

LP-HBR-N Series

- 1.8 MHz to 100 MHz
- Covers 160-6 Meter Bands
- 2 kW Average RF Path
- Multi-Strike Capability
- Less than 0.1dB Insertion Loss
- Type N Connectors
- White Bronze Plated Body
- IP 65 Rated for Outdoor Use
- Bulkhead or Flange Installation







Lightning and Surge Protection for The 21st CenturyTM

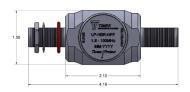
The **Times Protect**® LP-HBR-N series high performance surge arrestor series addresses applications in the 1.8MHz-100MHz spectrum that includes the *160-6 Meter Amateur Radio Bands*. Our DC blocking technology employed in this gas tube design provides optimum isolation of the antenna port from the protected equipment port for maximum surge protection. LP-HBR-N series surge protectors have exceptional RF performance and are constructed from the highest quality materials for unsurpassed durability and longevity. They equal or surpass all applicable industry standards.

The LP-HBR-N series product family is available with N connector configurations to satisfy various installation requirements.

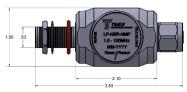
LP-HBR-N Series:

- LP-HBR-NFF
 N Female connectors on surge and protected sides
- LP-HBR-NMP
 N Male connector on protected side with N Female connector on surge side
- LP-HBR-NMS
 N Male connector on surge side with N Female connector on protected side

Times-Protect®

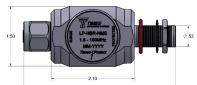


LP-HBR-NFF
 1.8-100 MHz DC Blocked N Type F/F



LP-HBR-NMP

1.8-100 MHz DC blocked N Male on Protected Side



LP-HBR-NMS
 1.8-100 MHz Blocked N Male on Surge Side







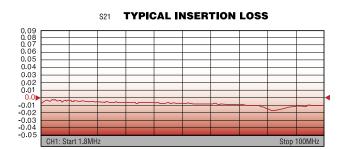
Male End

Included Mounting Bracket

Female End

Electrical Specifications			
Impedance		50 Ohm	
Frequency Range		1.8 MHz - 100 MHz	
Maximum VSWR/Return Loss		<1.06:1 / <-30dB	
Insertion Loss		< 0.1dB	
Power Handling - Average		2000 Watts	
Maximum Peak RF Voltage		4400 Volts	
Maximum Surge Current		20 kA Single Strike	
Multiple Strikes		10kA (8x20µs wave-form)	
Energy Throughput Rating		<12 mJ	
Impulse Spark-Over Voltage		2000 Volts Nominal	
DC Turn On Voltage		1400 Volts Nominal	
Protection Circuit		DC Blocked, Uni-Directional	
Mechanical / Environmental Specifications			
Temp Range Storage/Operating		-40°C - +85°C / -40°C - +50°C	
Weatherization		IP 65	
Vibration		US MIL-STD 202, Method 204-B	
RoHS Compliant		Yes	
Mating Life Cycle		> 500	
Recommended Coupling Nut Torque			
Unit Weight		8.0 oz / 227g	
Material Specifications			
Component	Material		Plating
Body	Aluminum		White Bronze
Inner Conductor Male	Brass		Silver
Inner Conductor Female	'		Silver
Coupling Nut	Brass		White Bronze
Insulator	PTFE		
0-Ring	Silicone Rubber		







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^{*}All dimensions shown in inches