

# Power Line Filters Single Stage

## 62-LMF & LMB Series



Tested and found to be  
IAW VDE 0565 Part 3

### Features

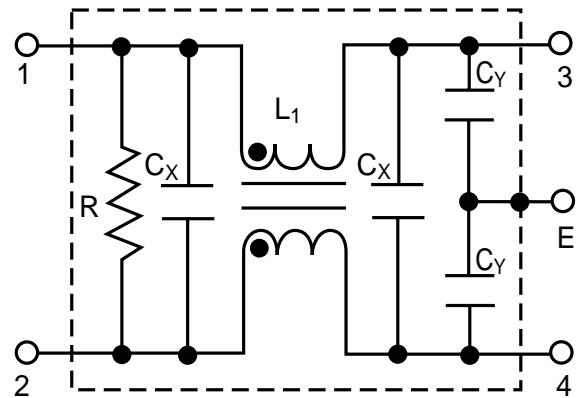
- Space saving, compact designs
- Suitable for products that must conform to FCC and FTZ regulations
- Excellent filtering characteristics for both normal mode and common mode
- Structure provides effective shielding for noise generated externally and internally
- Metal case provides effective shielding
- Rugged construction
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 69)

### Applications

- Digital equipment
- Office automation equipment, such as copy and fax machines
- Computers and peripherals
- Instrumentation and controls



### Circuit Diagram



## Specifications

Model*	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance		Inductance (L <sub>1</sub> )	Temperature Rise (Max.)	
				C <sub>Y</sub>	C <sub>X</sub>			
62-LMB-030-5-11	250VAC	3A	0.50mA	3300pF	0.1uF	14mH	45°C	
62-LMF-030-5-11		5A			0.1uF & .22uF	7.0mH		
62-LMB-050-5-11					8A	.22uF		4.2mH
62-LMF-050-5-11		10A				.33uF		2.2mH
62-LMB-080-5-11					.33uF	2.2mH		2.2mH
62-LMF-080-5-11								
62-LMB-100-5-11					.33uF	2.2mH		2.2mH
62-LMF-100-5-11		.33uF						

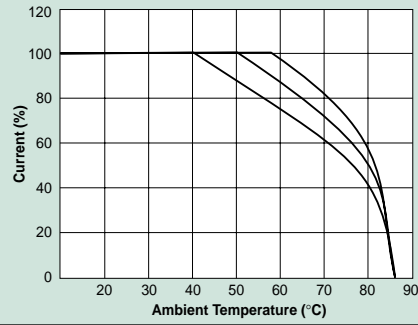
Note: Test voltage: 1500VAC one minute, line to ground  
 Insulation resistance: 300 Mohm min. at 500VDC  
 Voltage drop: 1V max. at rated current  
 Discharge time: 0.4 sec. max.  
 Weight: 5.3 ounces (150 grams)

\*62-LMF - designates Fast-on terminals  
 62-LMB - designates Bolt-in terminals  
 62-LML - wire lead in/outputs also available

