CRYOGENIC FIXED ATTENUATOR

20 dB SMP Cryogenic Fixed Attenuator

2 W | DC–18 GHz | 50 Ω

For compact cryogenic RF systems, high-density microwave assemblies, quantum computing applications, and dilution refrigerator signal chains.



FREQUENCY	POWER	IMPEDANCE
DC–18 GHz	2 W	50 Ω

- Suitable for cryogenic environments
- 20 dB nominal attenuation
- ±1.2 dB attenuation tolerance
- VSWR ≤ 1.45
- Compact SMP interface
- Non-magnetic option available

ELECTRICAL PERFORMANCE

Frequency Range	**DC–18 GHz**
Nominal Attenuation	**20 dB**
Attenuation Tolerance	**±1.2 dB**
VSWR (Max)	**1.45 : 1**
Impedance	**50 Ω**
Power Rating	**2 W**

MECHANICAL & MATERIALS

Connector Interface	**SMP-JK**
Body Material	**Brass, gold-plated**
Male Inner Contact	**Beryllium copper, gold-plated**
Female Inner Contact	**Beryllium copper, gold-plated**
Size	**Ø7.1 × 22.9 mm**
Format	**Compact SMP attenuator structure**

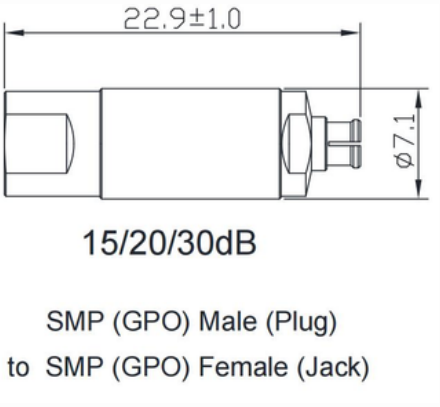
Typical Applications

Cryogenic RF systems, quantum computing applications, dilution refrigerator systems, and low-temperature microwave measurement chains.

P/N: VST-QU-SMP200202-18G

SMP Cryogenic Fixed Attenuator

CONSTRUCTION SPECIFICATION



DRAWING NOTES

Structure	**Inline SMP cryogenic fixed attenuator**
Body Format	**15/20/30 dB body format**
Length	**22.9 ± 1.0 mm**
Diameter	**Ø7.1 mm**

COMPLIANCE & CONSTRUCTION

Product Type	**SMP Cryogenic Fixed Attenuator**
Impedance	**50 Ω**
Compliance	**RoHS**
Configuration	**Non-magnetic option available**

ORDERING INFORMATION

PART NUMBER

VST-QU-SMP200202-18G

DESCRIPTION

20 dB SMP Cryogenic Fixed Attenuator, 2 W, DC–18 GHz, 50 Ω

TYPICAL USE

Higher signal reduction for compact cryogenic RF paths, quantum computing assemblies, dilution refrigerator signal chains, and RF path matching in space-constrained systems.

CUSTOMIZATION

Custom attenuation values, marking options, and non-magnetic configurations available on request.