CRYOGENIC FIXED ATTENUATOR

3 dB 2.92 mm Cryogenic Fixed Attenuator

2 W | DC–40 GHz | 50 Ω

Designed for cryogenic RF systems, low-temperature microwave test setups, quantum computing applications, and dilution refrigerator signal chains requiring compact 2.92 mm attenuation components up to 40 GHz.

FREQUENCY	POWER	IMPEDANCE
DC–40 GHz	2 W	50 Ω



- Suitable for cryogenic environments
- 3 dB nominal attenuation
- ±0.85 dB attenuation tolerance
- VSWR ≤ 1.40
- Suitable for quantum computing applications
- Non-magnetic option available
- RoHS compliant

ELECTRICAL PERFORMANCE

Frequency Range	**DC–40 GHz**
Nominal Attenuation	**3 dB**
Attenuation Tolerance	**±0.85 dB**
VSWR Max	**1.40 : 1**
Impedance	**50 Ω**
Power Rating	**2 W**

MECHANICAL & MATERIALS

Connector Interface	**2.92-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	**25.4 ± 0.5 mm**
Across Flats	**5/16 HEX**

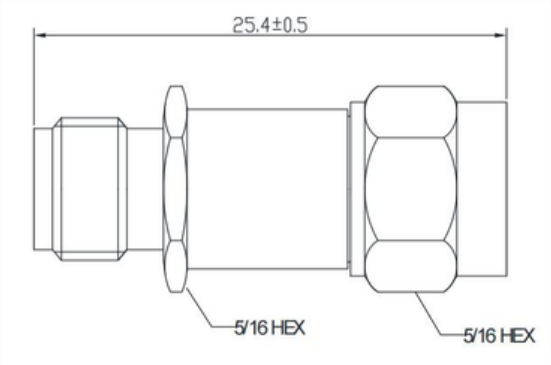
Typical Applications

Cryogenic RF systems, quantum computing applications, dilution refrigerator signal chains, low-temperature microwave measurement paths, and high-frequency RF attenuation networks up to 40 GHz.

P/N: VST-QU-292030202-40G

2.92 mm Cryogenic Fixed Attenuator

CONSTRUCTION SPECIFICATION



DRAWING NOTES

Structure	**Inline 2.92 mm cryogenic fixed attenuator**
Body Format	**1–6 dB body format**
Length	**25.4 ± 0.5 mm**
Across Flats	**5/16 HEX**
Connector Type	**2.92-JK**

COMPLIANCE & CONSTRUCTION

Product Type	**2.92 mm Cryogenic Fixed Attenuator**
Impedance	**50 Ω**
Compliance	**RoHS**
Configuration	**Non-magnetic option available on request**
Frequency Class	**DC–40 GHz**

ORDERING INFORMATION

PART NUMBER

VST-QU-292030202-40G

DESCRIPTION

3 dB 2.92 mm Cryogenic Fixed Attenuator, 2 W, DC–40 GHz, 50 Ω

TYPICAL USE

Light signal attenuation for cryogenic test paths, quantum computing applications, dilution refrigerator signal chains, and high-frequency microwave measurement systems up to 40 GHz.

CUSTOMIZATION

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