

## LP-HBX-D Series

- DC Blocked for Maximum RF Surge Protection
- Multi-Strike Capability
- Broadband Performance from 100MHz up to 700MHz
- Exceptional RF Characteristics
- High Power Design for Single & Multi Channel Coax Applications
- Universal Mounting/Grounding Bracket Included





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

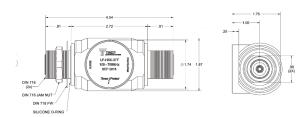
The **Times Protect** LP-HBX-D series high performance surge arrestor series addresses applications in the 100MHz-700MHz spectrum. Our unique DC blocking technology employed in this design provides optimum isolation of the antenna port from the protected equipment port for maximum surge protection. LP-HBX-D series surge protectors have exceptional RF performance and are constructed from the highest quality materials for unsurpassed durability and longevity. These units meet and surpass all applicable industry standards.

The LP-HBX-D series product family is available with DIN connector configurations to satisfy various installation requirements.

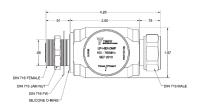
## LP-HBX-D Series:

- LP-HBX-DFF DIN Female connectors on surge and protected sides
- LP-HBX-DMP
   DIN Male connector on protected side with DIN Female connector on surge side
- LP-HBX-DMS
   DIN Male connector on surge side with DIN Female connector on protected side

## Times-Protect®

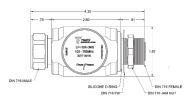


• LP-HBX-DFF DC Blocked DIN Type Female/Female



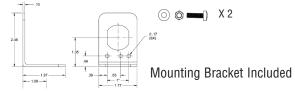


LP-HBX-DMP
 DC Blocked DIN Type Male on Protected





• LP-HBX-DMS DC Blocked DIN Type Male on Surge



	S11 TYPICAL RETURN LOSS									
-10.0										
-15.0 -20.0										
25.0										
-30.0	_	_								
-35.0▶										
-40.0 -45.0					~~~	~~~		~~~		
50.0										
-55.0										
-60.0	Start 10	OMH2							Ston	700MHz

Electrical Specifications								
Impedance		50 Ω						
Frequency Range		100-700 MHz						
VSWR/Return Loss		<1.15:1 / <-23dB (100-150 MHz) <1.1:1 / <-26dB (150-700 MHz)						
Insertion Loss		< 0.1dB						
Impulse Discharge Curre	nt	20KA multiple (8x20µs wave-form)						
Residual Pulse Voltage		<5V@6kV/3kA (8x20µs wave-form)						
Energy Throughput Ratin	ıg	<1.4µJ @ 6kV/3kA (8x20µs wave-form)						
Power Handling		750 Watts						
Protection Circuit		DC Blocked						
Mechanical / Environmental Specifications								
Temp Range Storage/Op		-40°C - +85°C / -40°C - +50°C						
Tomp hange oforage/op	erating	-40°C - +85°	°C / -40°C - +50°C					
Weatherization	erating	-40°C - +85° IP 65	°C / -40°C - +50°C					
	erating	IP 65	°C / -40°C - +50°C 0 202, Meth.107,Cond.B					
Weatherization	erating	IP 65 US MIL-STE						
Weatherization Thermal Shock	erating	IP 65 US MIL-STD US MIL-STD	202, Meth.107,Cond.B					
Weatherization Thermal Shock Vibration	erating	IP 65 US MIL-STD US MIL-STD	202, Meth.107,Cond.B 202, Meth.204,Cond.B					
Weatherization Thermal Shock Vibration Shock	erating	US MIL-STD US MIL-STD US MIL-STD	202, Meth.107,Cond.B 202, Meth.204,Cond.B					
Weatherization Thermal Shock Vibration Shock RoHS Compliant		IP 65 US MIL-STD US MIL-STD US MIL-STD Yes > 500	202, Meth.107,Cond.B 202, Meth.204,Cond.B 202, Meth.213,Cond.I					
Weatherization Thermal Shock Vibration Shock RoHS Compliant Mating Life Cycle		IP 65 US MIL-STD US MIL-STD US MIL-STD Yes > 500	202, Meth.107,Cond.B 202, Meth.204,Cond.B 202, Meth.213,Cond.I					
Weatherization Thermal Shock Vibration Shock RoHS Compliant Mating Life Cycle Recommended Coupling Unit Weight	Nut Torque	US MIL-STD US MIL-STD US MIL-STD Yes > 500 220 to 300 i	202, Meth.107,Cond.B 202, Meth.204,Cond.B 202, Meth.213,Cond.I					

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						
0-Ring	Silicone Rubber						

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

