

## FPLNxNxAP06 Series



- **FPLNFMAP06** – N-Female Connectors Surge and Protected Sides
- **FPLNFMAP06** – N-Female Connector Surge Side and N-Male Protected Side
- **FPLNMNFAP06** – N-Male Connector Surge Side and N-Female Protected Side

### FEATURES:

- Broad Band Design
- Excellent Insertion Loss and Return Loss
- DC Pass
- Multi-Strike Capability
- Max Surge Current of 20kA
- Max Power 300W RMS
- RoHS & CE Compliant
- Bulkhead Mounting
- IP67 Rated

### APPLICATIONS:

- Public Safety
- 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, Bulkhead, 6VDC, 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, GPS applications requiring a DC Pass design. The FPL series demonstrates excellent RF characteristics while offering outstanding surge protection.

### RF Specifications

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

### Transient Specifications

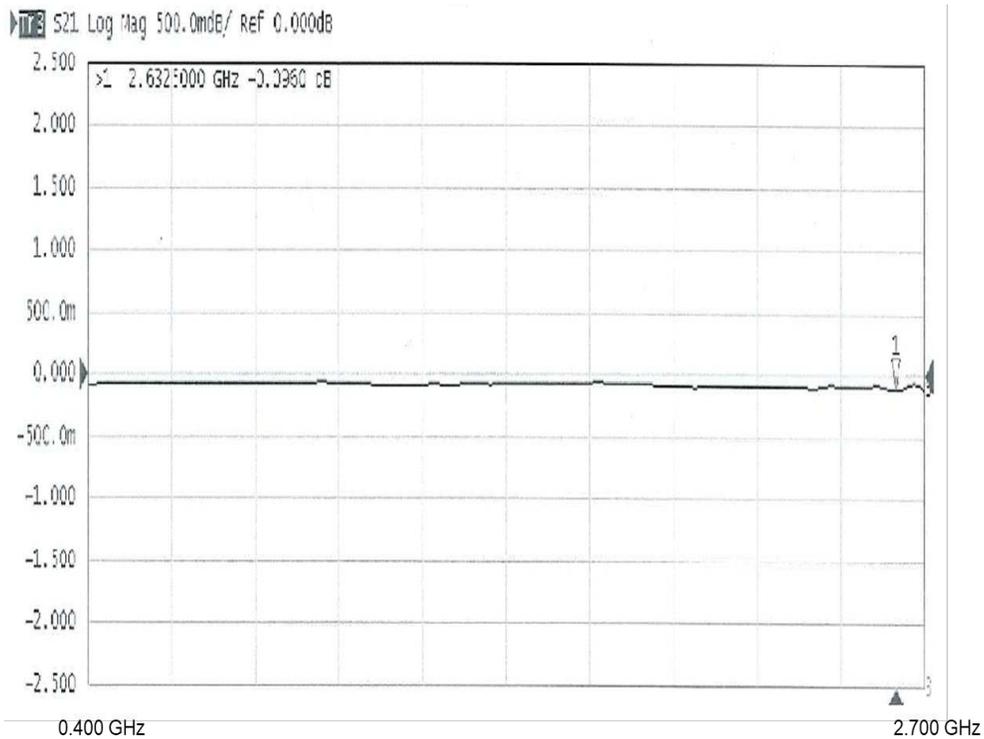
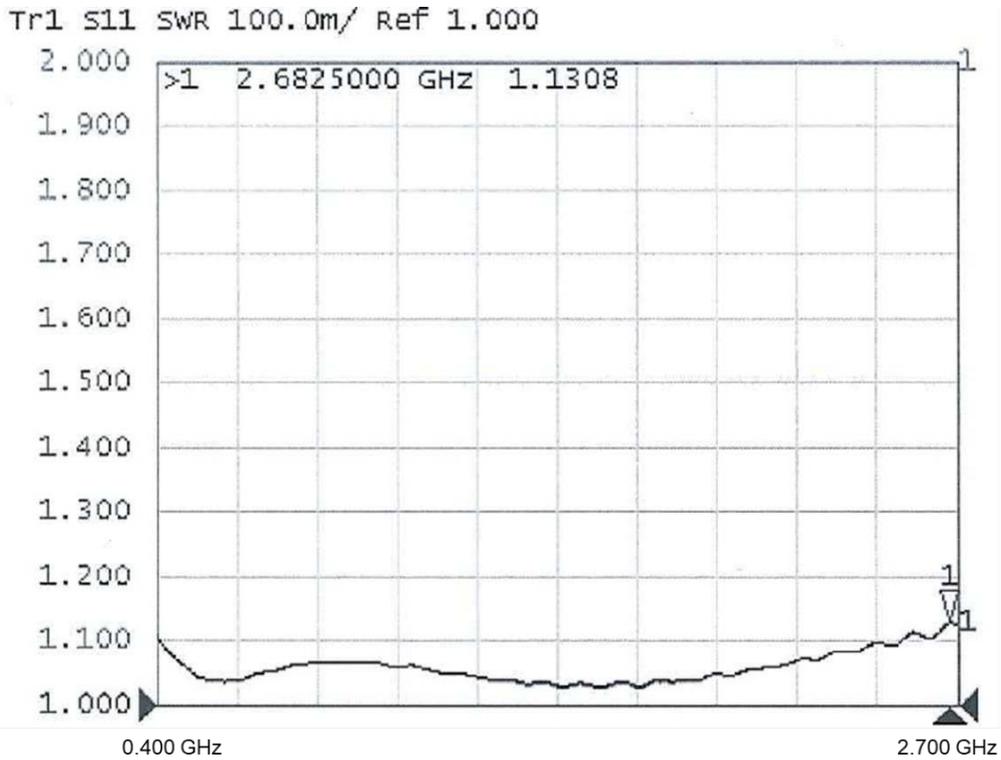
<b>Protection Circuit</b>	DC Filtered
<b>Surge Current</b>	IEC 61000-4-5 8/20 $\mu$ s Waveform
<b>Maximum Surge</b>	25 kA (1x)
<b>Multi-Strike</b>	10 kA Multiple (10x)
<b>Turn-on Voltage</b>	$\pm 6.5$ Vdc
<b>Turn-on Time</b>	4ns for 2kV/ns
<b>Let-Through Energy</b>	$\leq 100$ $\mu$ J $\pm 20\%$ @10kA 8/20 $\mu$ s Waveform
<b>Let-Through Voltage</b>	$\leq 20$ VDC $\pm 20\%$ @10kA 8/20 $\mu$ s Waveform

