



## *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™*

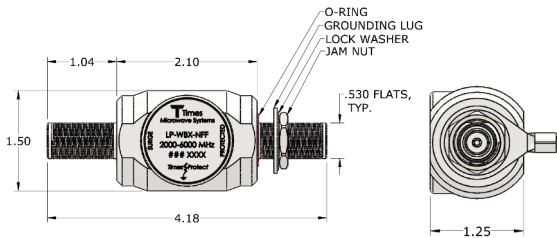
The LP-WBX-N high performance series uses a filter circuit to provide exceptional lightning protection over the 2000-6000MHz frequency band, covering both the unlicensed WiFi bands and several licensed operating bands.

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.

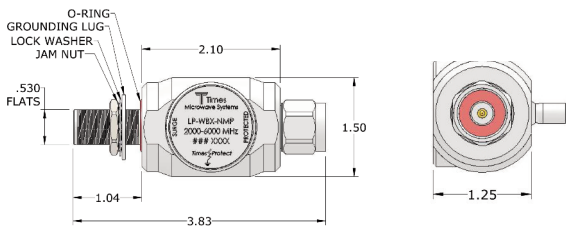
### LP-WBX-N Series:

- 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

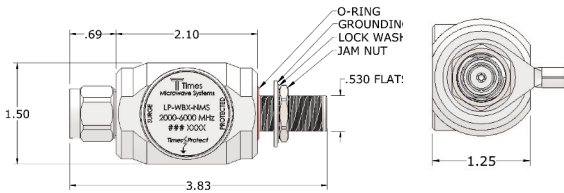




- LP-WBX-NFF  
2000 - 6000MHz N Type F/F



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



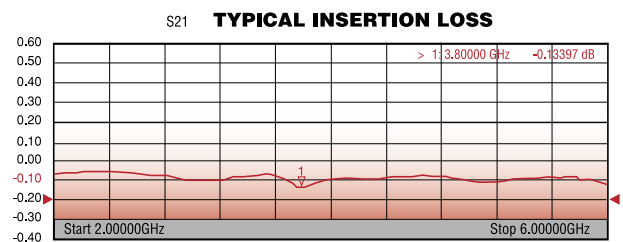
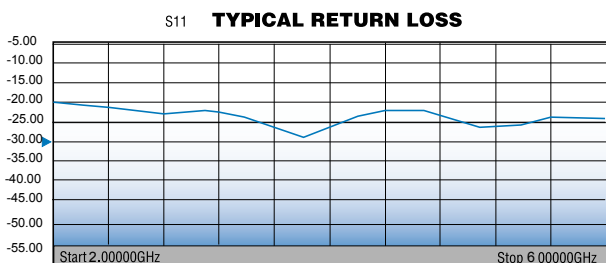
- LP-WBX-NMS  
2000 - 6000MHz N Type M on Surge

\*All dimensions shown in inches

| Electrical Specifications |   |
|---------------------------|---|
| Impedance                 | 50 Ω  |
| 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 (8x20μs wave-form) |
| Residual Pulse Voltage    | < 3V (6kV/3kA 1.2x50/8x20μs 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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