



LP-GTRD 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*



ISO 9001 Certified

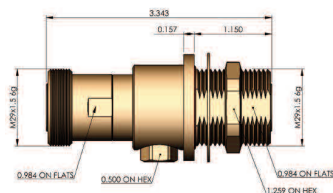


Lightning and Surge Protection for The 21st Century™

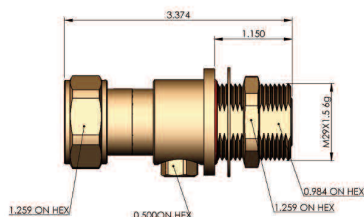
The **Times -Protect™** LP-GTRD series is an exceptional broadband DC pass design for lightning protection applications requiring DC power to be supplied to the electronics. Offering outstanding surge performance the LP-GTRD series is the perfect protection solution for distributed antenna systems, tower 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-GTRD series also has excellent power handling capability. The 716 DIN connector types can be used from DC through 2500MHz.

LP-GTRD Series:

- LP-GTR-DFF
716 DIN Female connectors on both sides - bidirectional
- LP-GTR-DFM
716 DIN Male connector on one side & 716 DIN Female connector on the other side - bidirectional



- LP-GTR-DFF
DC-2500MHz DC Pass DIN Type F/F



- LP-GTR-DFM
DC-2500MHz DC Pass DIN Type F/M

*All dimensions shown in inches

Electrical Specifications

Impedance	50 Ω
Frequency Range	DC-2500 MHz
VSWR/Return Loss	< 1.08:1 / < 28 dB (DC to 1000MHz) < 1.1:1 / < 26 dB (1000 to 2500MHz)
Insertion Loss	< 0.1 (DC-1000MHz) < 0.2 (1000-2500MHz)
Impulse Sparkover	500V (1kV/ μ s)
Turn-on	90Vdc
Average Power	50 Watts
Protection Circuit	DC Pass

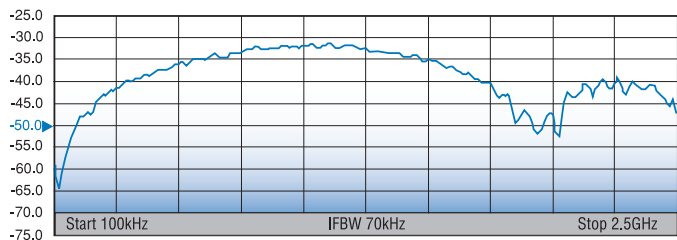
Mechanical / Environmental Specifications

Temp Range Storage/Operating	-40°C - +85°C
Weatherization	IEC 60068 40/085/21 & 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

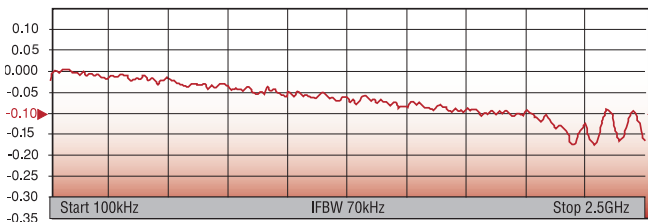
Material Specifications

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	--
O-Ring	Silicone Rubber	--

S11 **TYPICAL RETURN LOSS**(dB)



S21 **TYPICAL INSERTION LOSS**(dB)



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