CRYOGENIC RF LOAD

SMA Male Cryogenic RF Load

2 W | DC–18 GHz | 50 Ω

For cryogenic RF systems, quantum computing applications, and dilution refrigerator signal chains.



FREQUENCY	POWER	IMPEDANCE
DC–18 GHz	2 W	50 Ω

- VSWR ≤ 1.25
- 50 Ω impedance
- DC–18 GHz operation
- Suitable for cryogenic environments
- Suitable for quantum computing applications
- Non-magnetic option available

ELECTRICAL PERFORMANCE

Frequency Range	**DC–18 GHz**
VSWR (Max)	**1.25 : 1**
Impedance	**50 Ω**
Power Rating	**2 W**
Connector Type	**SMA Male**
Temperature Range	**4°mK to ~+125°C**

MECHANICAL & MATERIALS

Insulator	**PEI/PTFE**
Inside the Connector	**Beryllium Copper, Gold**
Outer of the Connectors	**Brass, Gold**
Body Material	**Brass, Gold**
Length	**18.2 ± 0.5 mm**
Format	**Compact RF load structure**

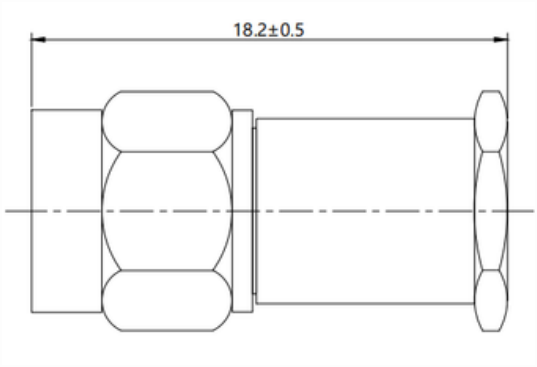
Typical Applications

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

P/N: VST-QU-SMA0202-18G

SMA Male Cryogenic RF Load

CONSTRUCTION SPECIFICATION



DRAWING NOTES

Structure	**Inline SMA male cryogenic RF load**
Length	**18.2 ± 0.5 mm**
Format	**Compact termination structure**
Application	**Suitable for cryogenic RF applications**

COMPLIANCE & CONSTRUCTION

Product Type	**Cryogenic RF Load**
Impedance	**50 Ω**
Insulator	**PEI/PTFE**
Configuration	**Non-magnetic option available**

ORDERING INFORMATION

PART NUMBER

VST-QF-SMAM0202-18G

DESCRIPTION

SMA Male Cryogenic RF Load, 2 W, DC–18 GHz, 50 Ω

TYPICAL USE

RF termination for cryogenic test paths, quantum computing applications, dilution refrigerator signal chains, and low-temperature microwave measurement setups.

CUSTOMIZATION

Custom marking and non-magnetic configurations available on request.