

Type N F/F Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, DC Block, 500W, IP67, .005uJ, 40kA, Filter, Low PIM



## TSX-NFF-P

### Features

- Surge current of 40kA
- Max Power 500W
- Frequency range from 698 MHz to 2700 MHz
- Waterproof IP67 rated
- N-type Female connectors
- DC Block
- VSWR <1.1:1
- Low insertion loss
- CE & RoHS compliant
- Bidirectional

### Applications

- Cellular communication systems
- Public safety systems
- Emergency response systems
- Industrial Communications

### Description

RF surge protector (also known as lightning arrester) TSX-NFF-P from PolyPhaser utilizing a patented spiral inductor design enables an almost instantaneous response to a lightning surge to protect critical hardware while maintaining the RF performance. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. All PolyPhaser RF surge protector products are available in stock with same day shipping.

### Electrical Specifications

Surge Protector Type DC Handling	Surge Filter DC Block
Description	Minimum
Frequency Range	0.698
Impedance	50
VSWR	1.1:1
Return Loss	26
Insertion Loss	0.1
Passive Intermodulation	-155
Input Power, CW	500
Surge Current IEC 61000-4-5 8/20 $\mu$ s waveform	40
Throughput Energy for 3kA @ 8/20 $\mu$ s waveform	5

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
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### Mechanical Specifications

#### Size

Length	3.61 in [91.69 mm]
Width/Diameter	1.18 in [29.97 mm]
Weight	1 lbs [453.59 g]
Housing Material and Plating	Brass

#### Configuration

Input Connector	N Female
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-50 to +85 deg C
Storage Range	-50 to +85 deg C

#### Ingress Protection (IP) Rating

Vibration	IP67
	1G at 5Hz to 100Hz

### Compliance Certifications

CE Compliant Certifications	Yes
	NOM

### Plotted and Other Data

Notes:

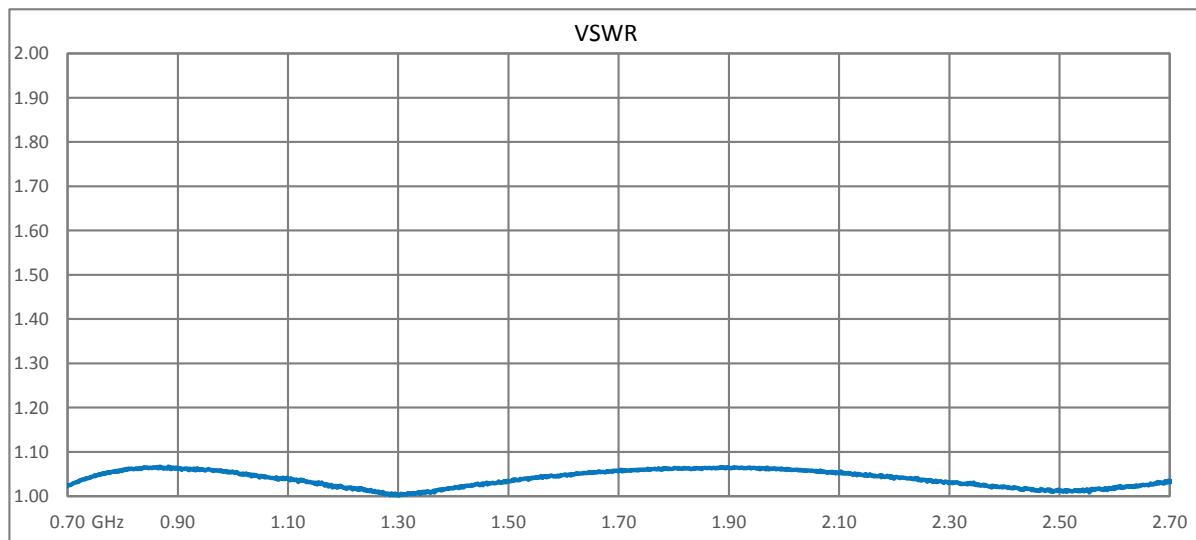
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### Typical Performance Data

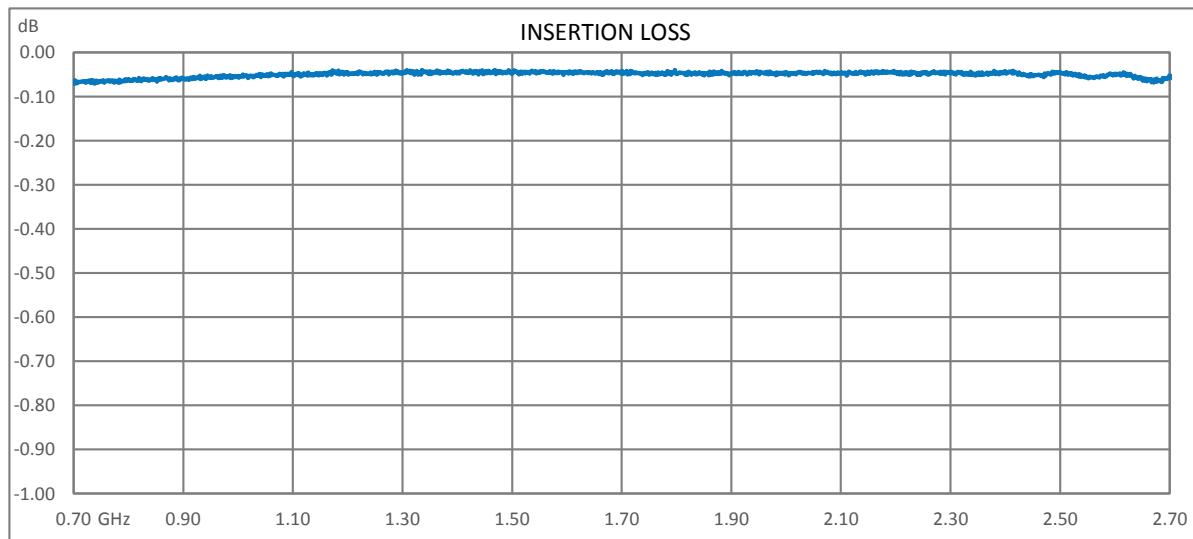


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/type-n-surge-protector-2.7ghz-filter-tsx-nff-p-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

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**TSX-NFF-P CAD Drawing**

