

LT-ARREST-NFNF-DC3K

RF Coaxial Lightning Surge Arrestor N-Female to N-Female DC-3000MHz, Gas discharge tube

The LT-ARREST-NFNF-DC3K is a high-performance RF surge arrester designed to protect communication and RF transmission equipment from lightning strikes, voltage surges, and transient electrical disturbances. It features N Type Female to N Female connectors and operates across a wide frequency range from DC to 3000 MHz, making it suitable for various RF and telecommunication applications.

This surge arrester utilizes a gas discharge tube (GDT) protection mechanism to safely divert excessive surge energy away from sensitive equipment, ensuring reliable system protection and stable signal performance. With low insertion loss and excellent VSWR characteristics, it maintains signal integrity while providing robust surge protection.

Features

- N Type Female to N Female connector configuration
- Integrated Gas Discharge Tube (GDT) surge protection
- High surge handling capability: 20KA (8/20 μ s waveform)
- Low insertion loss: ≤ 0.20 dB
- Excellent VSWR performance: ≤ 1.20 @ 100–2500MHz
- 50 Ohm impedance matching for RF systems

Applications

- Wireless communication base stations
- RF antenna systems
- Two-way radio communication systems
- Industrial RF communication networks
- Outdoor antenna installations
- Broadcast and microwave communication systems
- IoT and remote monitoring systems



Specifications

Parameter	Specification
Connector Type	N Type Female to N Female
Product Type	Surge Arrester
Protection Method	Gas Discharge Tube
Model	LT-ARREST-NFNF-DC3K
Material and Plating	
Body & Outer Conductor	Brass / Trimetal (Cu-Sn-Zn) Plating
Inner Conductor Jack	Tin Bronze / Golden or Silver Plating
Inner Conductor Plug	/
Insulator	PTFE/TPX
Gasket	Silicon Rubber
Nut	/
Electrical Specifications	
Impedance	50 Ohm
Frequency Range	DC~3000MHz
Center Contact Resistance	≤ 1.00 m Ω
Outer Contact Resistance	≤ 0.25 m Ω
DC Sparkover Voltage	230V $\pm 20\%$
Nominal Impulse Discharge Current	20KA, wave 8/20us
Rated Discharge Current	20A
Nominal AC-Sparkover Voltage	≤ 700 V
Insertion Loss @DC-2500MHz	≤ 0.20 dB
VSWR @100-2500MHz	≤ 1.20
Environmental & Mechanical Specifications	
Mating Durability	≥ 500 cycles
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS	Compliant
Regulatory Compliance / Certification	
Certification	ISO 9001:2015 Compliant

