

Type N F/F Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 220uJ, 50kA, Blocking Cap, Bracket Up, Hole Mount



## IS-50NX-C2

### Features

- Surge current of 50kA
- Max Power 375W
- Frequency range from 125 MHz to 1000 MHz
- N Female to N Female connectors
- VSWR <1.1:1
- Multi-strike capability
- CE & RoHS compliant

### Applications

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

### Description

RF surge protector (also known as lightning arrester or surge arrester) IS-50NX-C2 from PolyPhaser, integrating a RF blocking capacitor with a gas tube (GT or GDT). 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

Blocking Cap and Gas Tube  
DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	125		1,000	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.1	dB
Input Power, CW			375	Watts
375W @ 125 to 220MHz				
125W @ 220 to 700MHz				
50W @ 700 to 1000MHz				
Surge Current			50	kA
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		600 20%		Volts
Throughput Energy			220	uJ
@ 3kA, 8/20µs WAVEFORM				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Type N F/F Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 220uJ, 50kA, Blocking Cap, Bracket Up, Hole Mount IS-50NX-C2](#)

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### Mechanical Specifications

#### Size

Length	2.45 in [62.23 mm]
Width/Diameter	1.75 in [44.45 mm]
Height	1.5 in [38.1 mm]
Weight	0.3 lbs [136.08 g]

#### Configuration

Input Connector	N Female
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-50 to +50 deg C
Storage Range	-55 to +85 deg C

Ingress Protection (IP) Rating	None
Vibration	1G up to 100Hz

### Compliance Certifications

CE Compliant	Yes
UL Certifications	UL497E NOM

### Plotted and Other Data

Notes:

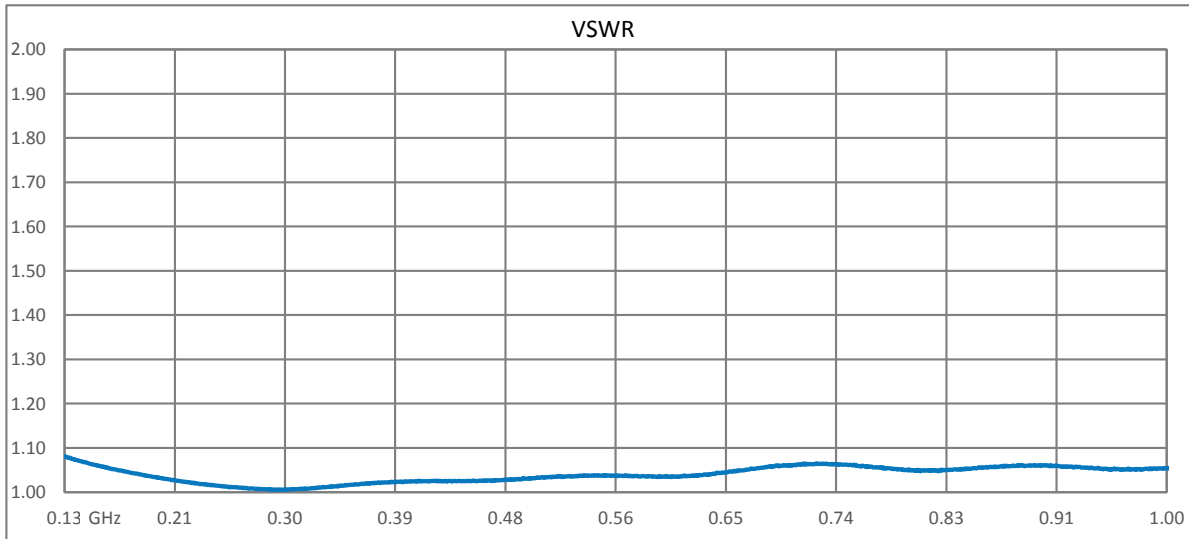
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### Typical Performance Data



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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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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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IS-50NX-C2 CAD Drawing

1.75 [44.5]

1.50 [38.1]

2X 'N' FEMALE CONNECTOR

ANTENNA  
IS-50NX-C2  
125 TO 200MHz @ 375W  
250 TO 700MHz @ 1.25W  
700 TO 1000MHz @ 50W  
POLYPHASER  
EQUIPMENT

2.45 [62.23]

.94 [23.9]

$\phi .20 [5.2]$

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES:  
FRACTIONS: ± 1/32 .XXF± .03  
ANGLES: ± 1° .XXX± .010  
THIRD-ANGLE PROJECTION

HARDWARE KIT INCLUDES:

QTY	DESCRIPTION
1	SCREW 10-32 X .50 SLOT F PAN 4-10 SS
1	SCREW 10-32x.50 SLOT MS PAN 18-8 SS
1	NUT 10-32 HEX 18-8 SS
2	WASHER 10 EXT TOOTH SS STAINLESS STEEL

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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**PolyPhaser**

SHEET 1 of 1  
SCALE 1:1

TITLE BROADBAND 125-1000MHz R50  
T.O. 600Vdc N FEM

SIZE A CAGE 30992 PROD CAT RFP DRAWING NUMBER IS-50NX-C2 REV A