

COMPACT DC BLOCK LIGHTNING & EMP PROTECTOR 500 MHz to 2 GHz



Features:

- Compact Size
- Wide Band
- Reduced Let-through Energy
- + 10 kA Surge Protection
- + TNC to SMA Connectors
- Rugged and Weatherproof

RF Specifications

- Nominal Impedance: 50Ω
- Frequency Range: 500 MHz to 2 GHz
- RF Performance:

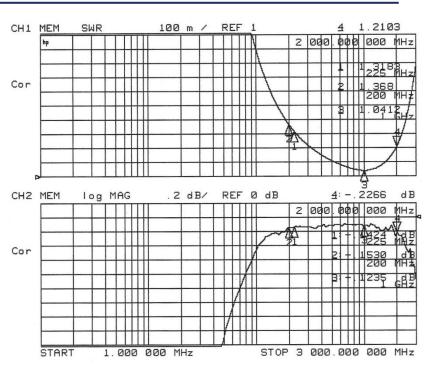
MHz	500	1000	2000
Ins Loss	0.07	0.10	.2dB
VSWR	1.10	1.10	1.2
RF _{CW}	35	30	25

RF power at VSWR = 1.0, sea level and 50° C.

Transient Specifications

(1.2X50µs Voltage / 8X20µs Current waveform)

- Maximum Transient: 10 kA_{pk}
- + Let Through: See Voltage Protection Table

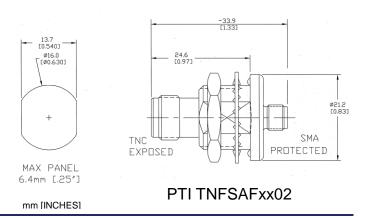


Typical VSWR and Insertion Loss



Mechanical Specifications

- + Weight: 0.06 pounds typ / 28g typ
- Mounting Torque: 80 inch pounds (9 N-m)



Material and Finish

Component	Material	Finish
Outer Parts	Brass	Nickel
Center Contact	BeCu	Gold
Insulator	PTFE	
Gasket	SI Rubber	

Protection Voltage

	Protection Voltage	Voltage Code ¹	RF Power (W _{cw}) ²	Peak Power (W)	Let-through (V _{pk} / μJ) ³
	150	15	35	200	100 / 4
	350	35	35	500	140 / 12
¹ Use the voltage code in the part number					

² at 500 MHz, derated at higher frequencies

 3 Input is 6kV @ 1.2x50 $\mu s/$ 3kA @ 8x20 $\mu s,$ output into 50 Ω

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 25oC 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	nd 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")	

PTI TNF SAF xx 02 Voltage Code, 15 or 35 SAF is SMA Female Connector (Protected) TNF is TNC Female Bulkhead Connector (Exposed) PTI - dc Block Family Product