



## LP-BTRW Series

- IP67 Weatherized for Outdoor Use
- DC Blocked for Maximum Surge Protection
- Multi-Strike Capability
- Broadband Performance From 20MHz up to 1000MHz
- Exceptional RF Characteristics
- Solid Brass White Bronze Plated Construction for Durability and Long Life
- Universal Grounding Bracket Supplied



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

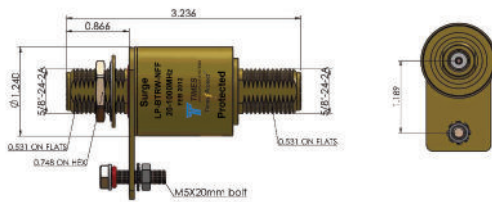
The Times Protect® LP-BTRW high performance surge arrestor series addresses applications in the 20MHz-1000MHz spectrum. Our unique DC blocking technology employed in this design provides optimum isolation of the antenna port from the protected equipment port for maximum surge protection.

LP-BTRW surge protectors have exceptional RF performance and are constructed from the highest quality materials for unsurpassed durability and longevity. These units meet and surpass all applicable industry standards.

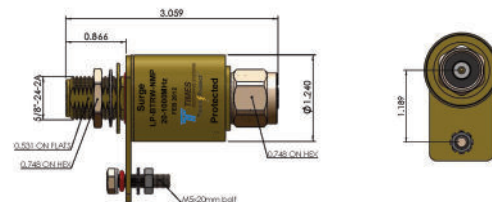
The LP-BTRW product family is available with N connector configurations and fully weatherized to the IP67 standard for outdoor use.

### LP-BTRW Series:

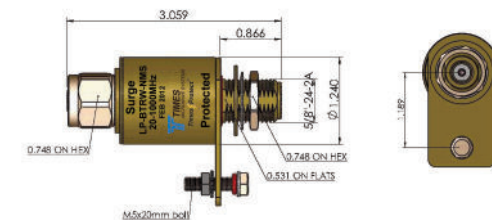
- LP-BTRW-NFF  
N Female connectors on surge and protected sides
- LP-BTRW-NMP  
N Male connector on protected side with N Female connector on surge side
- LP-BTRW-NMS  
N Male connector on surge side with N Female connector on protected side



- LP-BTRW-NFF  
20-1000MHz DC Blocked N Type F/F



- LP-BTRW-NMP  
20-1000MHz DC Blocked N Type M on Protected



- LP-BTRW-NMS  
20-1000MHz DC Blocked N Type M on Surge

\*All dimensions shown in inches

## Electrical Specifications

Impedance	50 $\Omega$
Frequency Range	20-1000 MHz
VSWR/Return Loss	<1.1:1 / <-26dB
Insertion Loss	< 0.1dB
Impulse Discharge Current	10KA multiple (8x20 $\mu$ s wave-form)
Turn-on Voltage	600V $\pm$ 20%
Turn-on Time	2.5ns for 2kV/ns
Energy Throughput Rating	<200 $\mu$ J (6kV/3kA 1.2x50/8x20 $\mu$ s wave-form)
Power Handling at Frequency	375W (20-220MHz) 125W (220-700MHz) 50W (700-1000MHz)
Protection Circuit	DC Blocked

## Mechanical / Environmental Specifications

Temp Range Storage/Operating	-40°C - +85°C / -40°C - +50°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	7 to 10 in-lb
Unit Weight	0.25kg/pc / 0.55lb

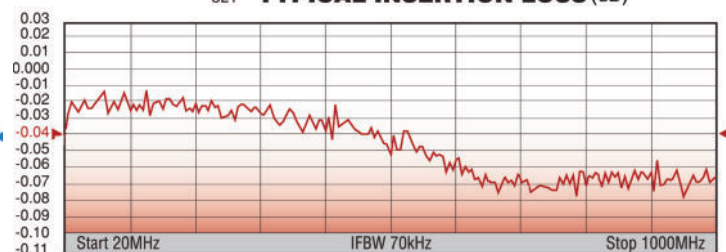
## Material Specifications

Component	Material	Plating
Body	Brass	White Bronze
Inner Conductor Male	Brass	Silver
Inner Conductor Female	Phosphor Bronze	Silver
Outer Conductor	Brass	White Bronze
Coupling Nut	Brass	White Bronze
Insulator	PTFE	--

S11 TYPICAL RETURN LOSS (dB)



S21 TYPICAL INSERTION LOSS (dB)



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