PolyPhaser
an INFINITe brand

TNC F/F Coaxial RF Surge Protector, DC - 50MHz, 1W, IP67,
15 V Max., 1mJ, 20kA, Hybrid, Bracket Down, Hole Mount

AGXZ+15TFTF-A

Features
- Surge current of 20kA
- Max Power 1W
- Frequency range from 0 to 50 MHz
- TNC-type Female connectors
- Waterproof IP67 rated

- DC Pass
- VSWR <1.2:1
- CE & RoHS compliant
- Directional

Applications
- WiFi
- GPS

- Land mobile radio

Description
RF surge protector (also known as lightning arrester or surge arrestor) AGXZ+15TFTF-A from PolyPhaser, utilizes a patented hybrid protection technology integrating a silicon avalanche suppression diode (SASD), a Metal Oxide Varistor (MOV) and 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   Hybrid
DC Handling   DC Pass

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.3	dB
Operating Voltage (DC)			15	Volts
Input Power, CW			1	Watt
Surge Current IEC 61000-4-5 8/20µs waveform multiple			20	kA
Turn On Voltage		19		Volts
Throughput Energy for 3kA @ 8/20µs waveform			1	mJ

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
TNC F/F Coaxial RF Surge Protector, DC - 50MHz, 1W, IP67, 15 V Max., 1mJ, 20kA, Hybrid, Bracket Down, Hole Mount AGXZ+15TFTF-A

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Mechanical Specifications

Size
Length	2.72 in [69.09 mm]
Width/Diameter	2.83 in [71.88 mm]
Height	1.44 in [36.58 mm]
Weight	1 lbs [453.59 g]

Configuration
Input Connector	TNC Female
Output Connector	TNC Female

Environmental Specifications

Temperature
Operating Range	-50 to +50 deg C
Storage Range	-50 to +85 deg C
Ingress Protection (IP) Rating	IP67
Humidity	95%

Compliance Certifications
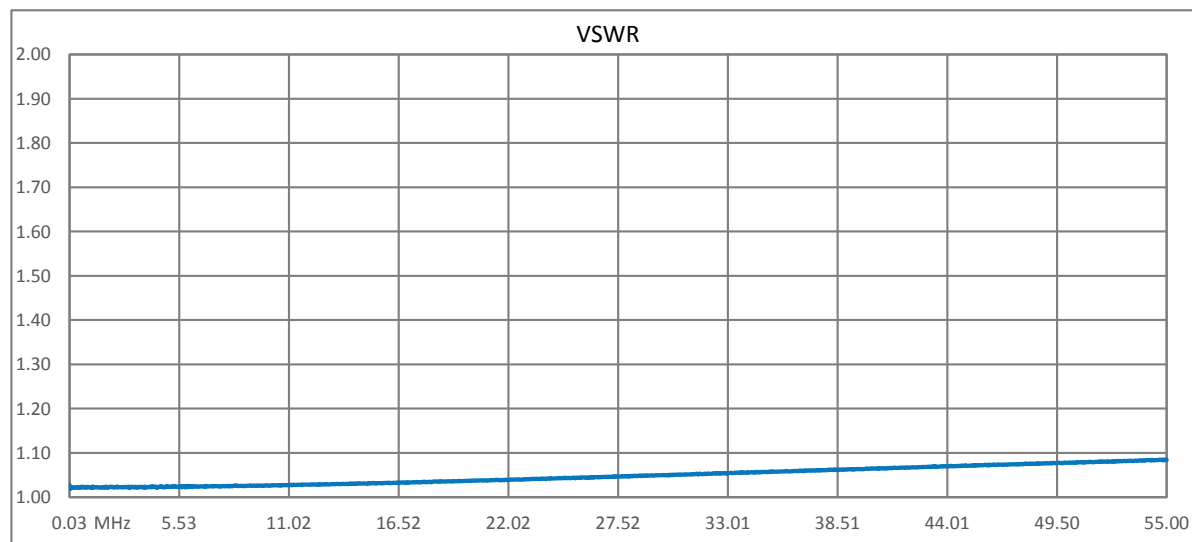CE

Plotted and Other Data
Notes:

