

LP-GTRN 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 Contstuction for Durability and Long Life





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Lightning and Surge Protection for The 21st CenturyTM

The Times-ProtectTM LP-GTRN 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-GTRN 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. Its fully weatherized housing meeting IP67 standard allows for outdoor as well as indoor installation. The LP-GTRN series also has excellent power handling capability. The N connector designs cover the entire frequency spectrum from DC through 3000MHz.

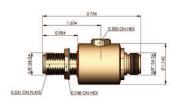
LP-GTRN Series:

- LP-GTR-NFF
 N Female connectors on both sides bidirectional
- LP-GTR-NFM
 N Male connector on one side & N Female connector on the other side - bidirectional

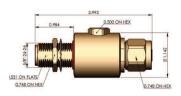


Times-ProtectTM

Specifications



• LP-GTR-NFF DC Pass N Type F/F



• LP-GTR-NFM DC Pass N Type F/M

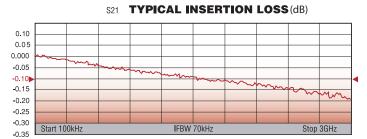
*All Dimensions shown in inches

Electrical Specifications		
Impedance	50 Ω	
Frequency Range	DC-3000 MHz	
VSWR/Return Loss	< 1.15 / <-26dB	
Insertion Loss	< 0.25 dB	
Impulse Spark Over	20KA multiple (8x20µs wave-form)	
Turn-on Voltage	90Vdc	
Impulse Sparkover	500V (1kV/μs)	
Average Power	50 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	Yes		
Wear/Mating Cycles	500 minimum		
Recommended Coupling Nut Torque	7 to 10 lb-in		

Material Specifications			
Component	Material	Plating	
Body	Brass	White Bronze	
Inner Conductor Male	Brass	Silver	
Inner Conductor Female	Phosphor Bronze	Silver	
Washer	Brass	White Bronze	
Coupling Nut	Brass	White Bronze	
Insulator	TPX		
0-Ring	Silicone Rubber		







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