



ISO 9001 Certified

### *LP-STRN Series*

- *Excellent PIM Performance*
- *Outstanding IL/RL Characteristics*
- *DC Blocked for Superior Surge Performance*
- *High Surge Current Rating*
- *Broadband Multi-Strike Design*
- *High Power Rated*
- *Fully Weatherized Housing*
- *Solid Brass Construction for Durability and Long Life*

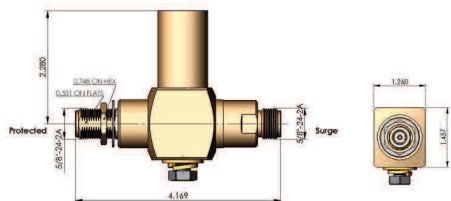


### *Lightning and Surge Protection for The 21st Century™*

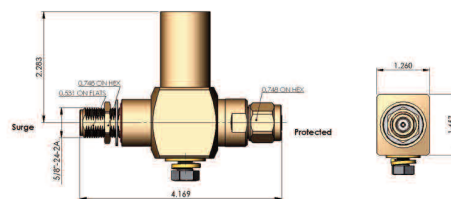
The **Times-Protect™** LP-STRN high performance series is an exceptional DC blocked design for outstanding surge performance, capable of withstanding multiple lightning strikes. The operating band width of 800MHz-2500MHz makes the LP-STRN series suitable for a broad range of applications. With its excellent passive intermodulation performance, outstanding RF performance over the entire operating band and excellent handling capability, the LP-STRN product family is unequalled. Its fully weatherized housing meeting IP67 standard allows for outdoor as well as indoor installation. The LP-STRN series has high power handling capability and is suitable for multi-strike applications.

#### LP-STRN Series:

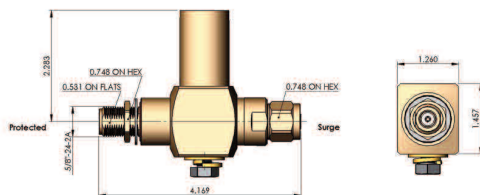
- LP-STR-NFF  
N Female connectors on surge and protected sides
- LP-STR-NMP N Male connector on protected side with N Female connector on surge side
- LP-STR-NMS  
N Male connector on surge side with N Female connector on protected side



- LP-STR-NFF  
800-2500MHz DC Blocked N Type F/F



- LP-STR-NMP  
800-2500MHz DC Blocked N Type M on Protected



- LP-STR-NMS  
800-2500MHz DC Blocked N Type M on Surge

\*All dimensions shown in inches

## Electrical Specifications

|                          |   |
|--------------------------|---|
| Impedance                | 50 Ω                                    |
| Frequency Range          | 800-2500 MHz                            |
| VSWR/Return Loss         | < 1.15:1 / <-26dB                       |
| Insertion Loss           | < 0.1dB                                 |
| Average Power            | 500 Watts                               |
| PIM                      | <-160 dBc                               |
| Maximum Surge Current    | 50kA (8x20μs wave-form)                 |
| Residual Pulse Voltage   | < 100V (50kA 8x20μs wave-form)          |
| Residual Pulse Voltage   | < 1V (4kV/2kA 1.2x50/8x20μs wave-form)  |
| Energy Throughput Rating | < 1nJ (4kV/2kA 1.2x50/8x20μs wave-form) |
| Protection Circuit       | DC Blocked                              |

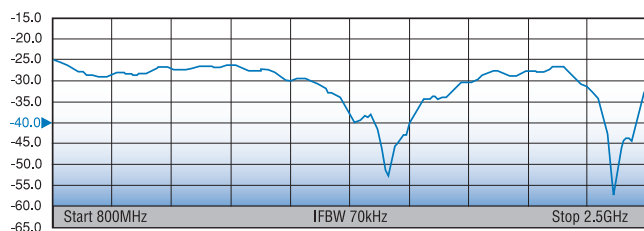
## Mechanical / Environmental Specifications

|                                 |                                 |
|---------------------------------|---------------------------------|
| Temp Range Storage/Operating    | -40°C - +85°C                   |
| Weatherization                  | IEC 60068 55/155/56 & IP67      |
| 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                             |
| Wear/Mating Cycles              | 500 minimum                     |
| Recommended Coupling Nut Torque | 7 to 10 in-lb                   |

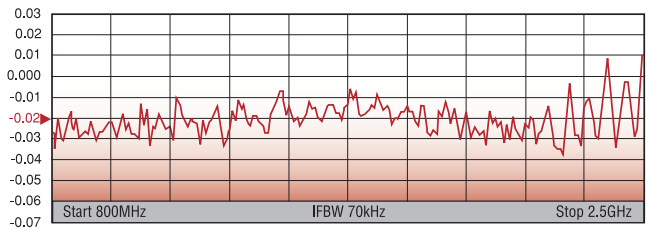
## Material Specifications

| 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(dB)



S21 TYPICAL INSERTION LOSS(dB)



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