

Multistage Surge Protector for RTCA DO-160 Applications

- Meets DO-160G Section 22, Indirect Lightning
- Including All Waveforms and Test Levels
- High-Speed Protection Designs
- Ultra-Low Let-Through Energy
- Tested and Verified Design
- Meets MIL-STD Environmental Requirements
- IPC-610 and J-STD 001 Compliant
- SMA Connectors
- 🔁 50 Ω



Transient Specifications

RTCA/DO-160	INPUT LEVEL (EXPOSED)	WAVEFORM	LET THRU TYPICAL** (PROTECTED)
WF3	600V/24A	1 MHz	<10V
	300V/60A (PIN)	10 MHz	<25V
WF4	300V/60A	6.4 x 69	<5V
WF5A	300V/300A	40x120	<5V
*	±4kA/2kA*	1.2x50/8x20	<25V

* PER IEC 61000-4-5

** INTO 50-OHM LOAD



RF Specifications

Frequency Band	10 – 80 MHz and 900 – 2400 MHz
VSWR	1.4:1 at 10 – 80 MHz and 900 – 2400 MHz
Insertion Loss	0.3 dB 10 – 80 MHz and 0.4 dB 900 – 2400 MHz
Power (Max)	6dBm at 10 – 80 MHz; 20dBm at 900 – 2400 MHz

Environmental Ratings

Temperature Range	-55°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	ust 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

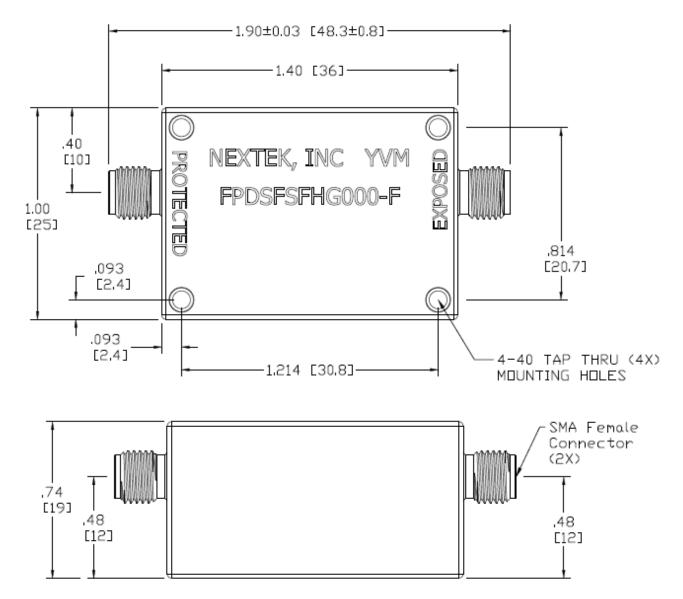
	-F
Body Material	6061 Aluminum
Body Finish	Conversion Coated
Connectors Material	18-8 Stainless Steel
Connector Finish	Passivated
Center Pin Material	BeCu
Center Pin Finish	Gold
Watertight w/ Mated Connectors	IP67

P/N Configuration

Series	Туре	Surge Conn	Surge Gender	Protected Conn	Protected Gender	Freq	Polarity	Voltage	Package
FP	D	S	F	S	F	HG	0	00	-F



Outline Drawing



Weight	1.0 oz. (30 grams)
Mounting	4x Thru Holes; 4-40 Mounting Screws Should
	Extend at Least 5/16" (8mm) into Box; 2-56 or M2
	Screws Can Pass Through These Holes for
	Mounting Purposes