

## LP-GTR-D 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 Construction for Durability and Long Life
- Includes Universal Right Angle Bracket Adaptor







## Lightning and Surge Protection for The 21st Century<sup>TM</sup>

The Times -Protect™ LP-GTR-D 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-D 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 716 DIN connector types can be used from DC through 2500MHz.

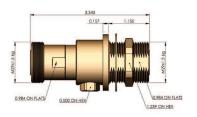
## LP-GTR-D Series:

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

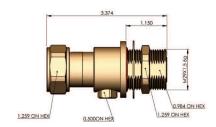
LP-GTR-DFM (90Vdc/50W)
 LP-GTR-DFM-23 (230Vdc/210W)
 LP-GTR-DFM-35 (350Vdc/550W)

716 DIN Male connector on one side & 716 DIN Female connector on the other side - bidirectional

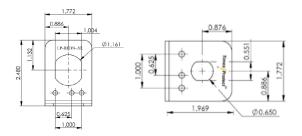
## **Specifications**



- LP-GTR-DFF
- LP-GTR-DFF-23
- LP-GTR-DFF-35 DC Pass DIN Type F/F



- LP-GTR-DFM
- LP-GTR-DFM-23
- LP-GTR-DFM-35
  DC Pass DIN Type F/M



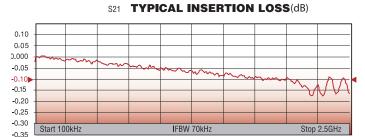
- Universal Right Angle Bracket Adaptor
- \*All dimensions shown in inches

Electrical Specifications				
Impedance		50 Ω		
Frequency Range		DC-2500 MHz		
VSWR/Return Loss		< 1.08:1 / <-28dB (DC to 1000MHz) < 1.1:1 / <-26dB (1000 to 2500MHz)		
Insertion Loss		< 0.1dB (DC-1000MHz) < 0.2dB (1000-2500MHz)		
Maximum Surge Current		20kA multiple (8x20µs wave-form)		
Part Number: LP-GTR-	DFF/DFM	DFF-23/DFM-23	DFF-35/DFM-35	
Impulse Sparkover	500V (1kV/μs)	700V (1kV/μs)	800(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 & IP 67		
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	220 to 300 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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