

FPLNMNFAP36



- **FPLNMNFAP36** – N-Male Connector Surge Side and N-Female Protected Side

FEATURES:

- Broad Band Design
- Excellent Insertion Loss and Return Loss
- DC Pass, 36VDC Max.
- Multi-Strike Capability
- Max Surge Current of 25kA
- Max Power 300W RMS
- RoHS & CE Compliant
- Bulkhead Mounting
- IP67 Rated

APPLICATIONS:

- Public Safety
- Land Mobile Radio
- Distributed Antenna Systems
- 4G & 5G Communications Systems
- GPS Systems
- Tower Mounted Amplifiers
- Other Wireless Applications that Require DC Pass

RF DC Pass Fine Protector, 400-2700 MHz, Type N-Male (Surge) to N-Female (Protected), Bulkhead/Bracket Mount, 36VDC, 25kA - The FPL series is a RF broadband device designed for surge and lightning protection applications where DC Pass is required to power the electronics. The FPL unit offers excellent surge / lightning suppression for distributed antenna systems (DAS), Tower Top amplifiers and applications requiring a DC Pass design. The FPL series demonstrates excellent RF characteristics while offering outstanding surge protection.

Transient Specifications

Protection Circuit	DC Filtered
Surge Current	IEC 61000-4-5 8/20 μ s Waveform
Maximum Surge	25 kA (1x)
Multi-Strike	15 kA Multiple (10x)
Turn-on Voltage	\pm 40Vdc
Turn-on Time	4ns for 2kV/ns
Let-Through Energy	\leq 1mJ \pm 20% @10kA 8/20 μ s Waveform
Let-Through Voltage	\leq 120VDC \pm 20% @10kA 8/20 μ s Waveform

RF Specifications

Impedance	50 Ω
Frequency	400 – 2700 MHz
VSWR/Return Loss	\leq 1.2:1 Max / 21 dB (Over Frequency Range)
Insertion Loss	\leq 0.2dB (Over Frequency Range)
Maximum RF Power	300W RMS Average

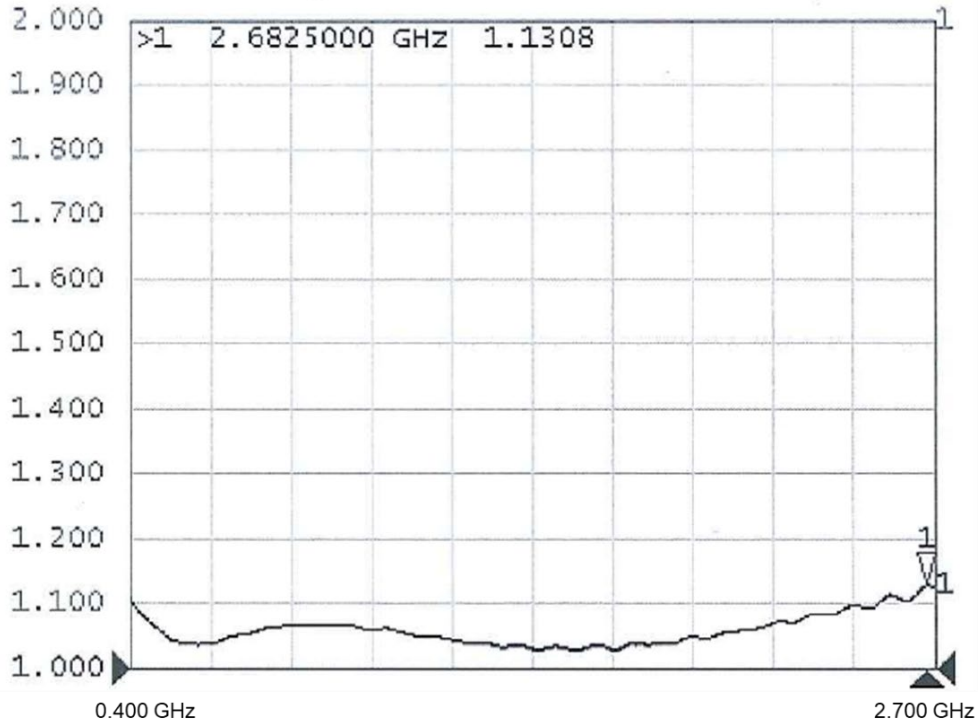
DC Characteristics

Operational Voltage	\pm 36.0Vdc (Max)
Operational Current	\leq 4.0A (Continuous)
DC Resistance	\leq 0.2 Ω

