

# Power Line Filters Dual Stage



## 12-MMF & 12-MMB Series

### Features

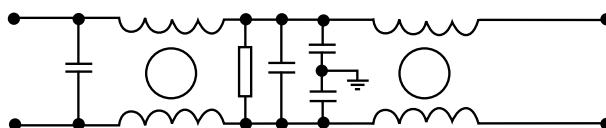
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Two stages for excellent filtering characteristics
- Structure provides effective shielding for noise generated both externally and internally
- Operating temperature: -40°C to +85°C
- High performance
- Low leakage current

### Applications

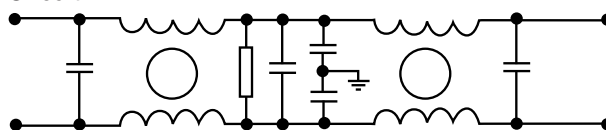
- Digital equipment
- Switching power supplies
- Personal computers and peripherals
- Measuring instruments and medical equipment
- Telecommunications equipment
- Equipment requiring very high noise attenuation

### Circuit Diagram

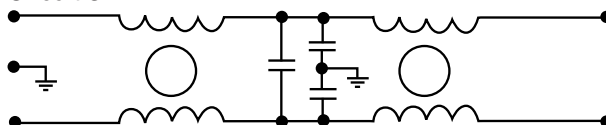
Circuit 1



Circuit 2



Circuit 3



### Specifications

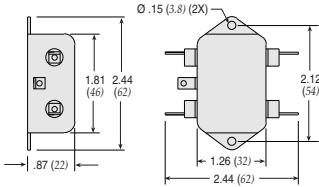
Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)
12-MMF-002-5-F	120/250VAC	2A	0.25mA@120VAC/ 0.5mA@250VAC	1	A	30°C
12-MMF-003-5-F		3A			A	
12-MMF-003-5-A					B	
12-MMF-006-5-F		6A		A	2	
12-MMF-006-5-G				C		
12-MMF-008-5-B		8A				
12-MMF-010-5-F		10A		A		
12-MMF-010-5-G				A1		
12-MMF-010-5-B				C		
12-MMF-012-5-B		12A				
12-MMB-015-5-E		15A		D		
12-MMB-020-5-F		20A		G		
12-MMB-030-5-D		30A		E		
12-MMB-050-5-C		50A		F		

Note: All types are designed to meet the requirement of UL 1283, CSA 22.2, VDE 0565-3  
 Test voltage: 1500VAC one minute, line to ground  
 Insulation resistance: 300 Mohm min. at 500VDC  
 Voltage drop: 1V max.  
 Discharge time: 0.4 sec. max.

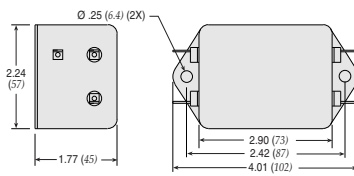
# Power Line Filters Dual Stage

## 12-MMF & 12-MMB Series

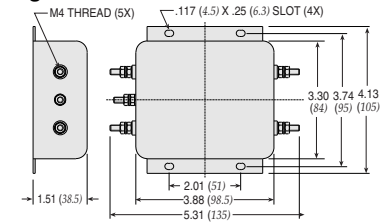
**Figure B**



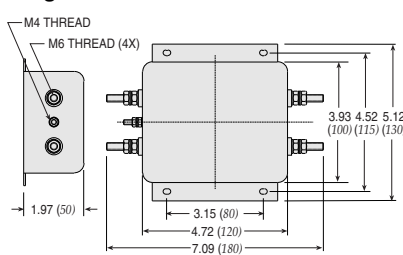
**Figure C**



**Figure E**

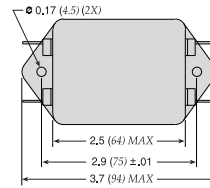


**Figure F**

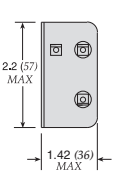


Dimensions in inches (mm)

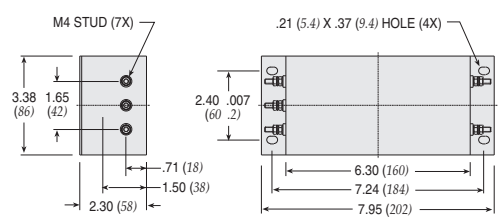
**Figure A**



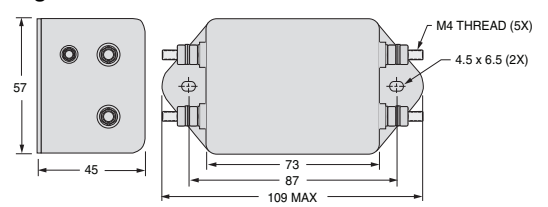
**Figure A1**



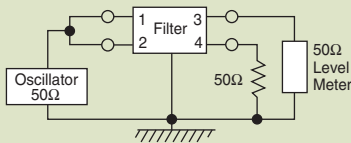
**Figure D**



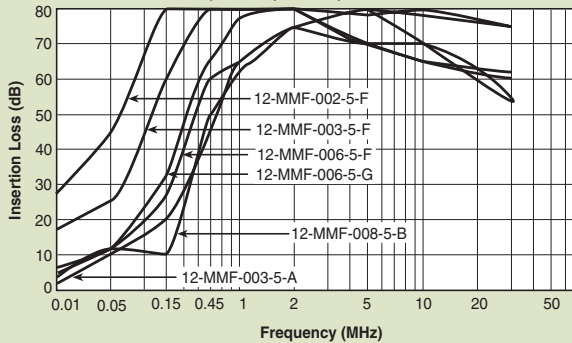
**Figure G**



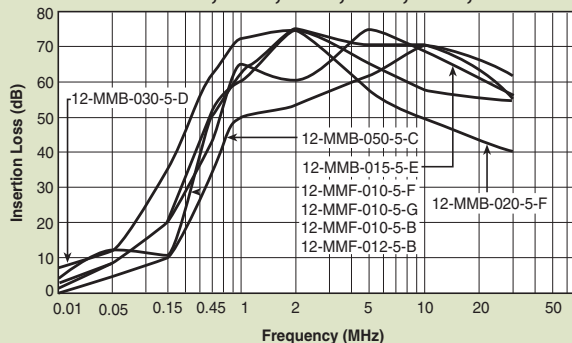
### Common Mode



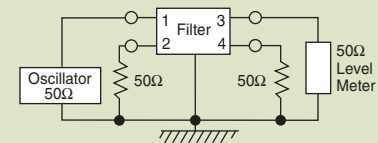
#### 12-MMF-002;-003;-006;-008



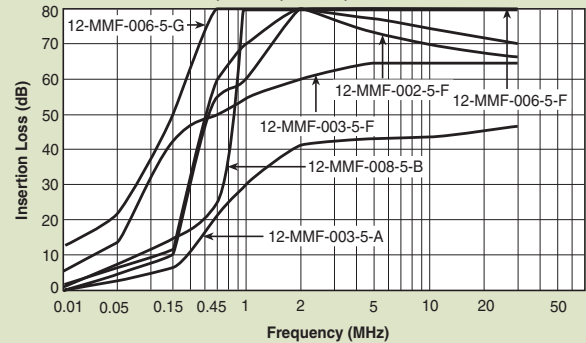
#### 12-MMF-010;-012;-015;-020;-030;-050



### Normal Mode



#### 12-MMF-002;-003;-006;-008



#### 12-MMF-010;-012;-015;-020;-030;-050

