

Texas Spectrum Electronics, Inc



For over three decades, Texas Spectrum Electronics has been providing the military, aerospace and industrial communities with Electromagnetic Interference (EMI) products. TSE has become recognized as a manufacturer of quality EMI/RFI filters, feed-thru capacitors and other related components helping to solve Electromagnetic Compatibility (EMC) problems.

ENCLOSURE, CABINET, RACK AND TEST SYSTEM EMI FILTERS

APPLICATIONS



These Filters are generally used for filtering the Inputs and Outputs of Enclosures, Cabinets and Racks in applications such as Telecommunications and Test Systems. They may also be used to filter the inputs and outputs of Screen Rooms or anywhere high performance EMI Filtering is required.

They are capable of meeting the safety requirements of UL1950, EN60950, and have been certified to these specifications.

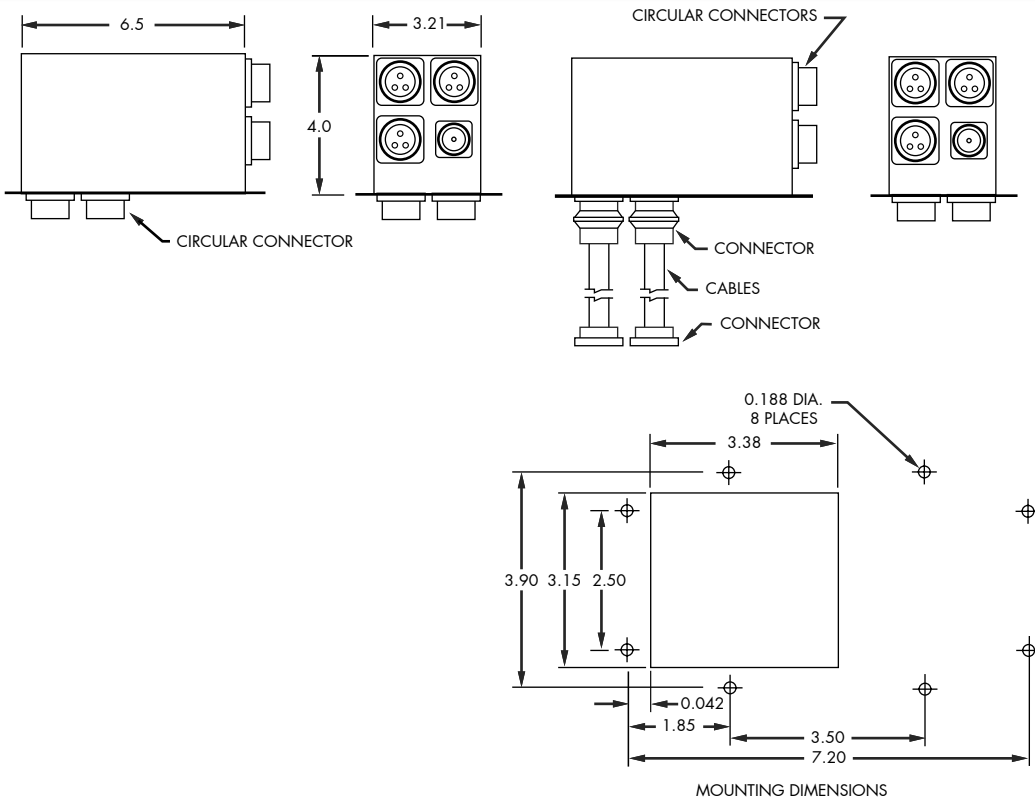
GENERAL SPECIFICATIONS

- USE TO MEET VDE0871 LEVEL "A" OR "B"
- MAY BE USED DIRECTLY ON THE 48VDC POWERLINE
- 100VDC INPUT RATING
- AVAILABLE WITH 1, 2, OR 3 PAIRS OF FILTER CIRCUITS
- UP TO 30 AMP CONTINUOUS RATING PER FILTER CIRCUIT
- MTBF > 1,000,000 HOURS
- BROAD FREQUENCY RANGE .1 KHZ THRU 300 MHZ
- ATTENUATION CHARACTERISTICS CUSTOMIZED FOR SPECIAL APPLICATIONS

SERIES	CURRENT RATINGS	FILTER CKT PAIRS
2FR	10, 20, 30 AMPS	1
4FR	10, 20, 30 AMPS	2
6FR	10, 20, 30 AMPS	3



CASE CONFIGURATION



EMI FILTER SELECTION

SYSTEM 1	FILTER	SYSTEM 2
LO	 IND. "T"	LO
LO	 "L"	HI
HI	 REVERSE "L"	LO
HI	 "C" "Pi"	HI

1. Determine whether System 1, looking into the filter is of high or low impedance at the frequency of interest. Choose the filter with the opposite (inverse) impedance: i.e., if the system is high impedance, the filter should be low impedance; if the system is low impedance, the filter should be high impedance.
2. Do the same for the opposite side of the filter (System 2).

SEE THE CHART ABOVE

- Power lines should be considered low impedance.
- When performing EMC testing such as in MIL-STD-461, a 10 μ f capacitor is specified in the line, a low impedance, therefore, a filter of high impedance should be used, such as an "L" (with the inductor toward the 10 μ f capacitor) or a "T".

Insertion loss data is normally provided in a 50 Ohm system. TSE has the computer capability to design to your real impedances and convert to a 50 Ohm system for your QA testing.