

Switched and Fused Filtered Power Entry Modules

For General Purpose Applications

64-65-BSF/64-65-SSF Series

Features

- North American and Metric fuse holders available
- Fuse holder and double pole power ON/OFF switch provided in a convenient/compact package
- Suitable for products that must conform to FCC and FTZ requirements
- Meets over voltage category II of IEC 664 and complies with IEC 950
- Metal case provides effective EMI shielding
- Easy access fuse drawer with space for spare fuse
- Flange-mounted or snap-in styles available for quick mounting
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 47)



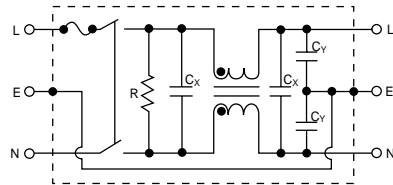
Tested and found to be IAW VDE 0565 Part 3.



Applications

- Computers and peripheral equipment
- Electronic equipment
- Digital equipment
- Measuring and testing instruments
- Telecommunications equipment

Circuit Diagram



Specifications

| Model* | Rated Voltage (@ 50/60Hz) | Rated Current | Leakage Current (Max.) | Capacitance | | | Inductance (L ₁) | Temperature Rise (Max.) |
|-----------------|---------------------------|---------------|------------------------|----------------|-----------------|-----------------|------------------------------|-------------------------|
| | | | | C _Y | C _{X1} | C _{X2} | | |
| 64-XXX-020-3-12 | 250VAC | 2A | 0.35mA | 2200pF | 0.22uF | NONE | 10.5mH | 45°C |
| 64-XXX-020-3-04 | | | | | | 0.22uF | | |
| 64-XXX-020-3-14 | | | | | | NONE | | |
| 64-XXX-020-3-06 | | | 0.47uF | | | | | |
| 64-XXX-020-5-12 | | | 0.50mA | 3300pF | 0.22uF | NONE | | |
| 64-XXX-020-5-04 | | | | | | 0.22uF | | |
| 64-XXX-020-5-14 | NONE | | | | | | | |
| 64-XXX-020-5-06 | 250VAC | 4A | 0.35mA | 2200pF | 0.22uF | NONE | 4.2mH | 45°C |
| 64-XXX-040-3-12 | | | | | | 0.22uF | | |
| 64-XXX-040-3-04 | | | | | | NONE | | |
| 64-XXX-040-3-14 | | | 0.47uF | | | | | |
| 64-XXX-040-3-06 | | | 0.50mA | 3300pF | 0.22uF | NONE | | |
| 64-XXX-040-5-12 | | | | | | 0.22uF | | |
| 64-XXX-040-5-04 | NONE | | | | | | | |
| 64-XXX-040-5-14 | 250VAC | 6A | 0.35mA | 2200pF | 0.22uF | NONE | 1.6mH | 45°C |
| 64-XXX-060-3-12 | | | | | | 0.22uF | | |
| 64-XXX-060-3-04 | | | | | | NONE | | |
| 64-XXX-060-3-14 | | | 0.47uF | | | | | |
| 64-XXX-060-3-06 | | | 0.50mA | 3300pF | 0.22uF | NONE | | |
| 64-XXX-060-5-12 | | | | | | 0.22uF | | |
| 64-XXX-060-5-04 | NONE | | | | | | | |
| 64-XXX-060-5-14 | 125VAC | 2A | 0.35mA | 2200pF | 0.22uF | NONE | 10.5mH | 45°C |
| 65-XXX-020-3-12 | | | | | | 0.22uF | | |
| 65-XXX-020-3-04 | | | | | | NONE | | |
| 65-XXX-020-3-14 | | | 0.47uF | | | | | |
| 65-XXX-020-3-06 | | | 0.50mA | 3300pF | 0.22uF | NONE | | |
| 65-XXX-020-5-12 | | | | | | 0.22uF | | |
| 65-XXX-020-5-04 | NONE | | | | | | | |
| 65-XXX-020-5-14 | 125VAC | 4A | 0.35mA | 2200pF | 0.22uF | NONE | 4.2mH | 45°C |
| 65-XXX-040-3-12 | | | | | | 0.22uF | | |
| 65-XXX-040-3-04 | | | | | | NONE | | |
| 65-XXX-040-3-14 | | | 0.47uF | | | | | |
| 65-XXX-040-3-06 | | | 0.50mA | 3300pF | 0.22uF | NONE | | |
| 65-XXX-040-5-12 | | | | | | 0.22uF | | |
| 65-XXX-040-5-04 | NONE | | | | | | | |
| 65-XXX-040-5-14 | 125VAC | 6A | 0.35mA | 2200pF | 0.22uF | NONE | 1.6mH | 45°C |
| 65-XXX-060-3-12 | | | | | | 0.22uF | | |
| 65-XXX-060-3-04 | | | | | | NONE | | |
| 65-XXX-060-3-14 | | | 0.47uF | | | | | |
| 65-XXX-060-3-06 | | | 0.50mA | 3300pF | 0.22uF | NONE | | |
| 65-XXX-060-5-12 | | | | | | 0.22uF | | |
| 65-XXX-060-5-04 | NONE | | | | | | | |
| 65-XXX-060-5-14 | 65-XXX-060-5-06 | | | | | | | |