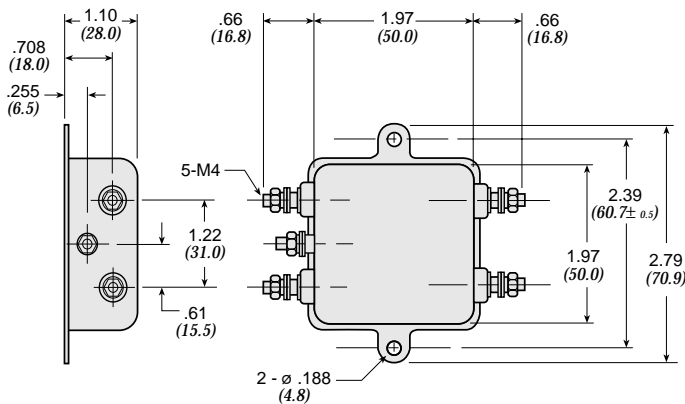
# Power Line Filters Single Stage

## 62-LMF & LMB Series

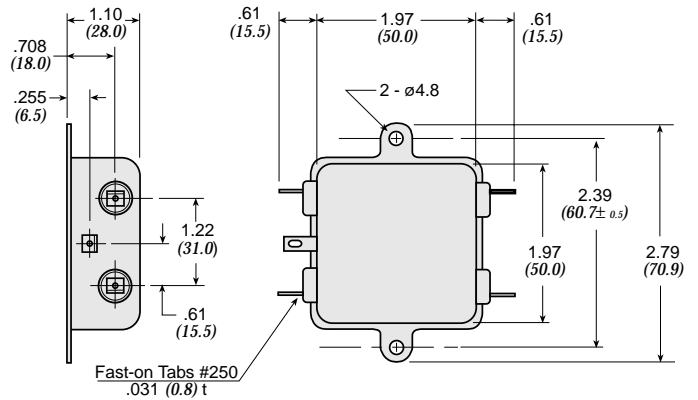
### Temperature Characteristics



### 62-LMB



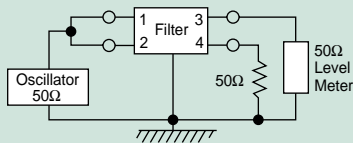
### 62-LMF



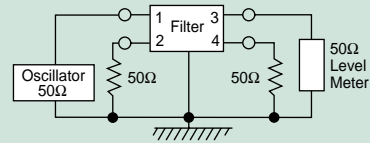
Dimensions in inches (mm)

Power Line Filters

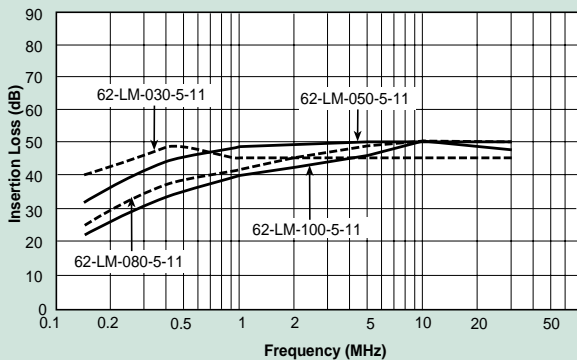
### Common Mode



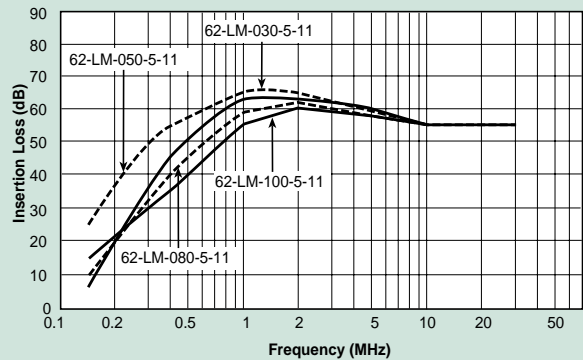
### Normal Mode



### 62-LMF & LMB



### 62-LMF & LMB



# Power Line Filters Single Stage

## 62-PMF & PMB Series



Tested and found to be  
IAW VDE 0565 Part 3

### Features

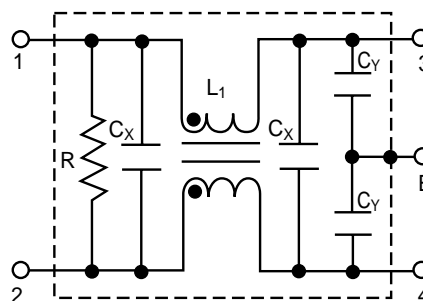
- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component reliability
- Structure provides effective shielding for noise generated externally and internally
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 71)

### Applications

- Digital equipment
- Computers and peripherals
- Measuring instruments
- Medical equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters and converters
- Telecommunications equipment
- Office automation equipment, such as copy and fax machines



