

RF Surge Protector for High Altitude Electromagnetic Pulse (HEMP) and Electromagnetic Pulse (EMP) Protection Applications

COTS product that meet MIL-STD 188-125-1, MIL-STD 188-125-2, & MIL-STD-461 standards. Custom versions are available, please contact NexTek or local representative.

- High-Speed Protection Design
- Ultra-Low Let-Through Energy
- Meet MIL-STD Requirements for EMP
- Type N Connectors
- 2-30 MHz Pass
- Tested and Verified Design



Transient Specifications

	E1 (20x500nsec) - Input Current Levels	15A, 1000A, 5000A	
MIL-STDs 188-125-1 and	Peak Response Current Residuals (20x500nsec)	<8.5A	
188-125-1 and	Peak Rate of Rise 20x500nsec (A/s)	<4x10^9	
100 110 1	Root Action 20x500nsec ((A-(sec)^1/2)	<1.85x10^-3	
MIL-STD 461	CS115 & CS116 (1MHz, 30MHz, 100MHz) Survivability	<100V @ 100MHz	
IEC 61000-4-5	Max Surge Current (8x20μs)	60kA	
IEC 01000-4-5	Protection (Let-Thru) Voltage (8x20μs) @ 3kA	<5V	

RF Bands and Performance

Frequency Range:	2-30 MHz 1.1:1 0.1dB		
VSWR (Max):			
Insertion Loss (Max):			
RF Power (Max):	600W cw		

Environmental Specifications

Temperature Range	-50°C to +85°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 -55°C to +100°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

Body Material	Aluminum		
Body Finish	Nickel		
Connector Material	Brass		
Connector Finish	Nickel		
Center Pin Material	BeCu		
Center Pin Finish	Gold		
Watertight	IP68		

Part Number Configuration

Series	Туре	Surge Conn	Surge Gender	Protected Conn	Protected Gender	Freq	Polarity	Voltage	Package
FP	Η	Ν	F	N	F	BA	0	00	-B

Connector Types: S – SMA, N – Type N, T – TNC

Connector Genders: F - Female, M - Male

DC Polarity (for DC Pass only): P - Positive (+), N - Negative (-)

Package Drawing

