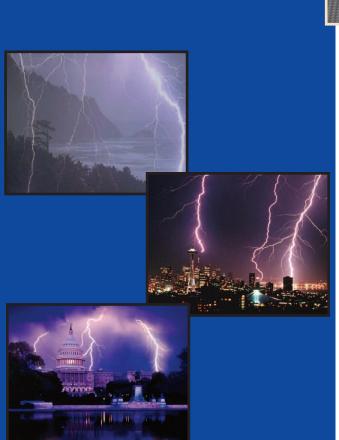


# Times Protect

### LP-GPX Series L1, L2 & L3 GPS Protector

- Bidirectional Filter Based Design
  - Outstanding IL/RL Characteristics
  - DC Blocked RF path for Superior Performance
- Solid State DC Path Protection Circuit
- Fully Weatherized Housing





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

The LP-GPX-05-N high performance series is an exceptional DC pass design for protection of GPS receivers requiring up to 5Vdc power to be supplied on the center pin.

While the RF path is DC blocked, the biased DC voltage protection circuit uses Solid State protection technology to provide unsurpassed surge performance. The LP-GPX-05-N series offers outstanding Insertion Loss and Return Loss characteristics over the 1000-2000MHz band, making it suitable for protection of commercial and military GPS, as well as other applications in this band.

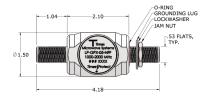
Unlike competitive protectors, the white bronze plated construction of the LP-GPX-05-N series eliminates potential galvanic corrosion issues and provides long life in hostile environments. The fully weatherized housing is sealed to IP65 allowing for outdoor as well as indoor installation.

#### LP-GPX-05-N Series:

- LP-GPX-05-NFF
   N Female connectors on surge and protected sides bidirectional
- LP-GPX-05-NFM
   N Male connector on one side & N Female connector on the other side - bidirectional

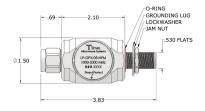


#### Times-Protect®





LP-GPX-05-NFF
 1000 - 2000MHz N Type F/F





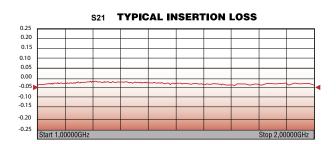
LP-GPX-05-NFM
 1000 - 2000MHz N Type F/M

Electrical Specifications					
Impedance		50 Ω			
Frequency Range		1000 - 2000 MHz			
VSWR/ Return Loss		1.2:1 / <-20dB			
Insertion Loss		< 0.1dB			
Average Power		50W			
Maximum Surge Current		10kA multiple (1.2x50/8x20µs wave-form)			
Turn on-Voltage		6Vdc			
Residual Pulse Voltage		< 12V (6kV/3kA 1.2x50/8x20µs wave-form)			
Energy Throughput		< 110μJ			
Protection Circuit		DC Blocked RF Path/Solid State DC Pass			
Mechanical / Environmental Specifications					
Temp Range Storage/Operating		-40°C - +85°C			
Weatherization		IEC 60529 IP65			
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			
Mating Life Cycle		> 500			
Recommended Coupling Nut Torque		7 - 10 in-lb			
Material Specifications					
Component	Material		Plating		
Body	Aluminum		White Bronze		
Connector Housing	Brass		White Bronze		
Inner Conductor Male	Brass		Silver		
Inner Conductor Female	Phoenhor Bronze		Silver		

	Connector Housing	Brass	White Bronze
	Inner Conductor Male	Brass	Silver
	Inner Conductor Female	Phosphor Bronze	Silver
	Coupling Nut	Brass	White Bronze
	Insulator	PTFE	
	0-Ring	Silicone Rubber	
<del>-</del>	-		

<sup>\*</sup>All dimensions shown in inches







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