



ISO 9001 Certified

## *LP-WBX Series*

- *Filter based Protection Circuit*
  - *Broadband Outstanding IL/RL*
  - *DC Blocked for Superior Surge Performance*
  - *Ultra Broadband Multi-Strike Design*
- *Fully Weatherized Housing*



## *Lightning and Surge Protection for The 21st Century™*

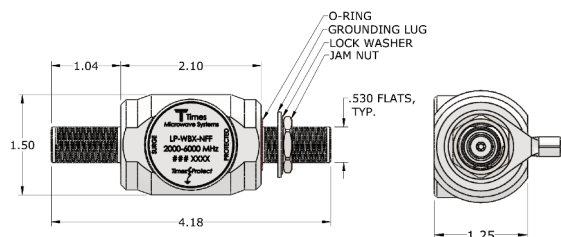
The LP-WBX-N high performance series uses a filter circuit to provide exceptional lightning protection over the 2000-6000MHz frequency band, covering both the unlicensed WiFi bands and several licensed operating bands.

Unlike competitive protectors, the white bronze plated construction of the LP-WBX-N series eliminates potential galvanic corrosion issues and provides long life in hostile environments. The fully weatherized housing is sealed to IP65 allowing for outdoor as well as indoor installation.

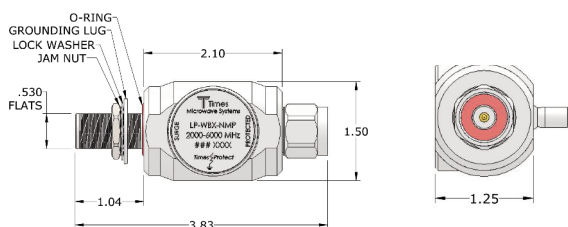
### LP-WBX-N Series:

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

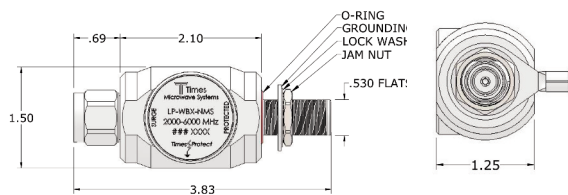




- LP-WBX-NFF  
2000 - 6000MHz N Type F/F



- LP-WBX-NMP  
2000 - 6000MHz N Type M on Protected



- LP-WBX-NMS  
2000 - 6000MHz N Type M on Surge

\*All dimensions shown in inches

## Electrical Specifications

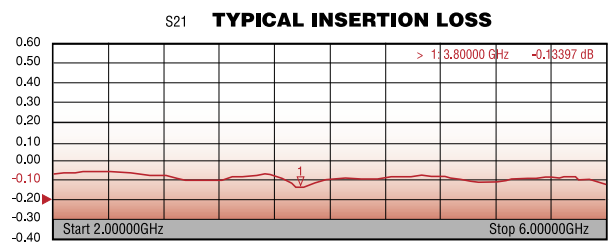
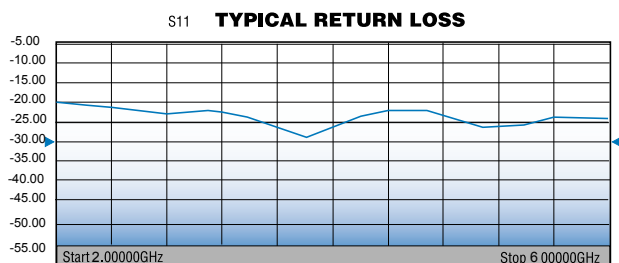
Impedance	50 $\Omega$
Frequency Range	2000 - 6000 MHz
VSWR/Return Loss	<1.2:1 / <-20dB
Insertion Loss	< 0.2dB
Average Power	50W
Maximum Surge Current	20kA max / 10kA multiple (8x20 $\mu$ s wave-form)
Residual Pulse Voltage	< 3V (6kV/3kA 1.2x50/8x20 $\mu$ s wave-form)
Energy Throughput	<150nJ
Protection Circuit	DC Blocked

## Mechanical / Environmental Specifications

Temp Range Storage/Operating	-40°C - +85°C
Weatherization	IEC 60529 & IP65
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	7-10 in-lb

## Material Specifications

Component	Material	Plating
Body	Aluminum	White Bronze
Connector Housing	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	--



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