

TSX HT Series

RF EMP SURGE PROTECTION

HEMP TESTED



The TSX HT Series of coaxial outdoor RF surge protection devices are designed and HEMP Tested to protect a wide range of 2.7 GHz WiFi and cellular power configurations. The TSX HT Series utilize patented high-pass filter design that allows for extremely low let-through voltage even at high surge current levels. These rugged HEMP Tested bidirectional coaxial protectors are an ideal solution for protecting and hardening critical systems.

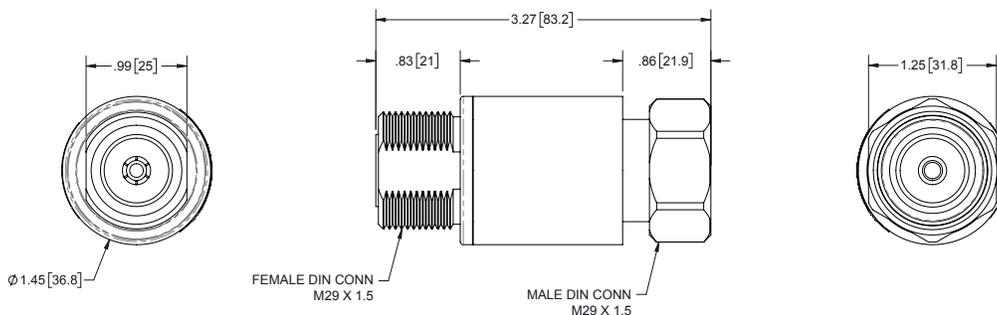


FEATURES

- Bidirectional broadband filter
- Broadband RF passband and excellent PIM performance on selected models
- 7/16 DIN and N-Type Connectors
- Ultra low PIM < -155 dBC
- Bulkhead mount
- Weatherized IEC 60529 IP 67 when connected
- Hardware kit with EMI gasket included
- HEMP Tested per MIL-STD-188-125

As providers of electronic application-specific components and subsystems, PolyPhaser's innovative solutions enable ultimate systems performance in the harshest environments. PolyPhaser partners with Military contractors in the design, manufacture and testing of specialized electronic and radio frequency products designed to prepare and protect critical systems from HEMP events.

DRAWINGS



HT-RO-TSX-BDFM

SPECIFICATIONS

Part Number	HT-RO-TSX-BNFF	HT-RO-TSX-BNFM	HT-RO-TSX-BDFF	HT-RO-TSX-BDFM	HT-RO-TSX-DCDFF	HT-RO-TSX-DCDFM
Application	GPS, Cellular				GPS, Cellular, Telemetry, AISG	
RF Protocol	DC Short/RF Only				DC Pass	
Technology	High Pass Filter				High Pass, GDT	
Surge Side	Female N	Female N	Female DIN	Female DIN	Female DIN	Female DIN
Protected Side	Female N	Male N	Female DIN	Male DIN	Female DIN	Male DIN
Insertion Loss	≤0.1 dB (Full Frequency Range)					
PIM Spec	<-155 dBc (-112 dBm), 2 x 20 W Input					
Frequency Range	698 MHz to 2.7 GHz					
RF Power	500 W @ 920 MHz				1000 W @ 920 MHz	
Maximum Discharge Current	40kA, 8 x 20 μs				20 kA, 8 x 20 μs	
Voltage Protection Level	≤200 mV @ 3 kA (8/20 μs Waveform)				<500 V @ 2 kA (8/20 μs Waveform)	
Operating Temperature	50° C to +85° C					
Body Material	Tri-plated Brass					
HEMP Tested	MIL-STD-188-125					
Early Time HEMP (E1)	5 kA 20/500ns per MIL-STD-188-125					
EMP Protection Level	1, 2, 3, 4					
Weatherproof	IEC 60529 IP 67 When Installed					
Weight	0.75 lb	0.75 lb	1.0 lb	1.0 lb	1.5 lbs	1.5 lbs
CE Compliant	IEC 60950-1					
RoHS Compliant	Yes					
Warranty	15 years					



HEMP Tested products by Transtector are now available for civil infrastructure applications including utilities, transportation, telecommunications, and first responders. Tested to stringent Military Standard 188-125 these products are engineered to provide EMP protection for equipment and facilities per Department of Homeland Security guidelines, and have been tested for survivability to the peak threat levels of the harsh Early Time (E1) and Intermediate Time (E2) High-Altitude (HEMP) environments. For additional information on custom EMP/HEMP solutions or to discuss commercial applications for HEMP Tested products contact PolyPhaser at 1 208 635 6400.