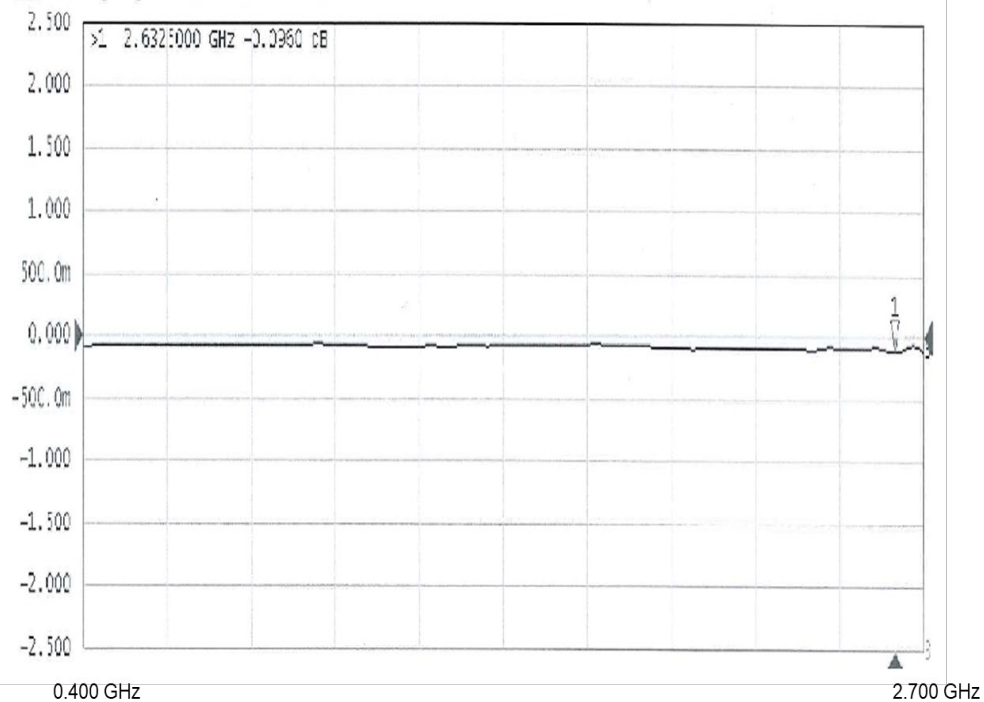
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VSWR & Insertion Loss RF Data

