CRYOGENIC FIXED ATTENUATOR

30 dB SMA Cryogenic Fixed Attenuator

2 W | DC–18 GHz | 50 Ω

Designed for cryogenic RF systems, low-temperature microwave test setups, quantum computing applications, and dilution refrigerator signal chains requiring high attenuation in compact SMA RF paths up to 18 GHz.



FREQUENCY	POWER	IMPEDANCE
DC–18 GHz	2 W	50 Ω

- 30 dB nominal attenuation
- ±0.8 dB attenuation tolerance
- VSWR ≤ 1.35
- Suitable for cryogenic environments
- Suitable for quantum computing applications
- Non-magnetic option available on request
- RoHS compliant

ELECTRICAL PERFORMANCE

Frequency Range	**DC–18 GHz**
Nominal Attenuation	**30 dB**
Attenuation Tolerance	**±0.8 dB**
VSWR Max	**1.35 : 1**
Impedance	**50 Ω**
Power Rating	**2 W**

MECHANICAL & MATERIALS

Connector Interface	**SMA-JK**
Body Material	**Brass, gold-plated**
Connector Outer Contact	**Brass, gold-plated**
Male Inner Contact	**Beryllium copper, gold-plated**
Female Inner Contact	**Beryllium copper, gold-plated**
Body Length	**25 ± 1 mm**
Across Flats	**5/16 HEX**

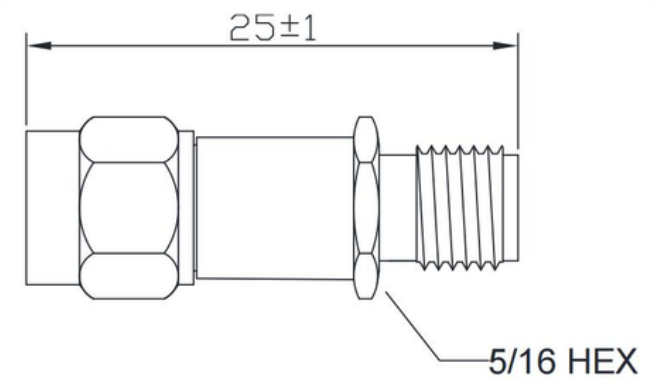
Typical Applications

Cryogenic RF systems, quantum computing applications, dilution refrigerator signal chains, low-temperature microwave measurement paths, and high-attenuation RF signal conditioning up to 18 GHz.

P/N: VST-QU-SMA300202-18G

SMA Cryogenic Fixed Attenuator

CONSTRUCTION SPECIFICATION



DRAWING NOTES

Structure	**Inline SMA cryogenic fixed attenuator**
Body Format	**15/20/30 dB body format**
Length	**25 ± 1 mm**
Across Flats	**5/16 HEX**

COMPLIANCE & CONSTRUCTION

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

ORDERING INFORMATION

PART NUMBER

VST-QU-SMA300202-18G

DESCRIPTION

30 dB SMA Cryogenic Fixed Attenuator, 2 W, DC–18 GHz, 50 Ω

TYPICAL USE

High signal attenuation for cryogenic test paths, quantum computing applications, dilution refrigerator signal chains, and low-temperature microwave measurement systems up to 18 GHz.

CUSTOMIZATION

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