

# 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.

## CUSTOM EMI FILTERS

### APPLICATIONS

Texas Spectrum's engineers are experts at designing custom filters to solve EMI. Our engineers can help your systems meet MIL-STD 461. These filters are used on military and commercial aircraft, armored vehicles, helicopters and satellite communication systems. TSE's filters are manufactured to the general requirements of MIL-PRF 15733.



# GENERAL SPECIFICATIONS

Manufactured to general requirements of MIL-PRF-15733  
 Hermetically sealed  
 Similar to TSE filters qualified for MIL applications  
 Similar to TSE filters used for MIL-STD-461

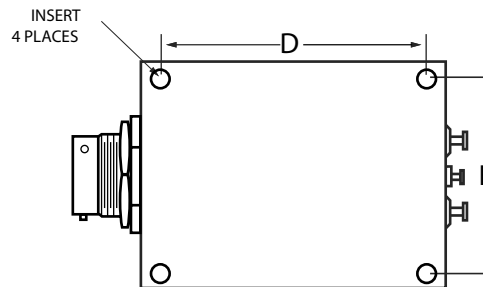
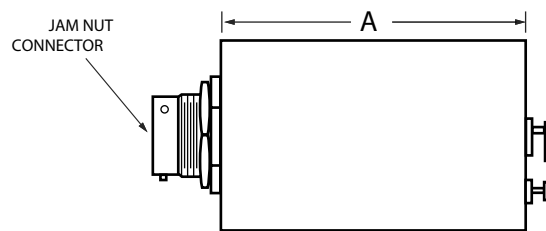
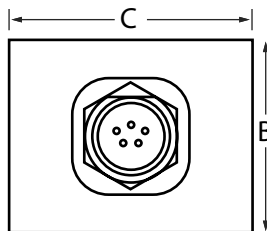
Voltage Ratings: 50VDC & 115VAC, 400Hz (Higher ratings available)  
 Current Ratings: 2.5 to 15 amps (Higher ratings available)  
 Temperature Range: -55°C to +125°C  
 Voltage Drop: 1% of rating  
 Insertion Loss: MIL-STD-220B and REAL  $Z_S$ ,  $Z_L$   
 Insulation Resistance: 1000 Megohms Min.  
 'L' Section Filters (All others available).

**Custom Configurations  
 to 300 Amps and 3000 Volts.**

**Customer modifications  
 can be quickly incorporated.**

# CASE CONFIGURATION

MIL-PRF-15733  
 MIL-STD-461  
 HERMETIC



Tested to MIL-PRF-15733 and MIL-STD-202.  
 MIL qualified connectors such as MIL-C-38999  
 and others available. Solder Lug terminals,  
 threaded post or other termination is available.  
 Inserts are blind with internal threads and  
 welded for maximum strength.  
 Case Material is steel per QQ-S-763 and the finish  
 is per ASTM-B545.

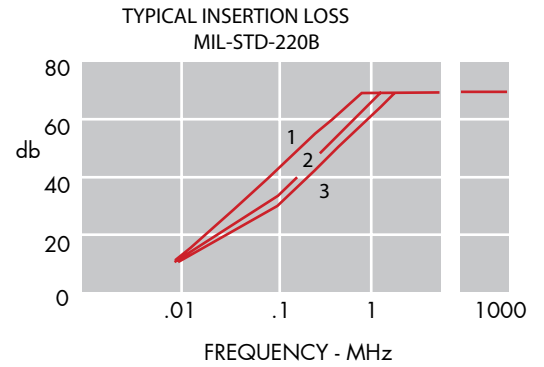
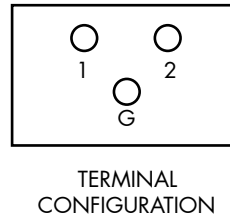
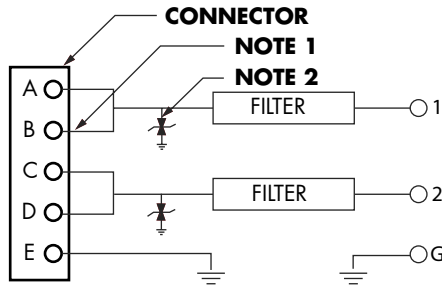
Case style	A	B	C	D	E	Insert
I	2.50	1.50	1.62	2.060	1.080	6-32
II	3.25	2.00	2.63	2.810	2.190	6-32
II	3.75	2.12	3.00	3.250	2.500	8-32
II	3.75	2.12	3.62	3.250	3.120	8-32

# SPECIAL NOTES

- NOTE 1:** Terminal is connected for 10 & 15 amp rating.  
**NOTE 2:** Transient voltage suppressors available by adding "1" to part number. (Example: 3FS4172-21.)  
**NOTE 3:** For AC Filters, neutral current rating is 25% of phase.

