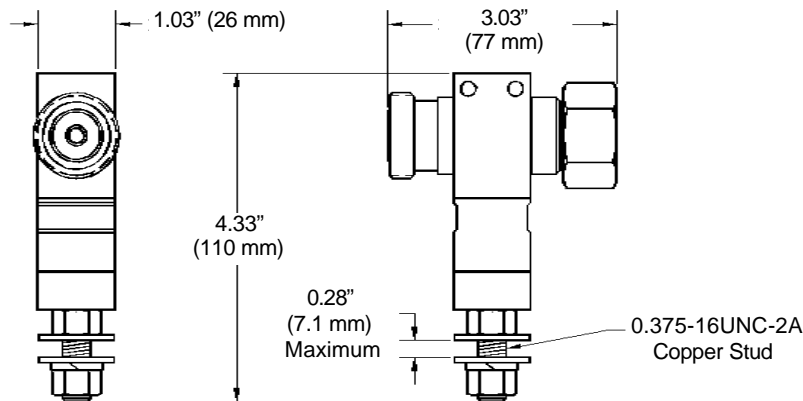


Connector and Surge Protector Specifications for APT-DFDM-WB 7-16 DIN-Female to 7-16 DIN-Male Premium Surge Protector, 800 - 2500 MHz



Characteristics

General

| | | |
|---------------------|----------------------|----------------------|
| Interface Type | 7-16 DIN-Female | 7-16 DIN-Male |
| Interface Standards | IEC 169-4, DIN 47223 | IEC 169-4, DIN 47223 |
| Pin Depth, min/max | 2.07/1.77 mm | 1.77/1.47 mm |

Electrical

| Parameter | Value | Test Method |
|--|---|---|
| Mating Pin Impedance | 50 Ohms | Calibrated vector network analyzer |
| Return Loss, minimum | 20.83 dB (800 - 2500 MHz) | Calibrated vector network analyzer |
| Insertion Loss | Less than 0.05 dB | Calibrated vector network analyzer |
| Impulse Discharge Current | 50 kA | 8/20 waveform per IEEE C62.41-1991 |
| Multiple Strike Capability | Subjected to over 100 strikes without any degradation | 50kA, 8/20 waveform per IEEE C62.41-1991 |
| Intermodulation Distortion | -120 dBm (160 dBc) | Measured using two 10 W (+40 dBm) carriers |
| Maximum Average Power (800 - 2500 MHz) | 3.0 kW | Calibrated RF transmitter |
| Throughput Energy | Less than 25 μ J | Measured at 2kA peak impulse current per IEEE C62.41-1991 |

Mechanical

| | | |
|------------------------|---------------|-------------------------------|
| Weight, lbs (kg) | 1.2 (0.55) | |
| Inner Conductor Finish | Silver Plated | QQ-S-365 D, type III, grade A |
| Outer Conductor Finish | Silver Plated | QQ-S-365 D, type III, grade A |

Environmental

| | |
|-----------------------|-------------------|
| Operating Temperature | -40° C to +150° C |
| Storage Temperature | -40° C to +100° C |

The APT-DFDM-WB surge arrester is a weatherproof and watertight device which has been designed and tested to the following specifications:

| Test | Test Specification |
|------------------------|--|
| Thermal Shock | MIL-STD-202, Method 107, Condition A-1, -55° C to +85° C |
| Moisture Resistance | MIL-STD-202, Method 106 |
| Sealing Test | IEC 68-2-17 (Immersion - 1 meter of water, 24 hours) |
| Corrosion (Salt Spray) | MIL-STD-202, Method 101 |
| Vibration | MIL-STD-202, Method 204, Condition D (20g, 10 - 2000 Hz) |
| Mechanical Shock | MIL-STD-202, Method 213B, Condition C |