

#### 75 $\Omega$ F Lightning Arrestors with performance to over 3.0 GHz



#### Features:

SWR

- + Frequency to 3.0 GHz
- + DC pass Ability
- Multiple Strike Capability
- + 20kA of Surge Protection
- Rugged and Waterproof
- Bi-directional Protection

100 m /

→ Compatible with RG-6 cable

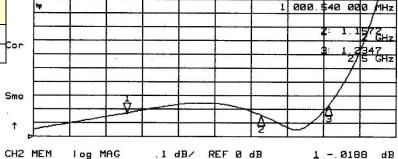
## **RF Specifications**

Nominal Impedance – 75Ω

Model	Frequency (GHz)	VSWR	Insertion Loss (dB)	CH1	MEM
PTC-F03	dc - 2.5	1.20 typ	0.15 typ	_	
	2.5 – 3.0	1.35 typ	0.50 max	Cor	-

→ Through Current: 3A Max at 48Vdc max

♣ RF Power: 25W maximum

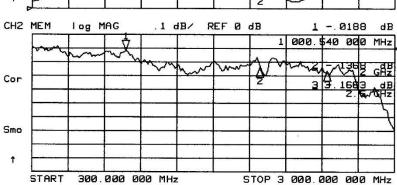


REF 1

#### Transient Specifications<sup>1</sup>

(1.2X50μs Voltage / 8X20μs Current waveform)

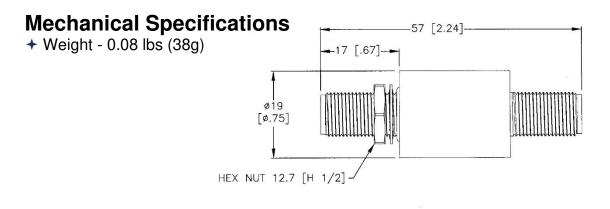
- Gas Discharge Tube 90V
- Maximum Transient 20kA
- → Multiple Strike 10kA 10x
- Let through 600Vpk/300μJ Input: 6kV/3kA

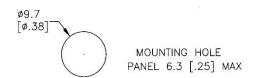


**Typical RF Performance** 

1: 1.1727







# **Environmental Specifications**

Temperature Range	-40°C to +70°C	
Salt Fog	MIL-STD-202 Method 101D / Condition A (35°C/96 hrs)	
Immersion	MIL-STD-202 Method 104A / Condition B (65°C to 25°C w/NaCl – 2	
Moisture Resistance	MIL-STD-202 Method 106G (65 °C/98% RH condensing/240 hrs)	
Temperature Shock	MIL-STD-202 Method 107D / Condition B-1 (25 cycles -65°C to +125°C)	
Life (Elevated Temperature)	MIL-STD-202 Method 108A / Condition A (96 hours at 100°C)	
<b>Dust and Waterproof Rating</b>	IP67 (dust-tight and water proof 30min / 1 m)	
Vibration	MIL-STD-202 Method 204D / Condition D (10Hz-2kHz 0.06"DA/20g)	
Mechanical Shock	MIL-STD-202 Method 213 / Condition A (50g/11ms ~24")	

#### **Material and Finish**

Component	Material	Finish	
Outer Parts	Brass	Tin or Nickel	
Center Contact	BeCu	Silver	
Insulator	Polymer	-	

Compatible with ANSI/SCTE 01 1996R2001



Shown with Optional Bracket (P/N 782-0009)

## **Ordering Model Number**

Model Number	Connectors	Frequency	Protection	
PTCF-03	F female (bulkhead) to F female (75 Ohm)	dc to 3.0 GHz	90V	