

LP-HBR-U Series

- 1.8MHz to 100MHz
- Covers 160-6 Meter Bands
- 2 kW Average RF Power Rating
- DC Blocked RF Path
- Multi-Strike Capability
- Less Than 0.1 dB Insertion Loss
- UHF 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-U series high performance surge arrestor series addresses applications in the 1.8MHz - 100MHz spectrum that includes the 160-6 meter amatuer radio bands.

Our unique 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-U 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-U series product family is available with three connector configurations to satisfy various installation requirements.

LP-HBR-U Series:

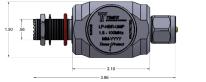
- LP-HBR-UFF
 UHF Female connectors on surge and protected sides
- LP-HBR-UMP UHF Male connector on protected side with UHF Female connector on surge side
- LP-HBR-UMS UHF Male connector on surge side with UHF Female connector on protected side





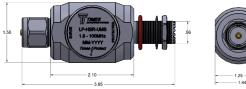


 LP-HBR-UFF 1.8 - 100MHz DC Blocked UHF Type F/F





- LP-HBR-UMP
- 1.8 100MHz DC Blocked UHF Male on Protected Side



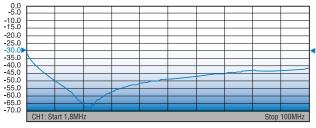


- LP-HBR-UMS
 - 1.8 100MHz DC Blocked UHF Male on Surge Side



LP-BFU-AL Bracket (Included)

*All dimensions shown in inches





Electrical Specifications			
Impedance		50 Ω	
Frequency Range		1.8 MHz - 100MHz	
VSWR/Return Loss		<1.06:1 / <-30dB	
Insertion Loss		< 0.1dB	
Maximum Peak RF Voltage		4400 Volts	
Maximum Surge Current		20 kA Single Strike	
Energy Throughput Rating		<12 mJ	
Power Handling - Average		2000 Watts	
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		7 to 10 in-lb	
Unit Weight		8.0 oz / 227g	
	Material S	pecification	าร
Component	Ма	terial	Plating
Body	Aluminum		White Bronze
Inner Conductor Male	Brass		Silver
Inner Conductor Female	Phosphor Bronze		Silver
Coupling Nut	Brass		White Bronze
Insulator	PTFE		
0-Ring	Silicone Rubber		

0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.03 0.02 0.01 0.01 -0.01 -0.02 -0.03 -0.04 -0.05 CH1: Start 1.8MHz Stop 100MHz

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TYPICAL INSERTION LOSS



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