

## COAXIAL RF SURGE PROTECTION

# **IS-50 Series**

The IS-50 Series of DC block surge arrestors are designed to protect against lightning events and are ideal for HF, UHF and VHF radios. The IS-50 family of RF protectors can be used for general radio use with frequency ranges between 1.5 MHz to 1000 MHz.



#### **FEATURES**

- Broad frequency ranges from 1.5 MHz to 1000 MHz
- · Connectors: N-Type, F-Type and UHF
- High power versions capable to 2kW
- · Industry leading surge rating of 20kA
- 75Ω version available (IS-75F-C1)

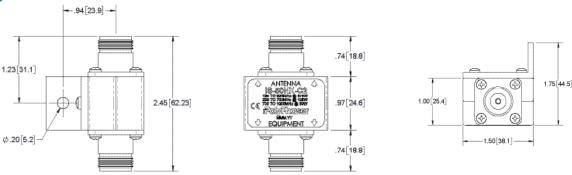
#### **STANDARDS**

- CE Compliant
- RoHS Compliant

#### **GENERAL SPECIFICATIONS**

Insertion Loss	≤0.1dB
VSWR	≤1.2:1 or Better Over Frequency Range
Return Loss	<20db
Surge Withstand	20kA 8/20µs Waveform
Weathering Kit Available	Part Number: WK-1

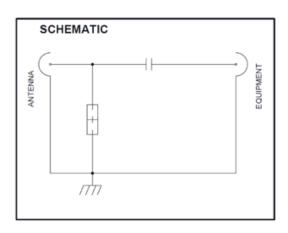
#### DIMENSIONS



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### PATENTED LIGHTNING ARRESTOR TECHNOLOGY

The IS-50 product family is based on PolyPhaser's market establishing surge protection technology. This engineered surge suppressor has been the cornerstone for ham radio operators, land mobile communications and remote industrial monitoring. The IS-50 is approved by major OEMs for use in critical applications such as emergency response, SCADA and public safety communications.





#### **AVAILABLE IS-50 PART NUMBERS**

Part Number	Frequency Rage	Connector	Mounting Configuration	RF Power**	Let-Through Energy
IS-50NX-C0	1.5MHz - 700MHz	N-Type	Flange	Up to 2kW	≤10mJ
IS-50NX-C0-MA	1.5MHz - 700MHz	N-Type	Flange	Up to 2kW	≤10mJ
IS-50NX-C0-ME	1.5MHz - 700MHz	N-Type	Flange	Up to 2kW	≤10mJ
IS-50NX-C2	125MHz - 1GHz	N-Type	Flange	Up to 375W	≤200µJ
IS-50NX-C2-MA	125MHz - 1GHz	N-Type	Flange	Up to 375W	≤200µJ
IS-50NX-C2-ME	125MHz - 1GHz	N-Type	Flange	Up to 375W	≤200µJ
IS-50UX-C0	1.5MHz - 700MHz	UHF	Flange	Up to 2kW	≤10mJ
IS-50UX-C1-MA	50MHz - 700MHz	UHF	Flange	Up to 375W	≤600µJ
IS-50UX-C1-ME	50MHz - 700MHz	UHF	Flange	Up to 375W	≤600µJ
IS-75F-C1	4MHz - 900MHz	F-Type	Flange	Up to 100W	-

MA for Male Surge (Antenna) Connector

• ME for Male Protected (Equipment) Connector

\*\*Power depends on frequency being used - see individual product specifications for details