### Circuit Diagram



### Specifications

Model*	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance		Inductance (L <sub>1</sub> )	Temperature Rise (Max.)	
				C <sub>Y</sub>	C <sub>X</sub>			
62-PMB-050-5-11	250VAC	5A	0.50mA	3300pF	0.1uF	14mH	30°C	
62-PMF-050-5-11								
62-PMB-080-5-11		8A			.1uF & .22uF	7.0mH		
62-PMF-080-5-11								
62-PMB-100-5-12		10A			.22uF	4.2mH		
62-PMF-100-5-12								
62-PMB-150-5-13		15A			.33uF	2.2mH		35°C
62-PMF-150-5-13								
62-PMB-200-5-13		20A			1.8mH	1.8mH		45°C**
62-PMF-200-5-13								

Note: 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.  
Weight: 8.82 ounces ( 250 grams)

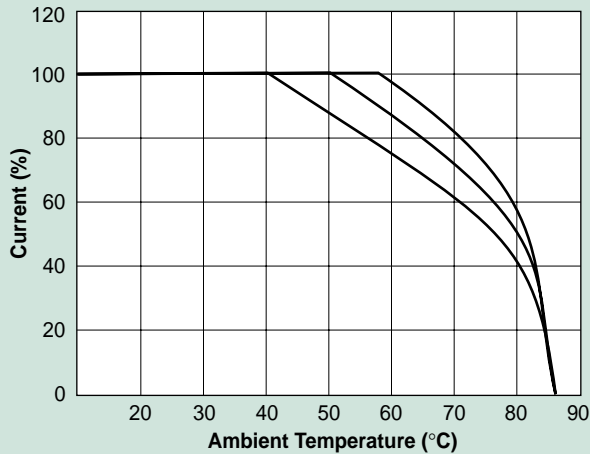
\* PMF - designates Fast-on terminals  
PMB - designates Bolt-in terminals

\*\* The temperature rise of 20 amp units can be decreased to 30°C by mounting on 200 X 200 x 1.0(mm) steel chassis

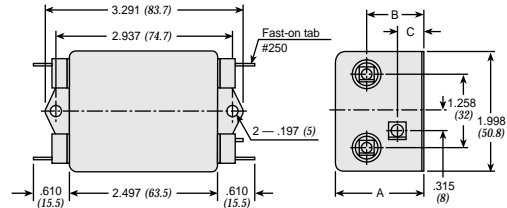
# Power Line Filters Single Stage

## 62-PMF & PMB Series

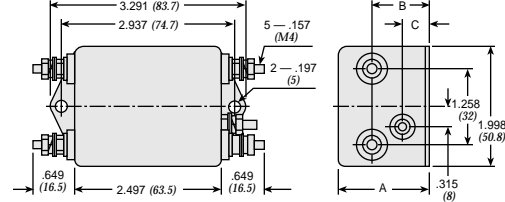
### Temperature Characteristics



### 62-PMF



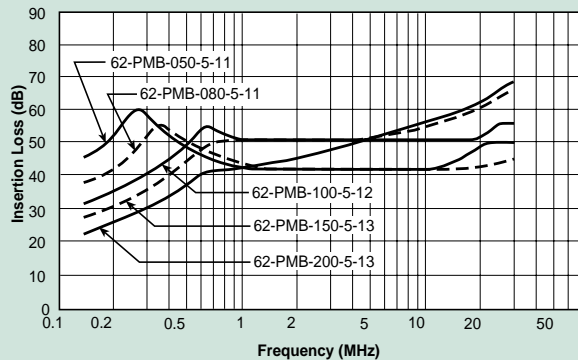
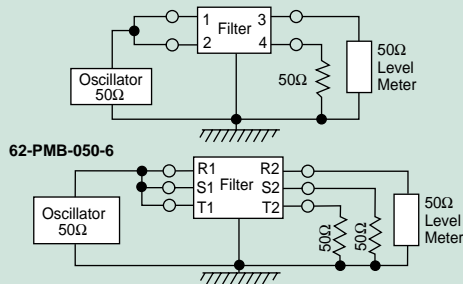
### 62-PMB



