



ISO 9001 Certified

LP-STR-D Series

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

100% PIM
Tested



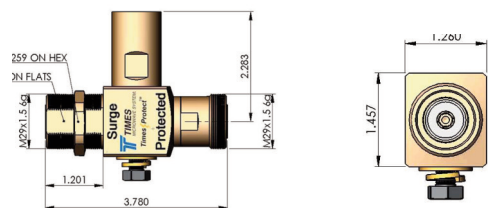
Lightning and Surge Protection for The 21st Century™

The **Times Protect®** LP-STR-D high performance series is an exceptional DC blocked design for outstanding surge performance. The operating bandwidth of 800MHz-2500MHz makes the LP-STR-D series suitable for a broad range of applications. With its excellent passive intermodulation performance, outstanding RF performance over the entire operating band and superior power handling capability, the LP-STR-D product family is unequalled. Its fully weatherized housing meeting IP67 standard allows for outdoor as well as indoor installation.

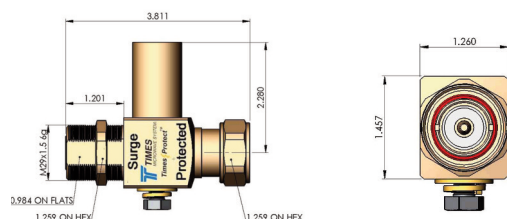
LP-STR-D Series:

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

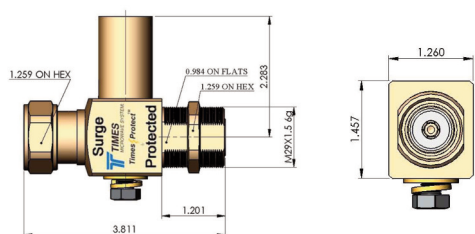




- LP-STR-DFF
800-2500MHz DC Blocked DIN Type F/F



- LP-STR-DMP
800-2500MHz DC Blocked DIN Type M on Protected



- LP-STR-DMS
800-2500MHz DC Blocked DIN Type M on Surge

*All dimensions shown in inches

Electrical Specifications

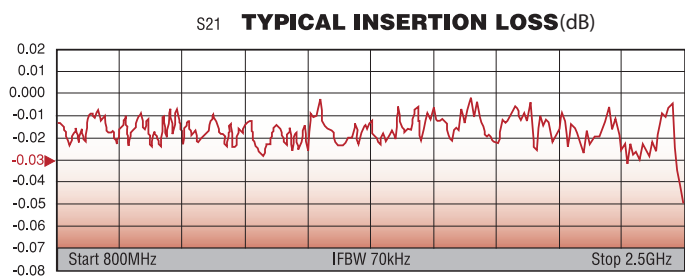
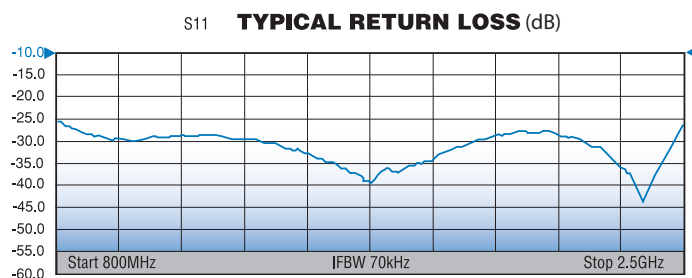
Impedance	50 Ω
Frequency Range	800-2500 MHz
VSWR / Return Loss	<1.13:1 / <-24dB (800-840MHz) <1.1:1 / <-26dB (840-2500MHz)
Insertion Loss	< 0.1dB
Average Power	700 Watts
PIM	<-160 dBc
Maximum Surge Current	50kA (8/20 μ s wave-form)
Residual Pulse Voltage	< 100V (50kA 8/20 μ s wave-form)
Residual Pulse Voltage	< 1V (4kV/2kA 1.2x50/8x20 μ s wave-form)
Energy Throughput Rating	< 1nJ (4kV/2kA 1.2x50/8x20 μ s 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 Female	Phosphor Bronze	Silver
Coupling Nut	Brass	White Bronze
Insulator	PTFE	--
O-Ring	Silicone Rubber	--



