Product Specification
FPDSFSFHE000-E

RF Surge Protection 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
- TNC, SMA, 2.92
- 10-100MHz, 900-2200MHz
- Tested and Verified Design
- Meets MIL-STD Environmental Requirements
- IPC-610 and J-STD 001 Compliant
- Material Traceability and Certification

Transient Specs

RTCA/DO-160 Waveforms – Pin or Cable Bundle	1, 2, 3, 4, 5, and 5A
RTCA/DO-160 Current Levels	Up to 2000A Input Current
RTCA/DO-160 Voltage Levels	Up to 3200V Input Voltage
RTCA/DO-160 Let thru Voltages:	<60V*
Max Surge Current IEC 61000-4-5 8x20usec:	5k-50kA+ (housing and circuit dependent)
Protection let-thru voltages (8x20usec):	<60V* @3kA

Additional Specifications

RF Power (Max):	37dBm (5W)
Mechanicals:	5 Housing Configurations (-A, -B, -C, -D, -E)

Environmental Ratings

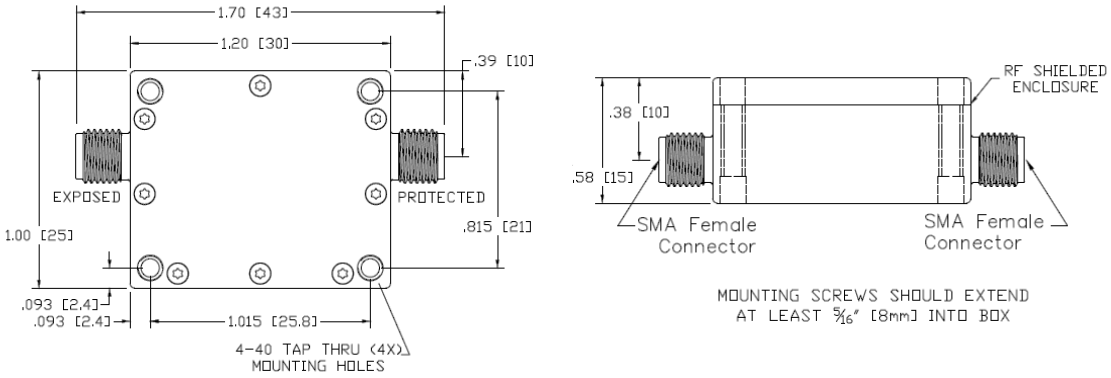
Temperature Range	-50°C to +85°C
Salt Fog	MIL-STD-202 Method 101D / Condition B (35°C/96 hrs)
Immersion	MIL-STD-202 Method 104A / Condition A (65°C to 25°C w/NaCl – 2 cycles)
Moisture Resistance	MIL-STD-202 Method 106E (65°C/98% RH condensing/240 hrs)
Temperature Shock	MIL-STD-202 Method 107D / Condition 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

	-E
Body Material	Aluminum
Body Finish	Conversion Coating
Connectors Material	Stainless steel
Connector Finish	Nickel
Center Pin Material	BeCu
Center Pin Finish	Gold
Watertight	IP67

P/N Configuration

Series	Type	Surge Conn	Surge Gender	Protected Conn	Protected Gender	Freq	Polarity	Voltage	Package
FP	**D**	**S**	**F**	**S**	**F**	**HE**	**0**	**00**	**-E**

Outline Drawings

Package Style "E"