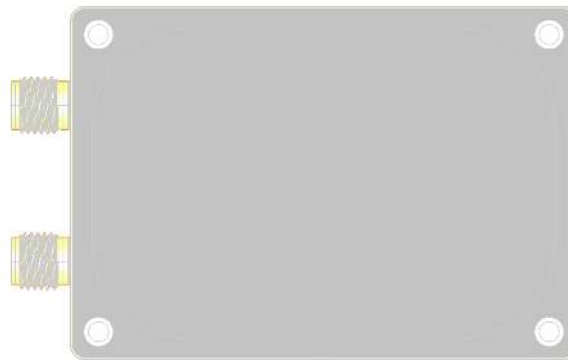


### RF Surge Protector for High Altitude Electromagnetic Pulse (HEMP) and other Electromagnetic Pulse (EMP) Protection Applications

COTS product that meets 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
-  Tested and Verified Designs
-  SMA to SMA Connectors
-  10-100MHz, and 900-2200MHz Pass Bands
-  Ideal for L-Band SATCOM Applications
-  Tested and Verified Design



### Transient Specifications

MIL-STDs 188-125-1 and 188-125-2	E1 (20x500nsec) - Input Current Levels	5000A
	Peak Response Current Residuals (20x500nsec)	<1A (Levels 1, 2, 3 & 4) & <0.1A
	Peak Rate of Rise 20x500nsec (A/s)	<1x10 <sup>7</sup>
	Root Action 20x500nsec ((A-(sec) <sup>1/2</sup> )	1.6x10 <sup>-3</sup>
MIL-STD 461	CS115 & CS116 (1MHz, 30MHz, 100MHz) Residuals	<35V
IEC 61000-4-5	Max Surge Current (8x20µs)	10kA
	Protection (Let-Thru) Voltage (8x20µs) @ 3kA	<20V

### RF Bands and Performance

Frequency Identifier	Frequency Range	Max VSWR	Max IL
BE (Dual Band)	10MHz-100MHz	1.1	0.1
	820MHz-2.2GHz	1.2	0.2

### Additional Specifications

DC Voltage Rating:	24V @ 2A
RF Power Rating:	20dBm in L-Band (900-2200MHz)

### 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 85°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	Stainless steel
Connector Finish	Nickel
Center Pin Material	BeCu
Center Pin Finish	Gold
Watertight	IP68

### Part Number

Series	Type	Surge Conn	Surge Gender	Protected Con	Protected Gender	Freq	Polarity	Voltage	Package
FP	H	S	F	S	F	BE	P	24	-E

Connector Types: S – SMA

Connector Genders: F – Female, M – Male

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

