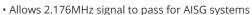
# Hybrid Quarter Wave Surge Arrestor 7-16 DIN female - female bulkhead, 698 to 2700 MHz

This 7-16 DIN style hybrid quarter wave surge arrestor with gas capsule for high-power and low IM application is foreseen for bulkhead mounting or in-line arragement with grounding wire connection (not included) via M8 thread.

Surge arrestors are designed to protect wireless base stations, switching centers and transmission line from the damaging effects of extreme high voltage surges caused by lightning strikes. Lightning strikes, even on grounded systems, can implant crushing voltages on RF transmission lines, creating voltage spikes on the center conductor of coaxial cable and putting the network out of commission. These RFS 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

Their rugged construction utilizes solid metal housings, spring bronze contacts and superior plating, which results in outstanding system protection and operating continuity. FEATURES / BENEFITS



- Broadband operation DC and RF (698-2700 MHz)
- DC continuity on center conductor for reliable operation (DC pass)
- Multiple strike protection provides current handling capability of 20 kA
- Replaceable gas capsules for easy maintenance
- Outstanding VSWR and IM performance
- Water resistant to IP67 standards (mated)
- Reverse installation possible without performance impact



7F7FB-HYB90-02

### Technical features

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Product Line	Coaxial Cable Components
Product Type	Surge Arrestor
Surge Arrestor Type	Hybrid Quarter Wave
Design	90° Stub
Coaxial Cable Type	Foam Dielectric, Ultraflexible Foam Dielectric, Radiating Cable
Connector Interface	7-16 DIN

## **MECHANICAL SPECIFICATIONS**

Configuration	Bulkhead
Connector A	7-16 DIN Female
Center Contact Connector A	Brass, silver plated
Outer Contact Connector A	Brass, Tri metal
Connector B	7-16 DIN Female
Center Contact Connector B	Brass, silver plated
Outer Contact Connector B	Brass, Tri metal
Body	Brass, Tri metal
Dielectric	PTFE
Gasket	Silicone rubber
Mounting / Grounding	Bulkhead; Thread for grounding M8

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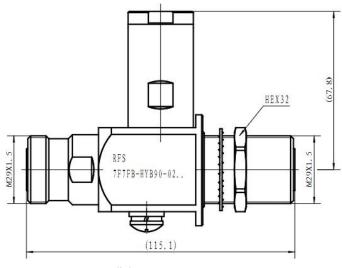
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#### **ELECTRICAL SPECIFICATIONS** Frequency Range - MHz 698 - 2700 698 - 725 MHz: 1.25 (19.1) 725 - 800 MHz: 1.20 (20.8) **VSWR**, Return Loss VSWR (dB) 800 - 2675 MHz: 1.18 (21.7) 2675 - 2700 MHz: 1.25 (19.1) Insertion Loss, dB (Max) dΒ 0.10 3rd Order IM Product @ 2x20 dBc -160 Watts **Power handling** 2.7 kW@698, 1.3 kW@2700 (at 20°C, sea level, VSWR 1.0) Surge current handling 20 kA, 8/20 μs capability **Residual pulse** <350μJ (test puls 4kV 1.2/50μs) **TEMPERATURE SPECIFICATIONS**

Operation Temperature	°C (°F)	-45 to 85 (-49 to 185)
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### **PACKAGING INFORMATION**

Package Quantity 1



All dimensions are in mm;

## **External Document Links**

Installation Instruction

Notes

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