### DC Characteristics

<b>Operational Voltage</b>	$\pm 6.0$ Vdc (Max)
<b>Operational Current</b>	$\leq 4.0$ A (Continuous)
<b>DC Resistance</b>	$\leq 0.2$ $\Omega$

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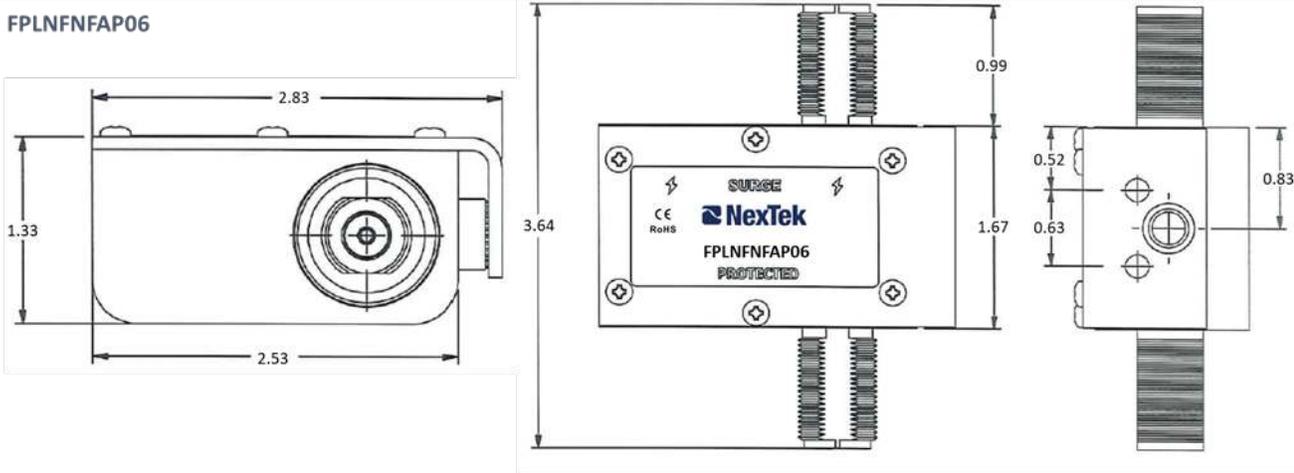
### VSWR & Insertion Loss RF Data