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Typical Performance Data

VSWR chart showing VSWR on the vertical axis (1.00 to 2.00) versus frequency on the horizontal axis (0.03 MHz to 55.00 MHz)

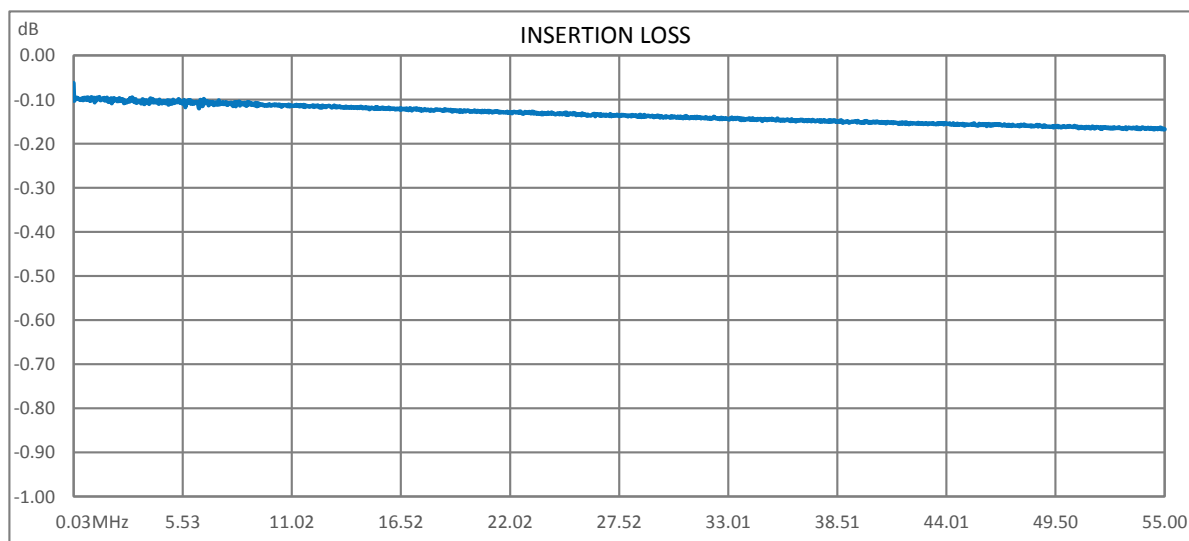|										
0.03 MHz	5.53	11.02	16.52	22.02	27.52	33.01	38.51	44.01	49.50	55.00

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INSERTION LOSS

dB	
0.00	
-0.10	
-0.20	
-0.30	
-0.40	
-0.50	
-0.60	
-0.70	
-0.80	
-0.90	
-1.00	

0.03MHz   5.53   11.02   16.52   22.02   27.52   33.01   38.51   44.01   49.50   55.00

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/tnc-surge-protector-50mhz-hybrid-agxz-15tftf-a-p.aspx

TNC F/F Coaxial RF Surge Protector, DC - 50MHz, 1W, IP67, 15 V
Max., 1mJ, 20kA, Hybrid, Bracket Down, Hole Mount

AGXZ+15TFTF-A **CAD Drawing**

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

2.83 [71.9]

1.42 [35.9]

.63 [16]

.63 [15.9]

2.72 [69.1]

1.67 [42.4]

.83 [21.2]

.77 [19.6]

M8 X 1.25-6H NUT

HARDWARE KIT INCLUDES:

QTY	DESCRIPTION
1	SCREW CAP M8X1.25X10MM
1	WASHER 5/16 EXT 18-8 SS
2	SCREW SET 10-32X.75 18-8 SS
2	WASHER 12 STEEL/ NEOPRENE
2	NUT 10-32 HEX 18-8 SS
1	O-RING 114 EPDM

PolyPhaser

dc TO 50MHz HIGH VOLTAGE
DC PASS

TITLE

SIZE A | CAGE 30992 | PROD CAT RFP | DRAWING NUMBER AGXZ+15TFTF-A | REV A

SHEET 1 of 1

SCALE 2:3

REV A

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
FRACTIONS=± 1/32   .XX=± .03
ANGLES=± 1°   .XXX=± .010

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THIRD-ANGLE PROJECTION

U.S. PATENT
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