

DC Pass High RF Power Surge Arrestor with 7/16DIN connectors 0.82 – 2.2GHz



- + Passes dc current
- → 50X The Industry Life Expectancy
- Maintenance Free
- **★ Excellent RF Performance**
- >80kA Surge Capability
- Rugged and Waterproof
- → Bi-directional Protection
- High RF Power and Low PIM

RF Specifications

Nominal Impedance – 50 Ω

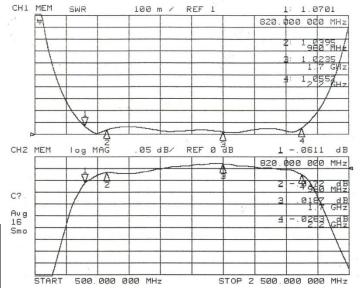
Frequency	0.82 – 2.2GHz		
RF Power	2 kW rms / 25 kW peak		
Return Loss	-32dB typ	-23.2dB min	
VSWR	1.05:1 typ	1.15:1 max	
Insertion Loss	0.05dB typ	0.10dB max	
PIM (2x43dBm)	> -150dB (3 rd order)	> -173dB (5 th order)	

Through Current: 65V / 20 A Max

Transient Current Protection

Transient Current*	Strikes	PGT Status	Equipment Status
120kA	1	Replace	Protected
80kA	1	Operational / Replace	Protected
60kA	10	Operational	Protected
30kA	50+	Operational	Protected

^{* 8}x20µs current waveform

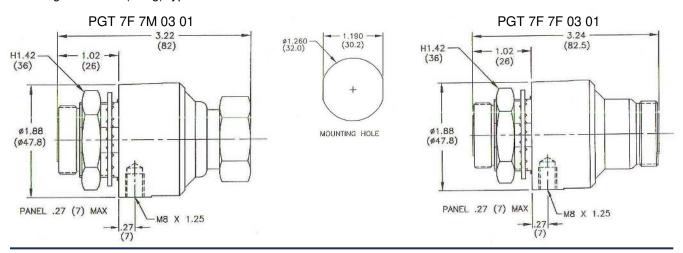


Typical VSWR and Insertion Loss



Mechanical Specifications

→ Weight: 0.8 lbs. (360g) typical



Environmental Specifications

Temperature Range	-40°C to +90°C	
Salt Fog	MIL-STD-202 Method 101D / Condition B (35°C/96 hrs)	
Immersion	MIL-STD-202 Method 104A / Condition A (65°C to 25°C w/NaCl – 2 cycles)	
Moisture Resistance	MIL-STD-202 Method 106E (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)	
Dust and Waterproof Rating	IEC529 IP68 (dust-tight and water proof 24 hrs / 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	Guardplate™
Center Contact	Brass / Bronze	Silver
Insulator	PTFE	
Gasket	Si Rubber	

Guardplate™ is an alloy finish with the PIM and conductivity of Silver and the durability and antitarnish properties of Nickel.

Transient Performance

Throughput Voltage		
600Vpk / 350μJ		
(6kV / 3kA impulse energy into 50Ω)		
DC Current Performance		
65Vdc / 15Adc maximum at 5mV drop maximum		

Part Number

