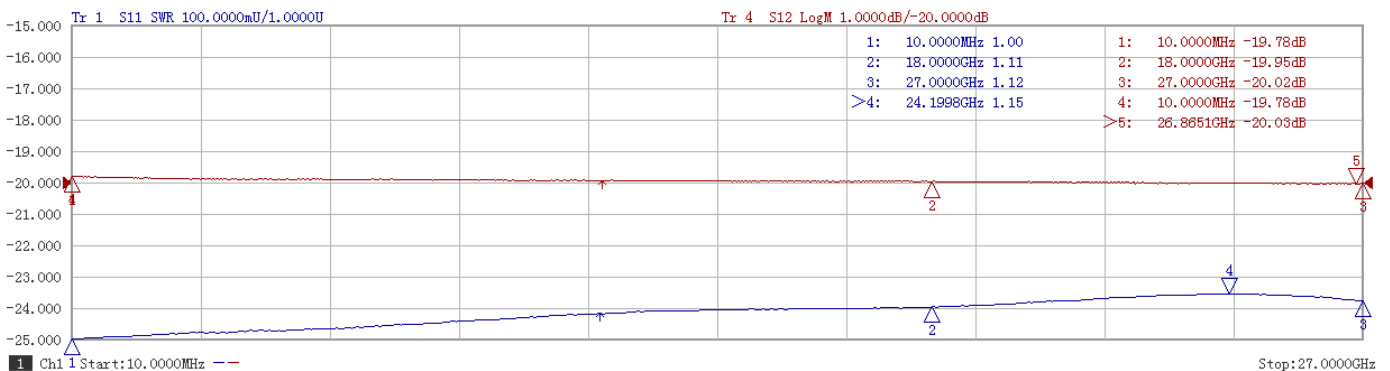
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### Typical Test Data

#### 10dB



#### 20dB



#### 30dB

