

## 4.3-10 PREMIUM RF SURGE PROTECTION

# TSX Series

The TSX-4310FF and TSX-4310FM are the latest addition to the PolyPhaser TSX family of ultra-low PIM DC short surge protectors. Using patented SX™ filter design combined with a 4.3-10 connector the bidirectional PolyPhaser TSX-4310 delivers to 4G and LTE networks significant advantages in both PIM performance and surge capacity, while occupying 40 percent less space than traditional designs.



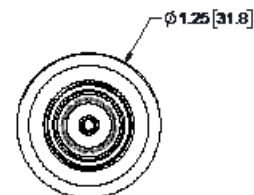
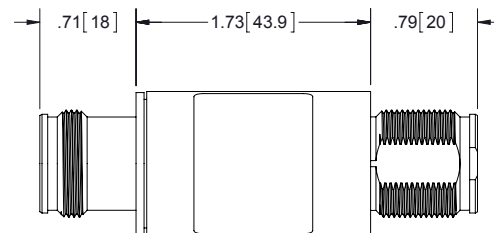
TSX-4310FM

### FEATURES

- 40 kA lightning surge rating
- Low let through energy (<300 nJ) for the ultimate protection of equipment
- PIM -122 dBm (2 x 5 W) input
- Ideal for 4G LTE and cell bands from 698 MHz to 2.7 GHz
- Fully weatherized housing
- Multi-strike capability
- Bulkhead mounting
- 4.3-10 connector female-female and female-male

### STANDARDS

- IEC 60529 IP67
- RoHS and CE compliant
- Surge performance – IEC 61000 - 4-5 8/20  $\mu$ s waveform



TSX-4310FF

### SPECIFICATIONS

Description	TSX-4310FF	TSX-4310FM
Connector	Female / Female	Female / Male
Connector Type	4.3-10 @ 50 $\Omega$	
Frequency Range	698 MHz to 2.7 GHz	
Insertion Loss	$\leq 0.1$ dB	
Return Loss	$> 24$ dB	
PIM	-122 dBm (2 x 5 W) Input	
Power	750 W	
Surge	40 kA (Max) 20 kA (Multiple)	
Throughput Energy	$\leq 300$ nJ for 3 kA 8/20 $\mu$ s Waveform	
Let Through Voltage	$\leq 5$ V for 3 kA 8/20 $\mu$ s Waveform	