Tr1 S11 SWR 100.0m/ Ref 1.000

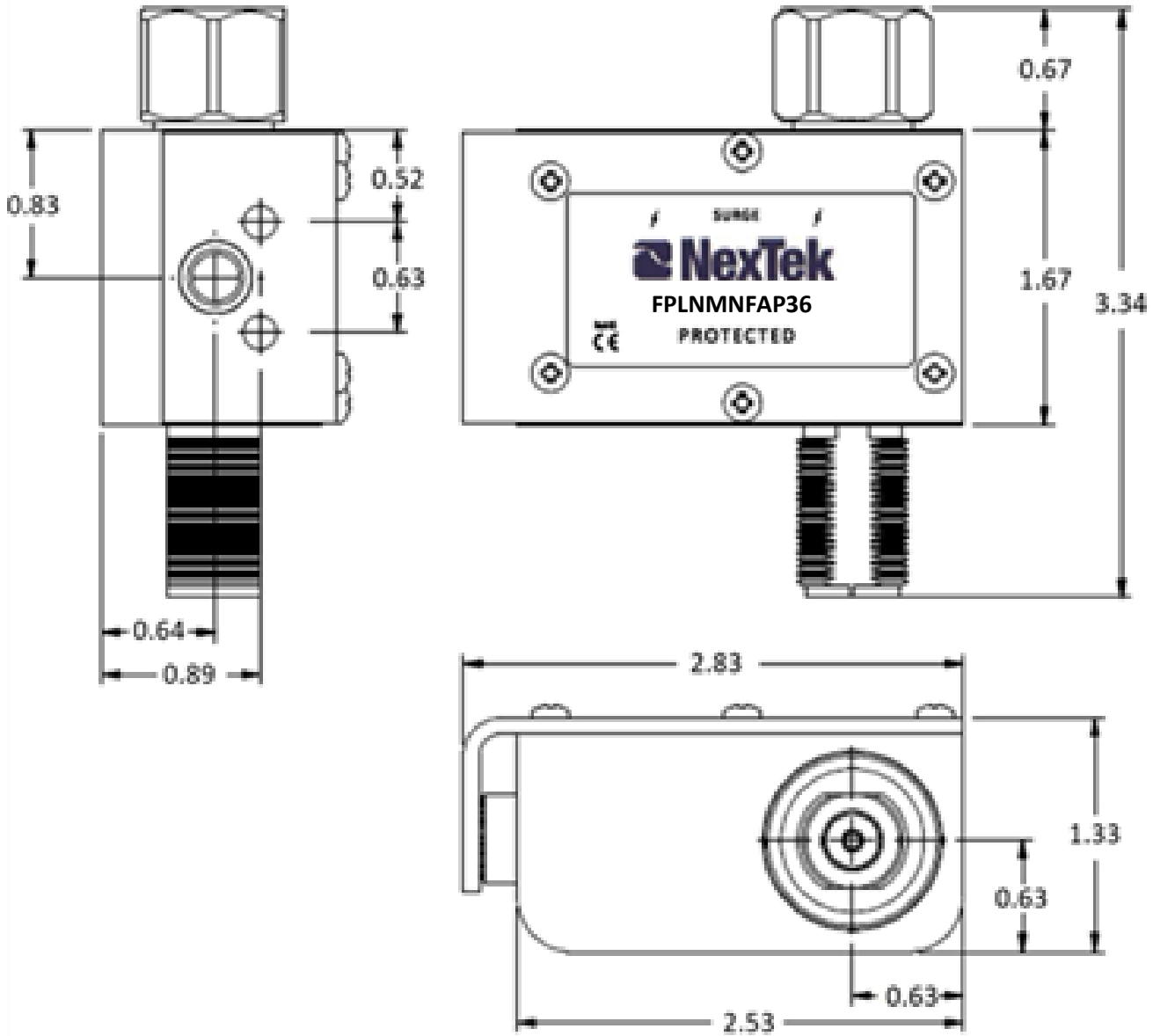


S21 Log Mag 500.0m dB/ Ref 0.000dB



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Mechanical Outline & Dimensions



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Hardware Kit (included)

Item	Description	Qty
1	5/8"-24 HEX NUT	1
2	5/8" INTERNAL LOCK WASHER	1
3	'O'-RING 019 SILICONE	1
4	SCREW CAP M8 X 1.25 X 10mm	1
5	5/16" EXT TOOTH LOCK WASHER 18-8 SS	1



Material/Finish Specifications

Component	Material	Finish
Outer Parts	Aluminum	Ball Burnish
Connectors	Brass	Tri-Metal
Coupling Nut & Washer	SST	---
Center Contact	Be Cu / Brass	Gold
Insulator	PTFE	---

Environmental Specifications

Component	Material
Storage / Operational Temp	-50°C to +85°C
Ingress Protection Bellcore	IP67 IEC 60529 TA-NWT-000487
Weight	0.54 lb. (0.24 kg)
RoHS Compliant	Yes
CE	Yes