# 50VDC

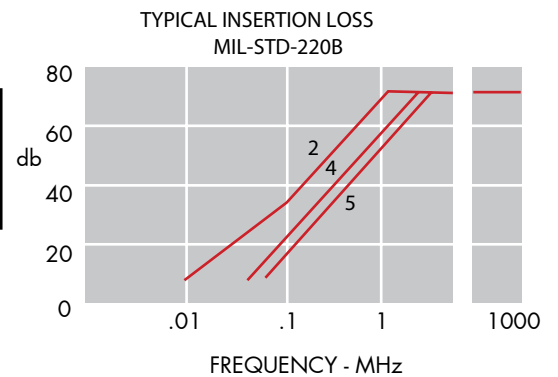
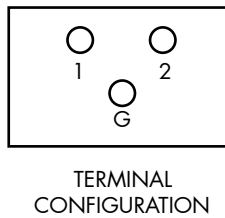
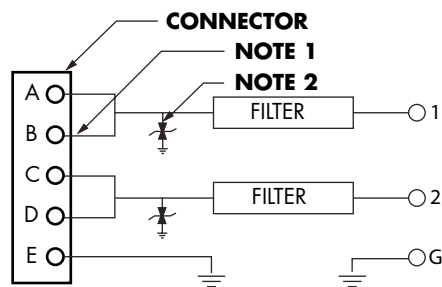
# 2FS4170



PART NO	CURRENT AMPS	CASE STYLE	INSERTION LOSS CURVE	CONNECTOR
2FS4170-1	2.5	I	1	MS3449H-14C-5PN
2FS4170-2	5	I	2	MS3449H-14C-5PN
2FS4170-3	10	II	2	MS3449H-14C-5PN
2FS4170-4	15	II	3	MS3449H-14C-5PN

# 115V, 400Hz SINGLE PHASE

# 2FS4171



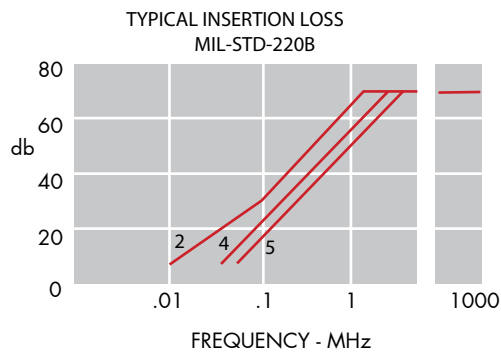
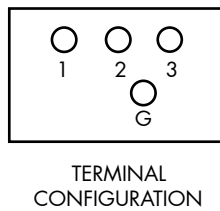
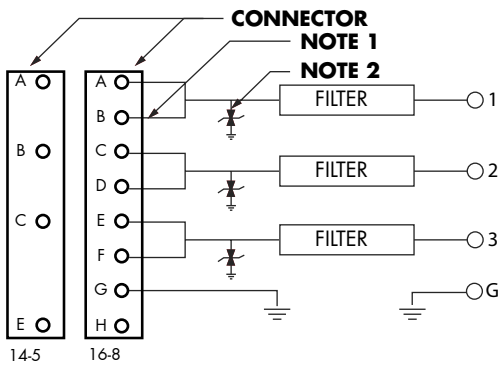
PART NO	CURRENT AMPS	CASE STYLE	INSERTION LOSS CURVE	CONNECTOR
2FS4171-1	2.5	I	2	MS3449H-14C-5PN
2FS4171-2	5	I	4	MS3449H-14C-5PN
2FS4171-3	10	II	4	MS3449H-14C-5PN
2FS4171-4	15	II	5	MS3449H-14C-5PN



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# 115V, 400Hz THREE PHASE

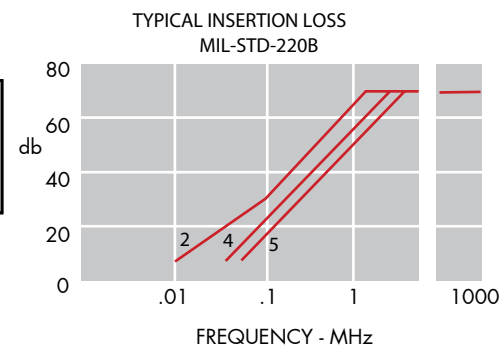
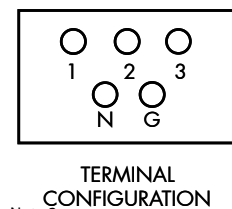
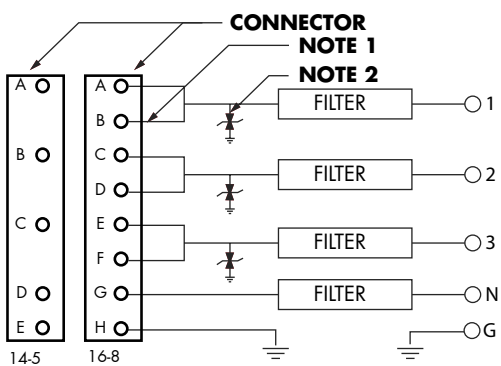
# 3FS4172



PART NO	CURRENT AMPS	CASE STYLE	INSERTION LOSS CURVE	CONNECTOR
3FS4172-1	2.5	II	2	MS3449H-14C-5PN
3FS4172-2	5	II	4	MS3449H-14C-5PN
3FS4172-3	10	III	4	MS3449H-16C-5PN
3FS4172-4	15	III	5	MS3449H-16C-5PN

# 115V, 400Hz THREE PHASE & NEUTRAL

# 4FS4173



PART NO	CURRENT AMPS	CASE STYLE	INSERTION LOSS CURVE	CONNECTOR
4FS4173-1	2.5	III	2	MS3449H-14C-5PN
4FS4173-2	5	III	4	MS3449H-14C-5PN
4FS4173-3	10	IV	4	MS3449H-16C-5PN
4FS4173-4	15	IV	5	MS3449H-16C-5PN