

RF DC Pass Fine Protector, 400-2700 MHz, Type N F-F, Bulkhead, 6VDC, 50kA

FPLNFNFXP06 Series



• FPLNFNFXP06

N Female Connectors on Surge and Protected Side

FEATURES:

- Broad Band Design
- Excellent Insertion Loss and Return Loss
- DC Pass
- Multi-Strike Capability
- Surge Current of 50kA
- Max Power 300W RMS
- RoHS & CE Compliant
- Bulkhead Mounting
- IP67 Rated

APPLICATIONS:

- Public Safety
- Distributed Antenna Systems
- 4G LTE / 5G
- GPS Systems
- Tower Mounted Amplifiers
- Many Other Wireless Applications that require DC Pass.

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, GPS applications requiring a DC Pass design. The FPL series demonstrates excellent RF characteristics while offering outstanding surge protection.

RF Specifications

Impedance	50 Ω
Frequency	400 – 2700 MHz
VSWR/Return Loss (Over Frequency)	≤1.17:1 Max / 21.20 dB
Insertion Loss (Over Frequency)	≤0.20 dB to ≤2700 MHz
Maximum RF Power	300W RMS Average

Transient Specifications

Protection Circuit	DC Filtered
Surge Current	IEC 61000-4-5 8/20μs Waveform
Maximum Surge	50 kA
Multi-Strike	10 kA Multiple (10x)
Turn-on Voltage	±6.5Vdc
Turn-on Time	4ns for 2kV/ns
Let-Through Energy	≤100μJ ±20% @ 10kA 8/20μs Waveform
Let-Through Voltage	≤20VDC ±20% @10kA 8/20μs Waveform

DC Characteristics

Operational Voltage	±6.0Vdc (Max)
Operational Current	≤4.0A (Continuous)
DC Resistance	≤0.2 Ω

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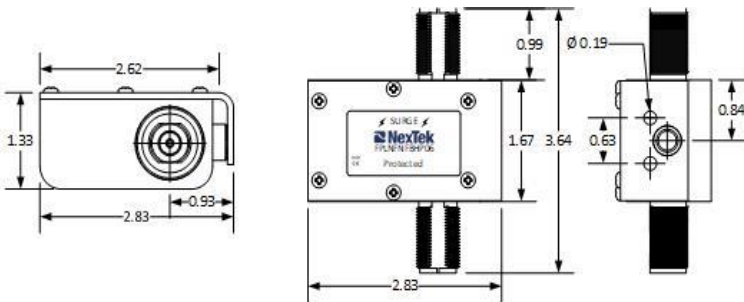
Mechanical / Environmental Specifications

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

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	---

Mechanical Outlines



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



Electrical Performance