Note: Test Voltage 1500VAC one minute, line to ground
Insulation Resistance: 300 MΩ min. at 500VDC
B(S) = Bolt-in terminals or (Snap-in terminals)

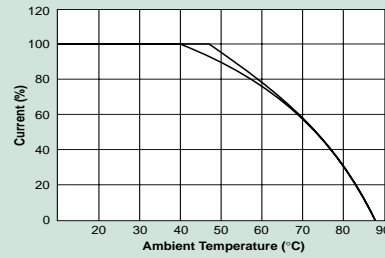
Voltage Drop: 1V max. at rated current
Weight: 130g
Inlet: Compatible with IEC-320

* Substitute BSF or SSF for XXX
BSF - Bolt-in switched and fused
SSF - Snap-in switched and fused

Switched and Fused Filtered Power Entry Modules

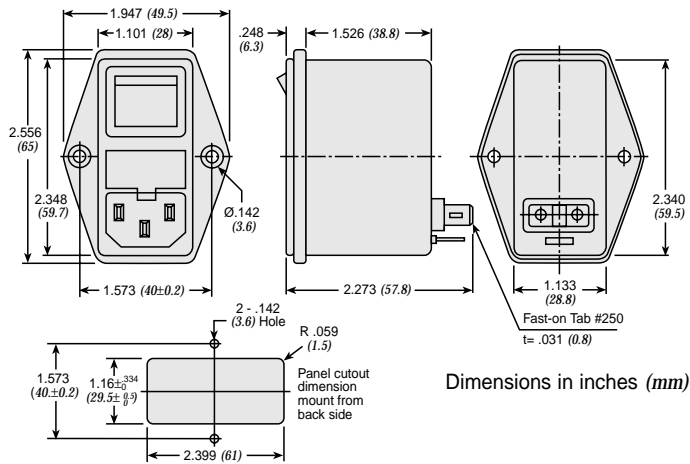
For General Purpose Applications

Temperature Characteristics

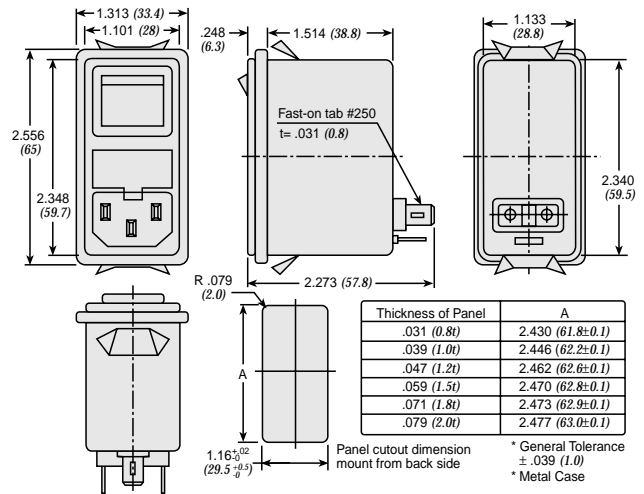


Dimensions

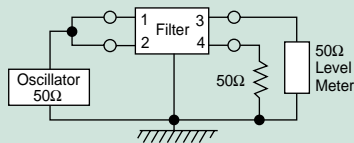
64/65-BSF Series



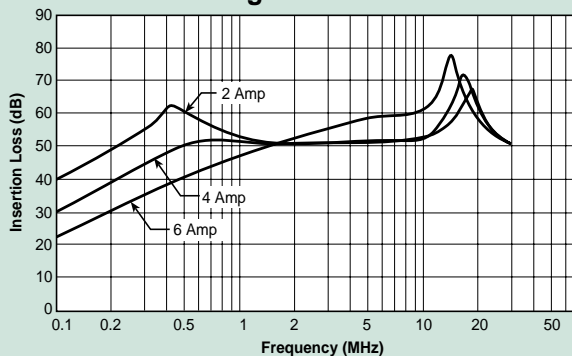
64/65-SSF Series



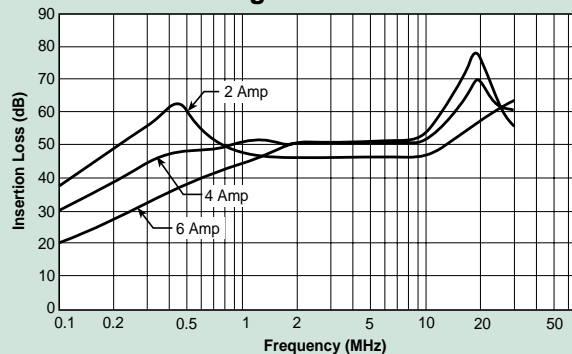
Common Mode



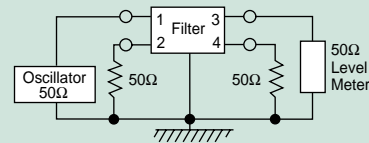
0.35 mA Leakage Versions



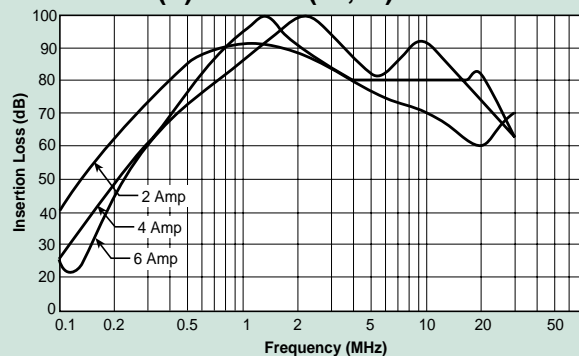
0.50 mA Leakage Versions



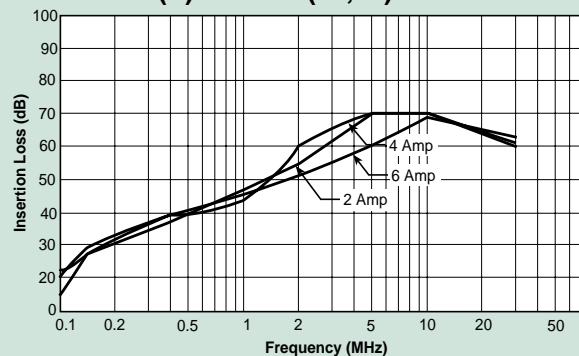
Normal Mode



64/65-B(S)SF-*-02(04,06)



64/65-B(S)SF-*-11(12,14)



Switched and Fused Filtered Power Entry Modules

For Medical or General Purpose Applications

Switched and Fused Filtered Power Entry Modules

66-67-BSF/66-67-SSF Series



Tested and found to be IAW VDE 0565 Part 3

Features

- Metric and North American fuse holders available
- Fuse holder and a double pole power ON/OFF switch provides a convenient/compact package
- Suitable for products that must conform to FCC and FTZ requirements
- Meets over voltage category II of IEC 664 and complies with IEC 950
- Provides susceptibility protection without the leakage current associated with line-to-ground capacitors
- Designed to meet requirements for non-patient and patient care equipment
- Metal case provides effective EMI shielding
- Easy access fuse drawer - space for spare fuse
- Flange-mounted or snap-in styles available for quick mounting
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 49)