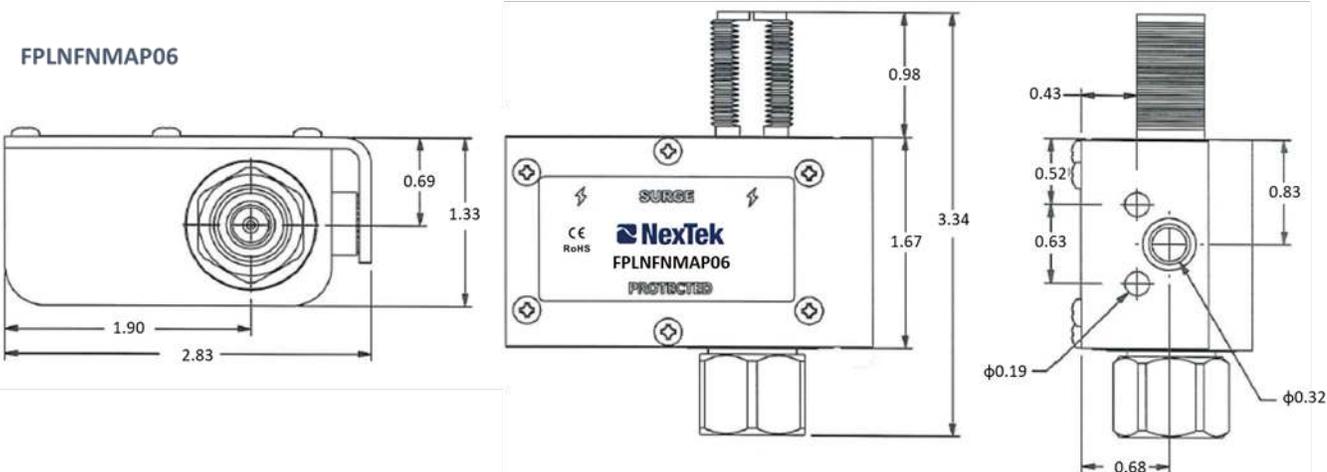
## FPLNxNxAP06 Series

### Mechanical Outline & Dimensions

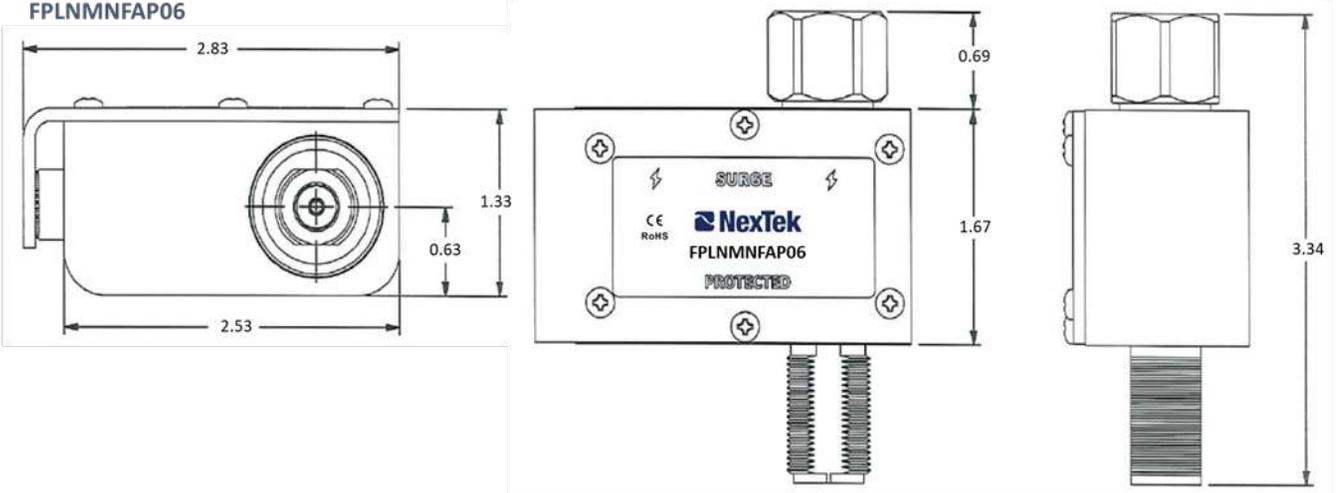
FPLNFnFAP06



FPLNFnMAP06



FPLNMnFAP06



## FPLNxNxAP06 Series

### 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