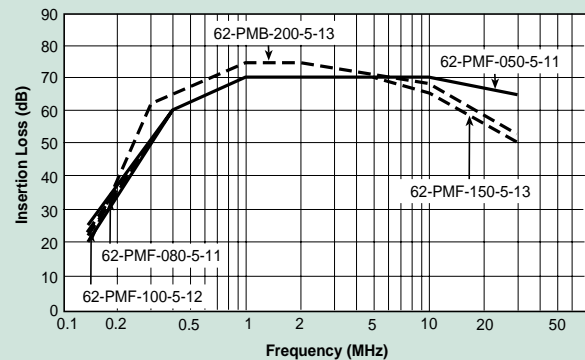
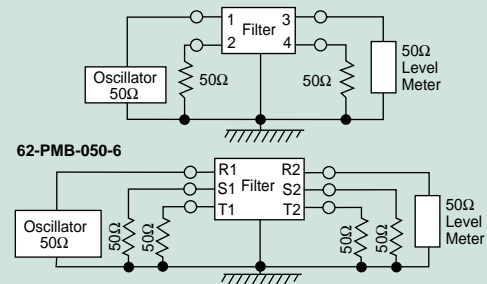
MODEL	A	B	C
62-PMF/PMB-100-200	1.490 (38)	.944 (24)	.433 (11)
62-PMF/PMB-050-080	1.258 (32)	.786 (20)	0 (0)

Dimensions in inches (mm)

### Common Mode



### Normal Mode



# Power Line Filters Single Stage

## 12-PMF Series



### Features

- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component reliability
- Structure provides effective shielding for noise generated externally and internally
- Operating temperature: -40°C to +85°C

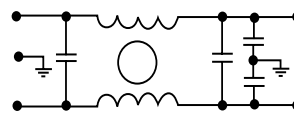
### Applications

- Digital equipment
- Computers and peripherals
- Measuring instruments
- Medical equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters and converters
- Telecommunications equipment
- Office automation equipment, such as copy and fax machines

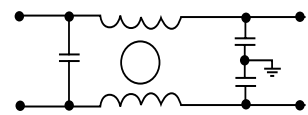


### Circuit Diagram

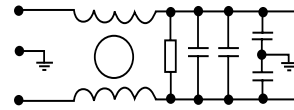
Circuit 1



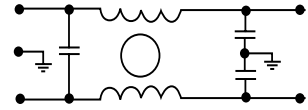
Circuit 2



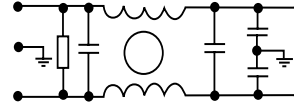
Circuit 3



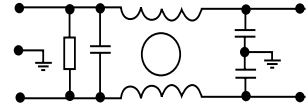
Circuit 4



Circuit 5



Circuit 6



### Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)	
12-PMF-001-5-A	120/250VAC	1A	0.5mA	1	A	30°C	
12-PMF-002-5-B		2A		2	B		
12-PMF-003-5-A		3A		4	A		
12-PMF-003-5-B		2A		2	B		
12-PMF-006-5-A		6A		4	A		
12-PMF-006-5-C		1A		1	C		
12-PMF-006-5-D		6A		6	D		
12-PMF-010-5-A		10A		2	A		
12-PMF-010-5-C		3A		3	C		
12-PMF-015-5-C		15A		5	C		E
12-PMF-015-5-E		20A					C
12-PMF-020-5-C							D
12-PMF-020-5-D							D
12-PMF-020-5-E							E