World Headquarters: 358 Hall Avenue, Wallingford, CT 06492 • Tel: 203-949-8400, 1-800-867-2629 • Fax: 203-949-8423

International Sales: 4 School Brae, Dysart, Kirkcaldy, Fife, Scotland KY1 2XB UK • Tel: +44(0)1592655428

China Sales: No. 318 Yuan Shan Road, Shanghai 201108 China • Tel: 86-21-51761234 • Fax: 86-21-64424098

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LP-STRD-1 02/16



LP-STR-N 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



**100% PIM
Tested**

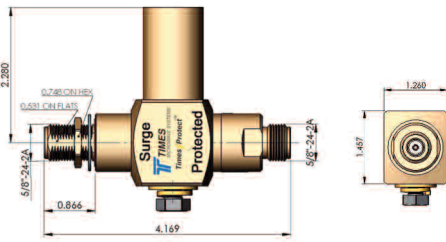


Lightning and Surge Protection for The 21st Century™

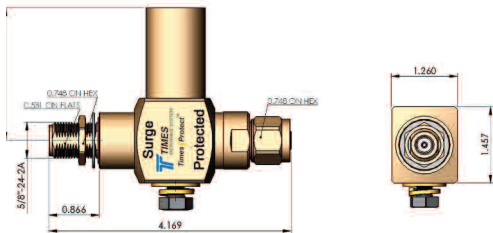
The **Times Protect®** LP-STR-N high performance series is an exceptional DC blocked design for superior surge performance, capable of withstanding multiple lightning strikes. The operating band width of 800MHz-2500MHz makes the LP-STR-N series suitable for a broad range of applications. With its excellent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

LP-STR-N Series:

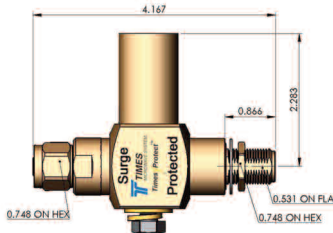
- LP-STR-NFF
N Female connectors on surge and protected sides
- LP-STR-NMP
N Male connector on protected side with N Female connector on surge side
- LP-STR-NMS
N Male connector on surge side with N Female connector on protected side



- 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	< 1.13:1 / <-24dB (800-840MHz) < 1.1:1 / <-26dB (840-2500MHz)
Insertion Loss	< 0.1dB
Average Power	500 Watts
PIM	<-160 dBc
Maximum Surge Current	50kA (8x20 μ s wave-form)
Residual Pulse Voltage	< 100V (50kA 8x20 μ s wave-form)
Residual Pulse Voltage	< 1V (4kV/2kA 1.2x50/8x20 μ s wave-form)
Energy Throughput Rating	< 1nJ (4kV/2kA 1.2x50/8x20 μ s wave-form)
Protection Circuit	DC Blocked

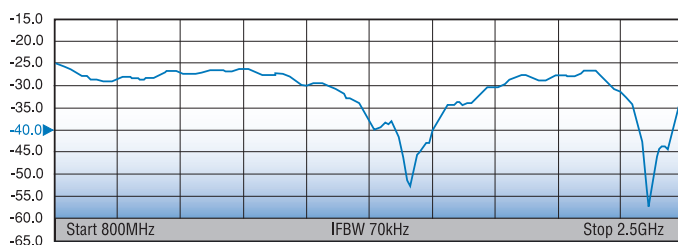
Mechanical / Environmental Specifications

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

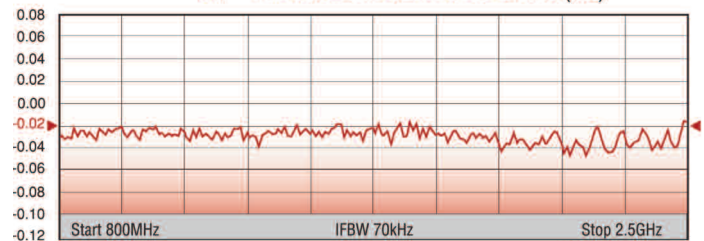
Material Specifications

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	--

S11 **TYPICAL RETURN LOSS**(dB)



S21 **TYPICAL INSERTION LOSS**(dB)



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