

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

### Product Description

This 7-16 DIN style hybrid quarter wave surge arrestor with gas capsule for high-power and low IM application is with bulkhead mounting using a screw and bracket. 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 imaginable. Their rugged construction utilizes solid metal housings, spring bronze contacts and superior plating, which results in outstanding system protection and operating continuity.



7F7FB-HYB90-02

### Features/Benefits

- Allows 2.176MHz signal to pass for AISG systems
- 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

### Technical Specifications

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
Configuration	Bulkhead
Frequency Range - MHz	698 - 2700
Minimum Return Loss (max. VSWR), dB (VSWR)	19.1 (1.25:1) @ 698 - 725 MHz 20.8 (1.20:1) @ 725 - 800 MHz 21.7 (1.18:1) @ 800 - 2675 MHz 19.1 (1.25:1) @ 2675 - 2700 MHz
Insertion Loss, dB (Max)	0.10
3rd Order IM Product @ 2x20 Watts, dBc	<-160
Surge current handling capability	20 kA, 8/20 μs
Connector A	7-16 DIN Female
Center Contact Connector A	Copper Alloy, silver plated
Outer Contact Connector A	AL alloy, copper alloy /CuZnSn plated
Connector B	7-16 DIN Female
Center Contact Connector B	Copper Alloy, silver plated
Outer Contact Connector B	AL alloy, copper alloy /CuZnSn plated
Body	Copper alloy, CuZnSn plated
Dielectric	PTFE
Gasket	Silicone
Mounting / Grounding	Bulkhead; Thread for grounding M8
Spare Part / Useful Accessories	Gas Capsule 90V
Package Quantity	1

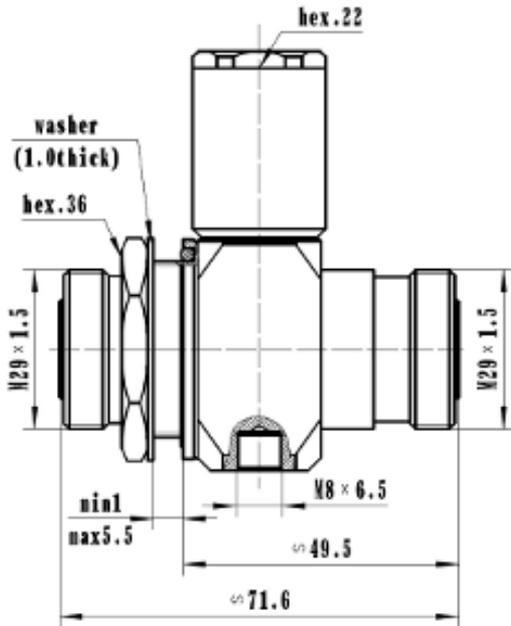
### Notes

### Other Documentation



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Installation Instruction: [2800138-a.pdf](#)



All dimensions are in mm; tolerances according to ISO 2768 m-H

All information contained in the present datasheet is subject to confirmation at time of ordering