



ISO 9001 Certified

LP-STRL-D 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



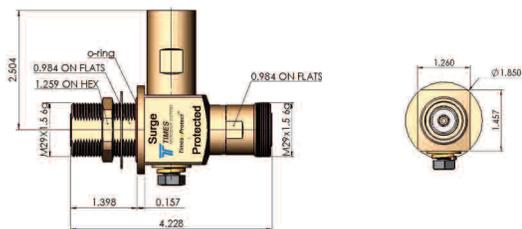
100% PIM Tested

Lightning and Surge Protection for The 21st Century™

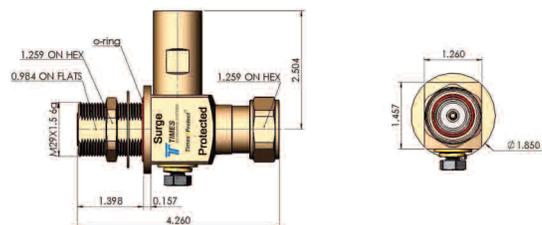
The Times Protect® high performance series is an exceptional DC blocked design for outstanding surge performance, capable of withstanding multiple lightning strikes. The operating bandwidth of 680MHz-2200MHz makes the LP-STRL-D series suitable for a broad range of applications. This design covers the 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-D product family is unequalled. Its fully weatherized housing meeting IP67 standard allows for outdoor as well as indoor installation.

- LP-STRL-DFF
716 DIN Female connectors on surge and protected side
- LP-STRL-DMP
716 DIN Male connector on protected side with 716 DIN Female connector on surge side
- LP-STRL-DMS
716 DIN Male connector on surge side with 716 DIN Female connector on protected side

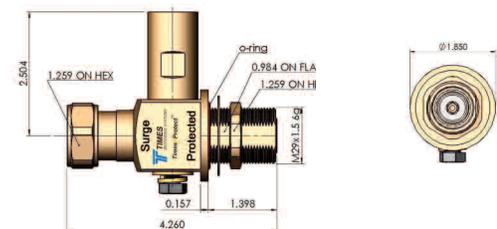




- LP-STRL-DFF
680-2200MHz DC Blocked DIN Type F/F



- LP-STRL-DMP
680-2200MHz DC Blocked DIN Type M on Protected



- LP-STRL-DMS
680-2200MHz DC Blocked DIN 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	700 Watts
PIM	<-160 dBc
Maximum Surge Current	50kA (8/20μs wave-form)
Residual Pulse Voltage	< 100V (50kA 8/20μs 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

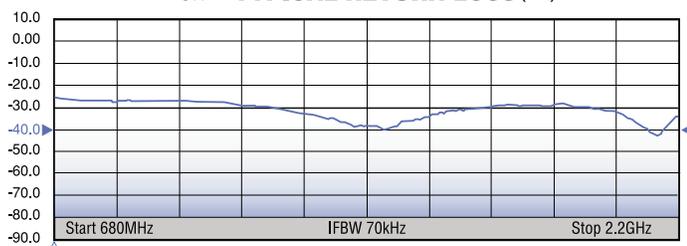
Mechanical / Environmental Specifications

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
Mating Life Cycle	> 500
Recommended Coupling Nut Torque	220 to 300 lb-in
Unit Weight	0.6kg/pc \ 1.32lb

Material Specifications

Component	Material	Plating
Body	Brass	White Bronze
Inner Conductor Male	Brass	Silver
Inner Conductor	Phosphor Bronze	Silver
Coupling Nut	Brass	White Bronze
Insulator	PTFE	--
O-Ring	Silicone Rubber	--

S11 TYPICAL RETURN LOSS (dB)



S21 TYPICAL INSERTION LOSS (dB)

