

ISO 9001 Certified

LP-HBX-N Series

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



Lightning and Surge Protection for The 21st Century™

The **Times Protect®** LP-HBX-N series high performance surge arrester 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-N 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.

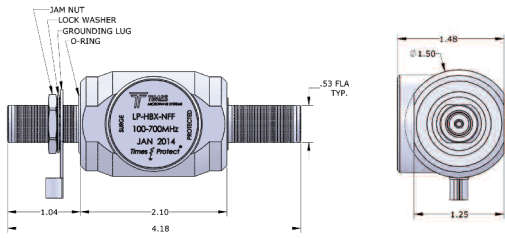
The LP-HBX-N series product family is available with N connector configurations to satisfy various installation requirements.

LP-HBX-N Series:

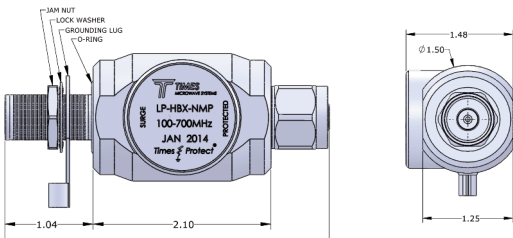
- LP-HBX-NFF
N Female connectors on surge and protected sides
- LP-HBX-NMP
N Male connector on protected side with N Female connector on surge side
- LP-HBX-NMS
N Male connector on surge side with N Female connector on protected side



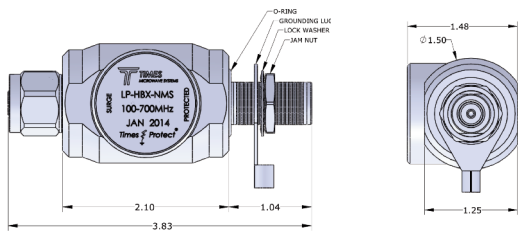
Times-Protect[®]



- LP-HBX-NFF
100-700MHz DC Blocked N Type F/F



- LP-HBX-NMP
100-700MHz DC Blocked N Type M on Protected

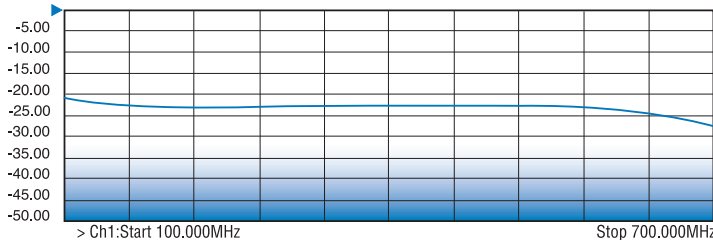


- LP-HBX-NMS
100-700MHz DC Blocked N Type M on Surge

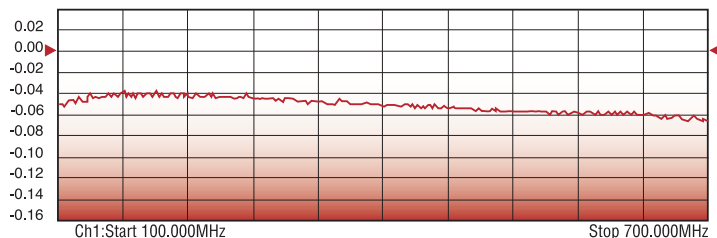
*All dimensions shown in inches

Electrical Specifications		
Impedance	50 Ω	
Frequency Range	100-700 MHz	
VSWR/Return Loss	<1.15:1 / <-23dB	
Insertion Loss	< 0.1dB	
Impulse Discharge Current	20KA multiple (8x20μs wave-form)	
Residual Pulse Voltage	<5V@6kV/3kA (8x20μs wave-form)	
Energy Throughput Rating	<1.4μJ (6kV/3kA 1.2x50/8x20μs wave-form)	
Power Handling	750 Watts	
Protection Circuit	DC Blocked	
Mechanical / Environmental Specifications		
Temp Range Storage/Operating	-40°C - +85°C / -40°C - +50°C	
Weatherization	IP 65	
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 to 10 in-lb	
Unit Weight	0.2kg/pc / 0.4lb	
Material Specifications		
Component	Material	Plating
Body	Brass	White Bronze
Inner Conductor Male	Brass	Silver
Inner Conductor Female	Phosphor Bronze	Silver
Coupling Nut	Brass	White Bronze
Insulator	PTFE	--
O-Ring	Silicone Rubber	--

S11 **TYPICAL RETURN LOSS**



S21 **TYPICAL INSERTION LOSS**



World Headquarters: 358 Hall Avenue, Wallingford, CT 06492 • Tel: 203-949-8400, 1-800-867-2629 • Fax: 203-949-8423
 International Sales: 4 School Brae, Dysart, Kirkcaldy, Fife, Scotland KY1 2XB UK • Tel: +44(0)1592655428
 China Sales: No. 318 Yuan Shan Road, Shanghai 201108 China • Tel: 86-21-51761234 • Fax: 86-21-64424098
www.timesmicrowave.com

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