Product Specification
FPNNMNFBDA3B

HEMP & NEMP Fine Protector-Surge Arrestor
Special Electrical POE Protective Device per MIL-STD-188-125-1

Protection for
Satellite Modem
SINCGARS
Tactical VHF

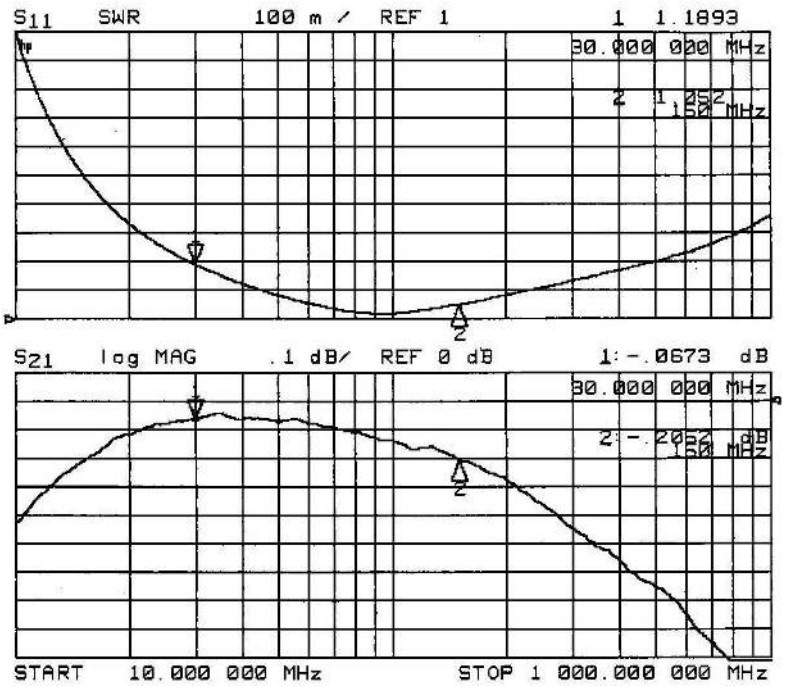
Features:

- **Sub-Nanosecond Response Time**
- **Frequency ranges 30 – 225MHz**
- **N Type Connectors - Female Side Protected**
- **30A LEMP or 60A NEMP Protection**
- **Designed for MIL-STD 188-125-1, MIL-STD-461, & MIL-STD-464**
- **Excellent RF Performance**

RF Specifications

Frequency (MHz)	VSWR (typ)	Insertion Loss (dB, typ)
30 - 150	1.10	0.15
150-225	1.30	0.35

- Nominal Impedance – 50Ω
- Through Current: No DC Pass
- RF Power: 100mW
- Voltage: Nominal ±3.0 Vpk



Typical VSWR and Insertion Loss

Transient Specifications

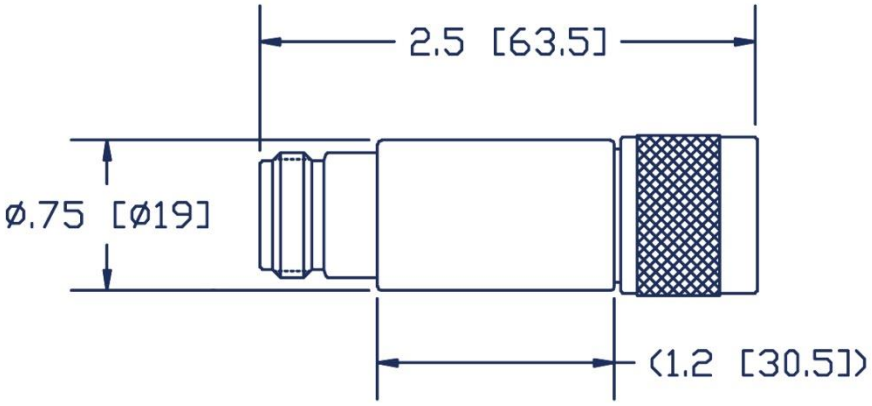
- Response Time: < 1ns
- Transient
  30A 10x*(8X20µs waveform)*
  60A 10x *(20x500ns waveform)*

Let-Through Energy (*10A Input*)	
LEMP (*8X20µs*)	±50mV
NEMP (*20x500ns*)	±0.5V

This item is subject to ITAR control

Mechanical Specifications

Weight: 4.8 ounces [135 grams]



Protected **Exposed**

inches

Material and Finish

Component	Material	Finish
Outer Parts	Brass	Nickel
Center Contact	BeCu	Gold
Insulator	PTFE	-
Gasket	EPDM or SIL	-

This product is an example of NexTek's ultra-high-speed NEMP/HEMP suppressor technology. This family of devices is available with a variety of clamping voltages, connector configurations, and protected/unprotected orientations. Please contact NexTek, Inc. with your requirements for help with choosing the proper protection.

Environmental Specifications

Temperature Range	-40°C to +90°C
Salt Fog	MIL-STD-202 Method 101D / Condition B (35°C/48hrs)
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 -65°C to +125°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")