

LP-GTR-N Series

- DC Pass Multi-Strike Design
- Replaceable Gas Tube
- Broadband Bidirectional Design
- Excellent IL/RL Performance Over the Entire Operating Frequency Band
- Fully Weatherized Housing
- Solid Brass Constuction for Durability and Long Life
- Includes Universal Right Angle Bracket Adaptor







Lightning and Surge Protection for The 21st CenturyTM

The Times-Protect[®] LP-GTR-N series is an exceptional broadband DC pass design for lightning protection applications requiring DC power to be supplied to the electronics. Offering outstanding surge performance, the LP-GTR-N series is the perfect protection solution for distributed antenna systems, tower mounted amplifiers, GPS systems and other applications requiring DC pass circuitry. These devices exhibit outstanding RF performance with high surge current handling characteristics and cover a broad range of power handling requirements from 50 to 550 watts. Its fully weatherized housing meeting IP67 standard allows for outdoor as well as indoor installation. The N connector designs cover the entire frequency spectrum from DC through 3000MHz.

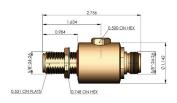
LP-GTR-N Series:

LP-GTR-NFF (90Vdc/50W)
LP-GTR-NFF-23 (230Vdc/210W)
LP-GTR-NFF-35 (350Vdc/550W)
N Female connectors on both sides - bidirectional

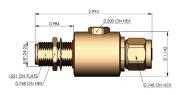
LP-GTR-NFM (90Vdc/50W)
 LP-GTR-NFM-23 (230Vdc/210W)
 LP-GTR-NFM-35 (350Vdc/550W)

N Male connector on one side & N Female connector on the other side - bidirectional

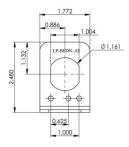
Times-ProtectTM

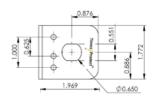


- LP-GTR-NFF
- LP-GTR-NFF-23
- LP-GTR-NFF-35 DC Pass N Type F/F



- LP-GTR-NFM
- LP-GTR-NFM-23
- LP-GTR-NFM-35 DC Pass N Type F/M





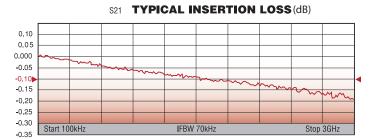
- Universal Right Angle Bracket Adaptor
- *All Dimensions shown in inches

Electrical Specifications							
Impedance		50 Ω					
Frequency Range		DC-3000 MHz					
VSWR/Return Loss		< 1.1:1 / <-26dB (DC-2800MHz) < 1.13:1 / <-24dB (2800-3000MHz)					
Insertion Loss		< 0.1dB (DC-1000MHz) < 0.2dB (1000-3000Mhz)					
Maximum Surge Current		20kA multiple (8x20µs wave-form)					
Part Number: LP-GTR	NFF/NFM	NFF-23/NFM-23	NFF-35/NFM-35				
Impulse Sparkover	500V (1kV/μs)	700V (1kV/μs)	800V (1kV/μs)				
Turn on	90Vdc	230Vdc	350Vdc				
Average Power 50 Watts		210 Watts	550 Watts				
Protection Circuit	DC Pass						

	Mechanical / Environmental Specifications				
	Temp Range Storage/Operating	-40°C - +85°C			
	Weatherization	IEC 60068 40/085/21 & IP67			
	Thermal Shock	US MIL-STD 202, Meth.107,Cond.B			
	Vibration	US MIL-STD 202, Meth.204,Cond.B			
	Shock	US MIL-STD 202, Meth.213,Cond.I			
RoHS Compliant Wear/Mating Cycles Recommended Coupling Nut Torque		Yes 500 minimum			
				7 to 10 lb-in	
			Unit Weight	0.2kg/pc \ 0.44lb	

Offic Weight		0.2kg/p0 \ 0.111b		
Material Specifications				
Mater	ial	Plating		
Brass		White Bronze		
Brass		Silver		
Phosphor Bronze		Silver		
Brass		White Bronze		
Brass		White Bronze		
TPX				
Silicone Rubb	er			
	Mater Brass Brass Phosphor Bro Brass Brass TPX	Material Specification Material Brass Brass Phosphor Bronze Brass Brass		







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