Note: 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 Single Stage

## 12-PMF Series

Figure A

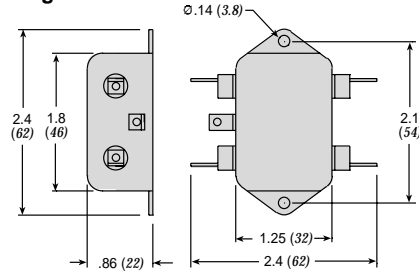


Figure B

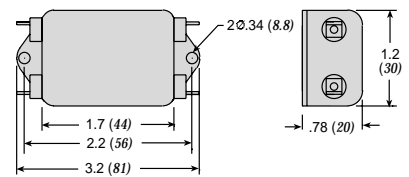


Figure C

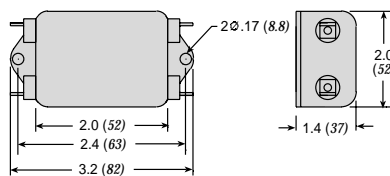


Figure D

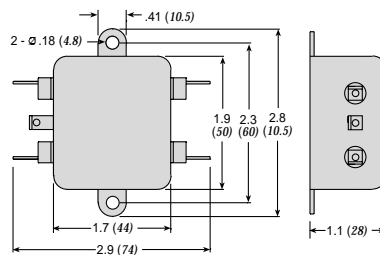
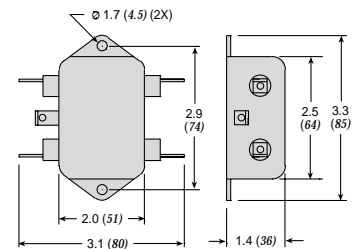
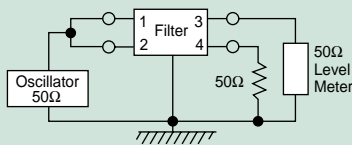


Figure E

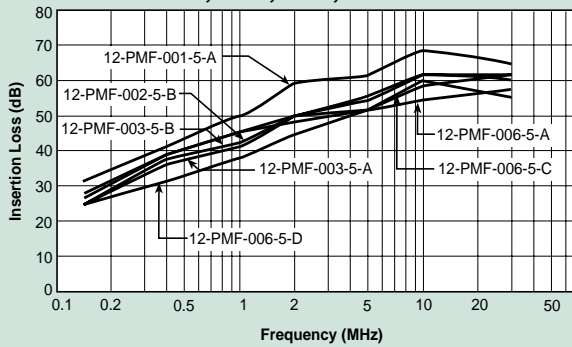


Dimensions in inches (mm)

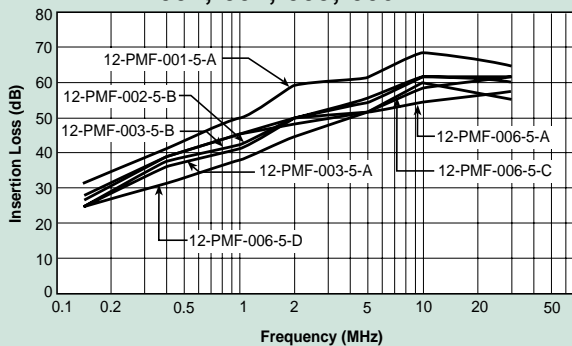
### Common Mode



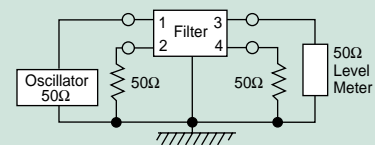
#### 12-PMF-001;-002;-003;-006



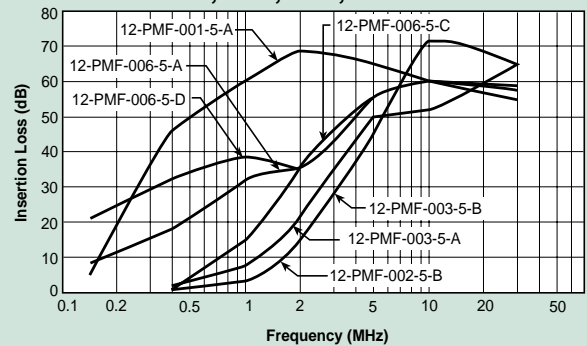
#### 12-PMF-001;-002;-003;-006



### Normal Mode



#### 12-PMF-001;-002;-003;-006



#### 12-PMF-010;-015;-020

