

# Quarter Wave Surge Arrestor 4.3-10 male / female bulkhead, 690 to 2700 MHz

Surge arrestors are designed to protect wireless base stations, switching centers and transmission lines from the damaging effects of extreme high voltage surges caused by lightning strikes. The RFS Technologies lightning protection devices are designed and tested to the most demanding specifications. They are rated to protect against both direct and indirect multiple strikes in the harshest environments imaginable. Their rugged construction utilizes solid metal housing, and superior plating, which results in outstanding system protection and operating continuity.

## FEATURES / BENEFITS

- Superior IM performance for reliable long-term operation
- Excellent electrical performance, low VSWR, low insertion loss
- Waterproof to IP68
- · Totally maintenance free
- · Compliant to RoHS (EU 2002/95/EC) and CRoHS (China SJ/T11363-2006) i.e. usable on a global



**External Document Links** Installation Instruction

## Notes

incl. screw M8x12, spring washer 8 mm and washer 8 mm for installation of grounding cables or bus bars

# **Technical features**

### **STRUCTURE**

Product Line	Coaxial Cable Components
Product Type	Surge Arrestor
Surge Arrestor Type	Quarter Wave
Design	90° Stub
Coaxial Cable Type	Foam Dielectric, Ultraflexible Foam Dielectric, Radiating Cable
Connector Interface	4.3-10

## **MECHANICAL SPECIFICATIONS**

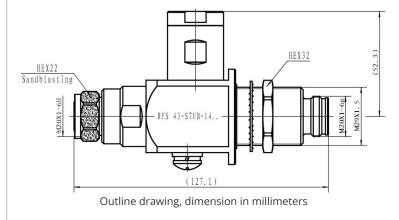
Configuration		4.3-10 male - 4.3-10 female (bulkhead)
Connector A		4.3-10 Male
Center Contact Connector A		Brass, silver plated
Outer Contact Connector A		Brass, Tri metal
Connector B		4.3-10 Female bulkhead (protected)
Center Contact Connector B		Brass, silver plated
Outer Contact Connector B		Brass, Tri metal
Body		Brass, Tri metal
Dielectric		PTFE
Gasket		Silicone
Sealing class		IP68
Mounting / Grounding		Bulkhead; Thread for grounding M8
Drill Hole Size	mm (in)	M8

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#### **ELECTRICAL SPECIFICATIONS** Frequency Range - MHz 690 - 2700 690-2700 MHz: 1.19 (21) **VSWR**, Return Loss VSWR (dB) 800-1000 MHz: 1.13 (24) 1700-2200 MHz: 1.13 (24) Insertion Loss, dB (Max) dΒ 0.10 3rd Order IM Product @ 2x20 dBc < -160 Watts Surge current handling capability mult. 25kA, Pulse 8/20 µs Residual pulse 5mJ typically (test pulse 20 kA Pulse 8/20 µs) **Residual Voltage** 100V (test pulse 20 kA Pulse 8/20 μs) **Average Power** 1.8kW @ 1 GHz (at 20°C, sea level, VSWR 1.0) **Peak Power** kW 40kW (at 20°C, sea level, VSWR 1.0) **TEMPERATURE SPECIFICATIONS Operation Temperature** °C (°F) -45 to 85 (-49 to 185) **ACCESSORIES Spare Part / Useful Accessories** GW-16/20 : Grounding Wire Kit **PACKAGING INFORMATION Package Quantity** 1



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