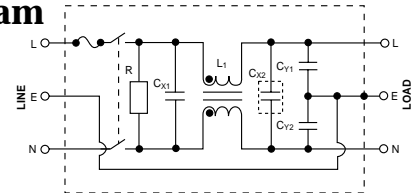


Applications

- Medical equipment
- Industrial equipment
- Telecommunications equipment
- Measuring and testing instruments
- Digital equipment (including switching power supplies)
- General purpose filter for susceptibility or high frequency "clean up" applications

Circuit Diagram

Note: C_{Y1} and C_{Y2} capacitors omitted on 66/67 B(S)F-XXX-1-X Filters



Specifications

| Model* | Rated Voltage 50/60Hz | Rated Current | Leakage Current (Max.) | Capacitance | | | Temp. Induct. (L ₁) | Rise (Max.) | | |
|-----------------|-----------------------|---------------|------------------------|----------------|-----------------|-----------------|---------------------------------|-------------|-------|------|
| | | | | C _Y | C _{X1} | C _{X2} | | | | |
| 66-XXX-020-0-12 | 250 VAC | 2A | .075mA | 330pF | 0.22uF | NONE | 10.5mH | 40°C | | |
| 66-XXX-020-0-04 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-020-0-14 | | | | | 0.47uF | NONE | | | | |
| 66-XXX-020-0-06 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-020-1-12 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-020-1-04 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-020-1-14 | | | 0.47uF | NONE | | | | | | |
| 66-XXX-020-1-06 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-020-4-12 | | | .1mA | 470pF | 0.22uF | NONE | | | | |
| 66-XXX-020-4-04 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-020-4-14 | | | | | 0.47uF | NONE | | | | |
| 66-XXX-020-4-06 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-040-0-12 | | 4A | | | .075mA | 330pF | 0.22uF | NONE | 4.2mH | 45°C |
| 66-XXX-040-0-04 | | | | | | | 0.22uF | NONE | | |
| 66-XXX-040-0-14 | | | 0.47uF | NONE | | | | | | |
| 66-XXX-040-0-06 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-040-1-12 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-040-1-04 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-040-1-14 | | | 0.47uF | NONE | | | | | | |
| 66-XXX-040-1-06 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-040-4-12 | | | .1mA | 470pF | 0.22uF | NONE | | | | |
| 66-XXX-040-4-04 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-040-4-14 | | | | | 0.47uF | NONE | | | | |
| 66-XXX-040-4-06 | | | | | 0.22uF | NONE | | | | |
| 66-XXX-060-0-12 | 6A | .075mA | | | 330pF | 0.22uF | NONE | 1.6mH | 45°C | |
| 66-XXX-060-0-04 | | | | | | 0.22uF | NONE | | | |
| 66-XXX-060-0-14 | | | 0.47uF | NONE | | | | | | |
| 66-XXX-060-0-06 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-060-1-12 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-060-1-04 | | | 0.22uF | NONE | | | | | | |
| 66-XXX-060-1-14 | | 0.47uF | NONE | | | | | | | |
| 66-XXX-060-1-06 | | 0.22uF | NONE | | | | | | | |
| 66-XXX-060-4-12 | | .1mA | 470pF | 0.22uF | NONE | | | | | |
| 66-XXX-060-4-04 | | | | 0.22uF | NONE | | | | | |
| 66-XXX-060-4-14 | | | | 0.47uF | NONE | | | | | |
| 66-XXX-060-4-06 | | | | 0.22uF | NONE | | | | | |

