

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 Century™

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









Impedance

Frequency Range

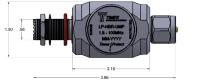
VSWR/Return Loss Insertion Loss

Maximum Peak RF Voltage

Maximum Surge Current

Energy Throughput Rating

 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





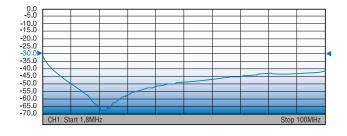
1.8 - 100MHz DC Blocked UHF Male on Surge Side



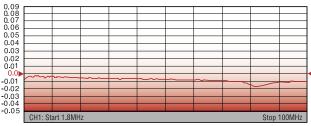
LP-BFU-AL Bracket (Included)

*All dimensions shown in inches

S11



TYPICAL RETURN LOSS





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TYPICAL INSERTION LOSS S21

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 Specifications			
Component	Material		Plating
Body	Aluminum		White Bronze
Inner Conductor Male	Brass		Silver
Inner Conductor Female	Phosphor Bronze		Silver
Coupling Nut	Brass		White Bronze
Insulator	PTFE		
	Silicone Rubber		
0-Ring	Silicone Ru	hher	

Electrical Specifications 50 Ω

1.8 MHz - 100MHz

20 kA Single Strike

<1.06:1 / <-30dB

< 0.1dB 4400 Volts

<12 mJ