

ANT-272-002

75 Ohm F-Male/F-Female Lightning Arrester



Applications

- TV Antennas including HDTV
- Satellite Dish Antennas
- 75 Ohm 4G/5G Signal Booster Antennas
- AM / FM / XM Radio Antennas
- Coaxial Cable Modem Internet Connections



Product Features

- Designed for TV, Satellite, AM, FM And Cable TV/Internet Use
- Compatible with 75 Ohm 4G/5G Signal Boosters
- Bi-Directional Protection - High Quality Construction - Outdoor Rated
- Very Low RF Insertion Loss (Signal Attenuation) - DC Pass-Through
- 230V Gas Discharge Tube with Multi-Strike Capability Shunts Damaging Surges, Transients, and Lightning Energy to Ground
- Connect Coaxial Surge Protector to Antenna Signal Feedline and Earth Ground

Ordering Information

Part No.	Description
ANT-272-002	Coaxial Lightning Arrester with 75 Ohm F-Male & F-Female Connectors

General Description

This gas discharge tube lightning suppressor features 75 Ohm F-Male and F-Female connectors, a replaceable gas tube and low signal insertion loss and interference.

It is intended for use with Television (TV), CATV, Satellite (Dish) and Radio Antennas and Cable Internet applications.

This arrester is also compatible with 75 Ohm outdoor antennas and cabling using on some 4G/5G Signal Boosters (amplifiers).

Pro-Grade 230V arresters absorb 2.5 times the energy of typical 90V arresters for better protection of your home and equipment.

With Male and Female F connectors, the arrester can easily be placed inline with your existing coax cabling. It passes DC for applications such as remote amplifiers and LNAs. Both ports are equally protected - it can be installed in either orientation. The housing ground lug provides superior grounding.

Coaxial lightning suppressors should be installed between outdoor antennas and equipment to protect from high-energy electrical pulses carried through the coax cable either from a direct or nearby lightning strike. Arresters should be installed outdoors as close as possible to the equipment to be protected, typically at the point where the coax cable enters the building.

ANT-272-002

75 Ohm F-Male/F-Female Lightning Arrester



Electrical Specifications

Parameter	Rating
Impedance	75 Ω
Frequency Range Max	DC-1.2 GHz
Dielectric Withstanding	500 V (RMS)
Contact Resistance	Center conductor ≤ 10 m Ω , Outer conductor ≤ 5 m Ω
Insulation Resistance	≥ 1000 M Ω
DC Break-Down Voltage	230 V (100 V/s test waveform at 100 V/s)
Impulse Break-Down Voltage	< 700 V (1 KV/us test waveform at 1 KV/us)
Nominal AC Discharge Current	20 A
Arc Voltage (@ 1A)	~ 15 V
Holdover Voltage	80 V
Impulse Discharge Current	5 A (1 shot 10/350 us) 20 (10 shot 8/20 us) 25 A (1 shot 8/20 us) 100 A (300 shots 10/1000 us)

Mechanical Specifications

Parameter	Rating
Connector Types	F-Male / F-Female
Ground Lug	M4 Screw Lug - 8 AWG Max Wire Diameter
Shell/Body	Nickel Plated Brass
Conductor	CuSnZn3 Plated Brass
Insulator	PTFE
Mating	3/8"-32UNEF-2A(B)
Durability	≥ 500 cycles
Temperature range	-40°C to +85°C

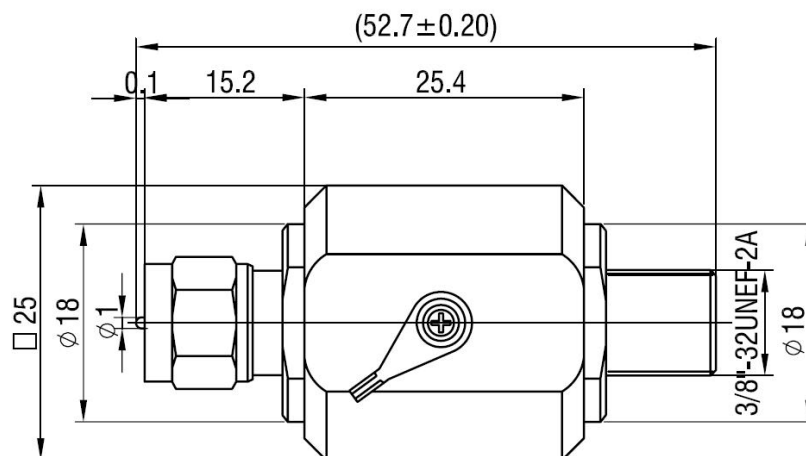
Operation of this device outside the parameter ranges given above may cause permanent damage.

ANT-272-002

75 Ohm F-Male/F-Female Lightning Arrester



Mechanical Dimensions



Register						3	SHELL/BODY	BRASS	3	NICKEL
						2	INSULATOR	TEFLON	2	
Old base drawing number						1	CONDUCTOR	BRASS	1	CuSnZn3
						CODE	DESCRIPTION	MATERIAL	QTY	FINISH
base drawing number						Title F type Lighting protection				
signature	Mark	Num.	File number	signature	Date	Part Number JC				
	Design									
Date	Drawing					Version V1.2				
	Check									
	Approval					Total Pages				
						The Page				
						YangZi				
						OUTLINE DRAWING				

ANT-272-002

75 Ohm F-Male/F-Female Lightning Arrester



Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

Web: www.proxicast.com Tel: 1-877-777-7694

Email: sales@proxicast.com 1-412-213-2477

Proxicast • 312 Sunnyfield Drive, Suite 200 • Glenshaw, PA 15116 USA

For technical questions and application information:

Email: support@proxicast.com

Important Notice

The information contained herein is believed to be reliable. Proxicast makes no warranties regarding the information contained herein. Proxicast assumes no responsibility or liability whatsoever for any of the information contained herein. Proxicast assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice.

The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. Proxicast products are not warranted or authorized for use as critical components in medical, life-saving, or life-sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.