| Model* | Rated Voltage 50/60Hz | Rated Current | Leakage Current (Max.) | Capacitance | | | Temp. Induct. (L ₁) | Rise (Max.) | | |
|-----------------|-----------------------|---------------|------------------------|----------------|-----------------|-----------------|---------------------------------|-------------|-------|------|
| | | | | C _Y | C _{X1} | C _{X2} | | | | |
| 67-XXX-020-0-12 | 125 VAC | 2A | 0.04mA | 330pF | 0.22uF | NONE | 10.5mH | 40°C | | |
| 67-XXX-020-0-04 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-020-0-14 | | | | | 0.47uF | NONE | | | | |
| 67-XXX-020-0-06 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-020-1-12 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-020-1-04 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-020-1-14 | | | 0.47uF | NONE | | | | | | |
| 67-XXX-020-1-06 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-020-4-12 | | | .005mA | 470pF | 0.22uF | NONE | | | | |
| 67-XXX-020-4-04 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-020-4-14 | | | | | 0.47uF | NONE | | | | |
| 67-XXX-020-4-06 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-040-0-12 | | 4A | | | 0.04mA | 330pF | 0.22uF | NONE | 4.2mH | 45°C |
| 67-XXX-040-0-04 | | | | | | | 0.22uF | NONE | | |
| 67-XXX-040-0-14 | | | 0.47uF | NONE | | | | | | |
| 67-XXX-040-0-06 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-040-1-12 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-040-1-04 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-040-1-14 | | | 0.47uF | NONE | | | | | | |
| 67-XXX-040-1-06 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-040-4-12 | | | 0.05mA | 470pF | 0.22uF | NONE | | | | |
| 67-XXX-040-4-04 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-040-4-14 | | | | | 0.47uF | NONE | | | | |
| 67-XXX-040-4-06 | | | | | 0.22uF | NONE | | | | |
| 67-XXX-060-0-12 | 6A | 0.04mA | | | 330pF | 0.22uF | NONE | 1.6mH | 45°C | |
| 67-XXX-060-0-04 | | | | | | 0.22uF | NONE | | | |
| 67-XXX-060-0-14 | | | 0.47uF | NONE | | | | | | |
| 67-XXX-060-0-06 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-060-1-12 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-060-1-04 | | | 0.22uF | NONE | | | | | | |
| 67-XXX-060-1-14 | | 0.47uF | NONE | | | | | | | |
| 67-XXX-060-1-06 | | 0.22uF | NONE | | | | | | | |
| 67-XXX-060-4-12 | | .005mA | 470pF | 0.22uF | NONE | | | | | |
| 67-XXX-060-4-04 | | | | 0.22uF | NONE | | | | | |
| 67-XXX-060-4-14 | | | | 0.47uF | NONE | | | | | |
| 67-XXX-060-4-06 | | | | 0.22uF | NONE | | | | | |

Note: Test Voltage: 1500VAC one minute, line to ground
Insulation Resistance: 300 MΩ min. at 500VDC
Voltage Drop: 1V max. at rated current

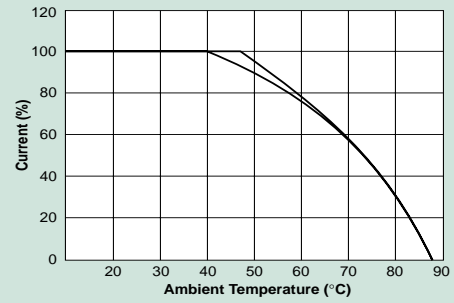
Weight: 130g
Inlet: Compatible with IEC-320
B(S) = Bolt-in terminals or (Snap-in terminals)

* Substitute BSF or SSF for XXX
BSF - Bolt-In Switched and Fused
SSF - Snap-In Switched and Fused

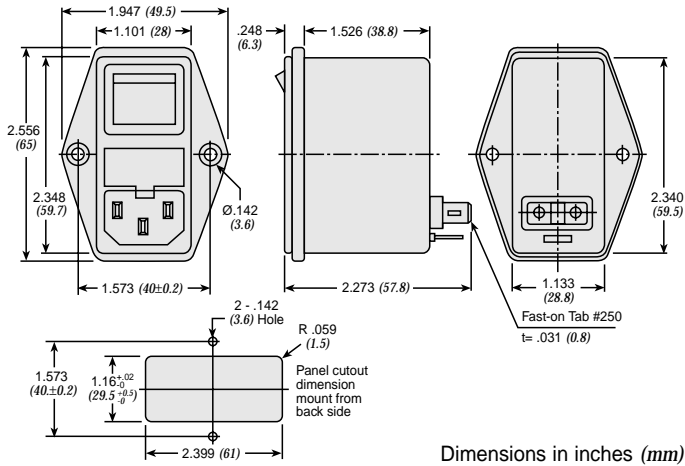
Switched and Fused Filtered Power Entry Modules

