CRYOGENIC RF LOAD

SMP Female Cryogenic RF Load

1 W | DC–40 GHz | 50 Ω

For compact low-temperature RF systems, high-density microwave assemblies, quantum computing test setups, and space-constrained RF termination paths.



FREQUENCY	POWER	IMPEDANCE
DC–40 GHz	1 W	50 Ω

- VSWR ≤ 1.30
- 50 Ω impedance
- DC–40 GHz operation
- Suitable for cryogenic environments
- Suitable for quantum computing applications
- Non-magnetic option available on request

ELECTRICAL PERFORMANCE

Frequency Range	**DC–40 GHz**
VSWR Max	**1.30 : 1**
Impedance	**50 Ω**
Power Rating	**1 W**
Connector Type	**SMP Female**
Temperature Range	**4°mK to ~+125°C**

MECHANICAL & MATERIALS

Connector Type	**SMP Female**
Insulator	**PTFE**
Inside the Connector	**Beryllium copper, gold-plated**
Outer of the Connectors	**Beryllium copper, gold-plated**
Body Material	**Beryllium copper, gold-plated**
Length	**7.7 mm**
Diameter	**Ø3.9 mm**
Format	**Compact SMP RF load structure**

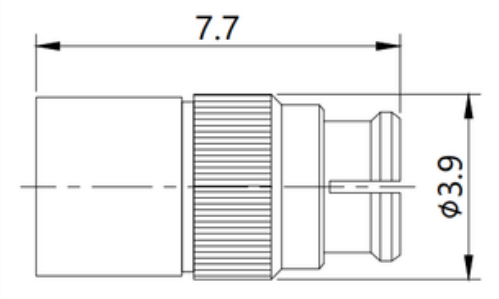
Typical Applications

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

P/N: VST-F-SMPF0102-40G

SMP Female Cryogenic RF Load

CONSTRUCTION SPECIFICATION



DRAWING NOTES

Structure	**Inline SMP female RF load**
Length	**7.7 mm**
Diameter	**Ø3.9 mm**
Format	**Compact SMP termination structure**
Application	**Suitable for compact low-temperature RF applications**

COMPLIANCE & CONSTRUCTION

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

ORDERING INFORMATION

PART NUMBER

VST-F-SMPF0102-40G

DESCRIPTION

SMP Female Cryogenic RF Load, 1 W, DC–40 GHz, 50 Ω

TYPICAL USE

Compact RF termination for low-temperature test paths, quantum computing test setups, high-density microwave assemblies, and space-constrained RF signal chains up to 40 GHz.

CUSTOMIZATION

Custom marking and non-magnetic configurations available on request.