ISO 9001 Certified

Times Protect®

LP-STRL-N Series

- *Long Term Evolution (LTE) and 700 MHz Public Safety Applications*
- *Excellent PIM Performance*
- *Outstanding IL/RL Characteristics*
- *DC Blocked for Superior Surge Performance*
- *High Surge Current/Power Rated*
- *Broadband Multi-Strike Design*
- *Fully Weatherized Housing*
- *Solid Brass Construction for Durability and Long Life*



Lightning and Surge Protection for The 21st Century™



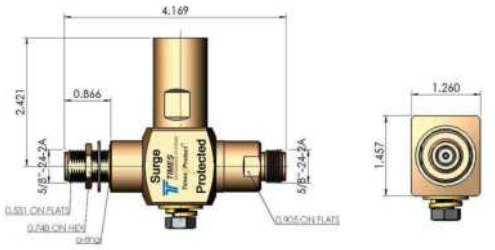
The **Times Protect®** LP-STRL-N high performance series is an exceptional DC blocked design for outstanding surge performance, capable of withstanding multiple lightning strikes. The operating band width of 680MHz - 2200MHz makes the LP-STRL-N series suitable for a broad range of applications. This design covers the 700MHz Band for Public Safety Services as well as LTE (Long Term Evolution) applications. With its excellent passive intermodulation performance, outstanding RF performance over the entire operating band and superior power handling capability, the LP-STRL-N product family is unequaled. Its fully weatherized housing meeting IP67 standard allows for outdoor as well as indoor installation.

LP-STRL-N Series:

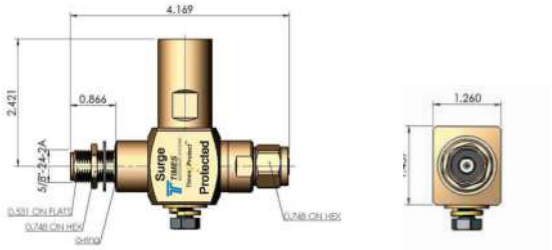
- LP-STRL-NFF
  N Female connectors on surge and protected sides
- LP-STRL-NMP
  N Male connector on protected side with N Female connector on surge side
- LP-STRL-NMS
  N Male connector on surge side with N Female connector on protected side

TIMES MICROWAVE SYSTEMS
An Amphenol Company

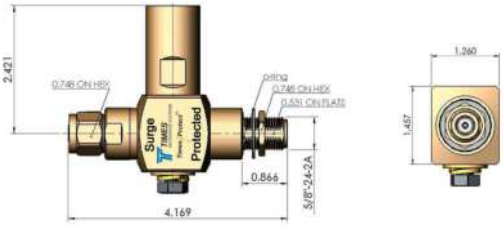
Times-Protect®



• LP-STRL-NFF
680-2200MHz DC Blocked N Type F/F



• LP-STRL-NMP
680-2200MHz DC Blocked N Type M on Protected



• LP-STRL-NMS
680-2200MHz DC Blocked N Type M on Surge

*All dimensions shown in inches

Electrical Specifications

Impedance	50 Ω
Frequency Range	680-2200 MHz
VSWR/Return Loss	< 1.13:1 / <-24dB (680-700MHz) < 1.1:1 / <-26dB (700-2200MHz)
Insertion Loss	< 0.1dB
Average Power	500 Watts
PIM	<-160dBc
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

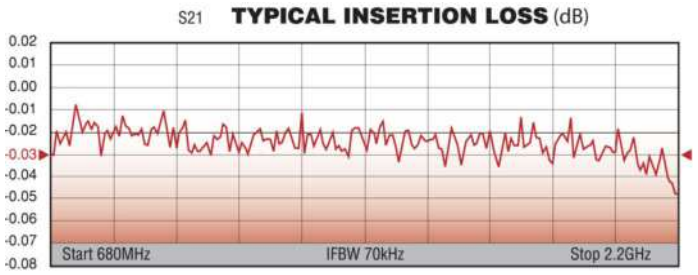
Mechanical / Environmental Specifications

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
Unit Weight	0.53kg/pc / 1.17lb

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	--





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