For Medical or General Purpose Applications

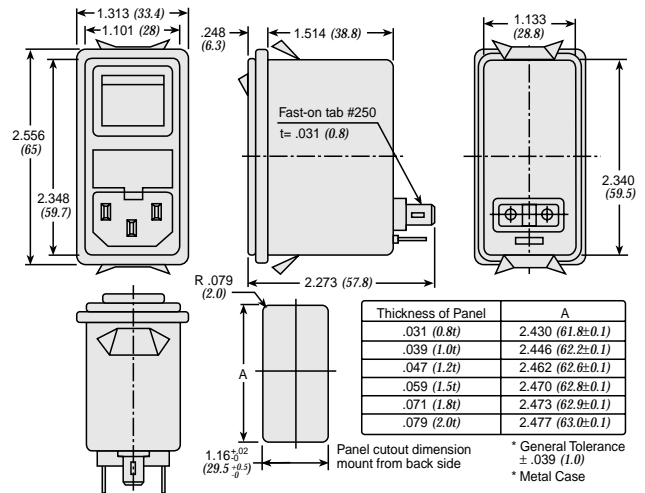
Temperature Characteristics



Dimensions 66/67-BSF Series

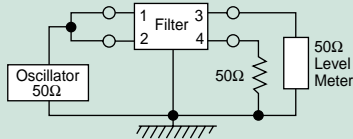


66/67-SSF Series

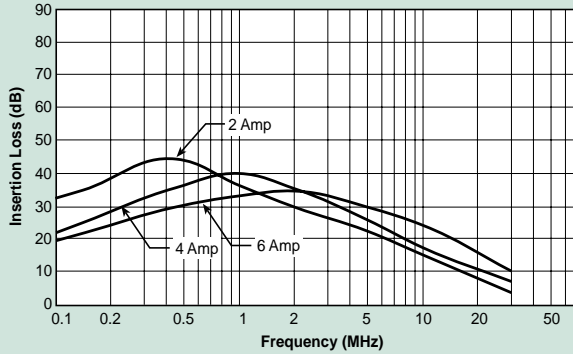


Switched and Fused Filtered Power Entry Modules

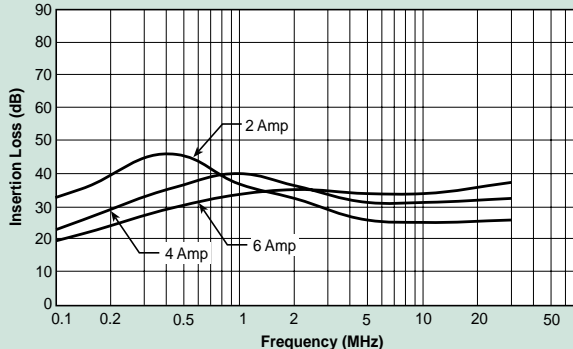
Common Mode



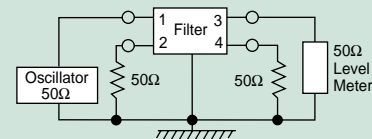
0.01 mA Leakage Current



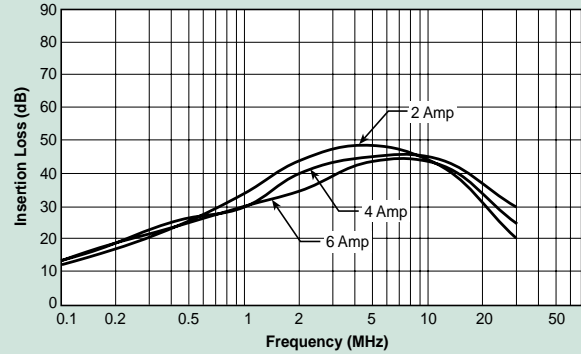
0.075 and 0.1 mA Leakage Current



Normal Mode



0.01 mA Leakage Current



0.075 and 0.1 mA Leakage Current

