SPECTRUM CONTROL INC.

Power Line Filters
Single Stage

62-LMF & LMB Series

Tested and found to be
IAW VDE 0565 Part 3

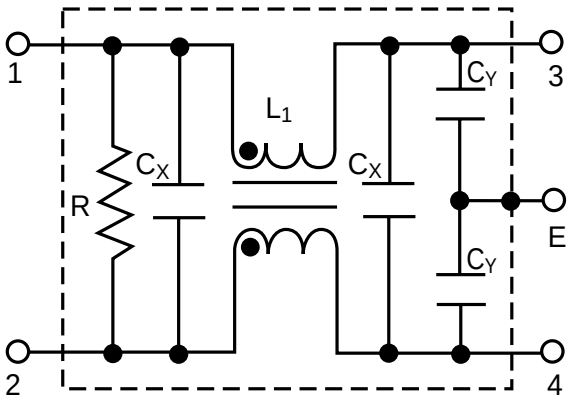
Features

- 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 C_Y	Capacitance C_X	Inductance (L_1)	Temperature Rise (Max.)
62-LMB-030-5-11	250VAC	3A	0.50mA	3300pF	0.1uF	14mH	45°C
62-LMF-030-5-11							
62-LMB-050-5-11		5A			0.1uF & .22uF	7.0mH	
62-LMF-050-5-11							
62-LMB-080-5-11		8A			.22uF	4.2mH	
62-LMF-080-5-11							
62-LMB-100-5-11		10A			.33uF	2.2mH	
62-LMF-100-5-11							

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

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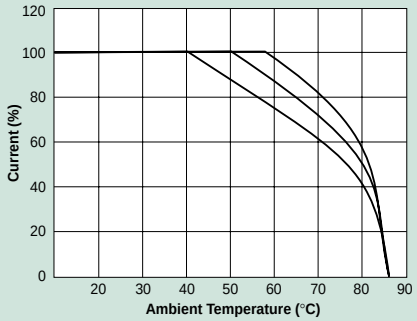
SPECTRUM CONTROL INC.

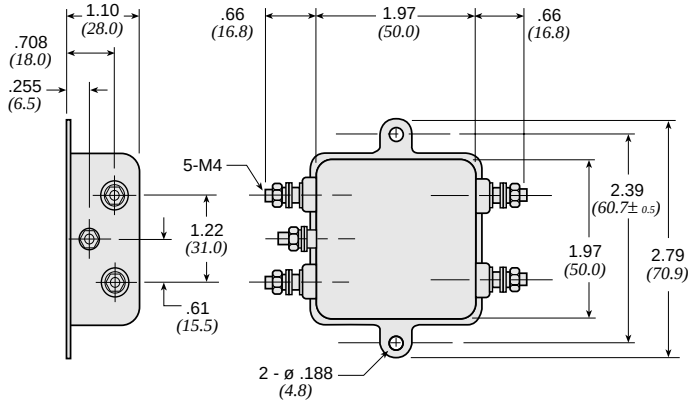
Power Line Filters
Single Stage

62-LMF & LMB Series

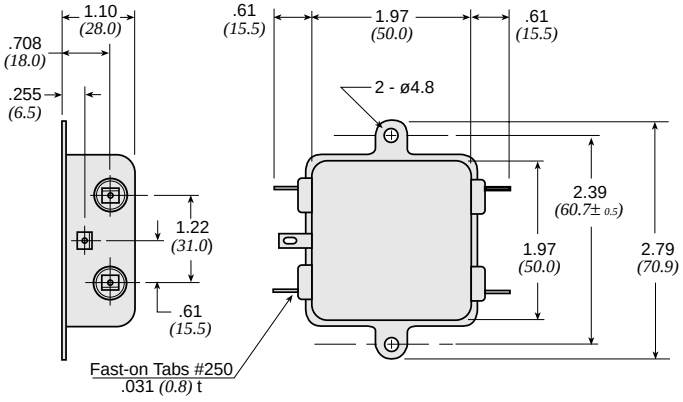
Temperature Characteristics



62-LMB

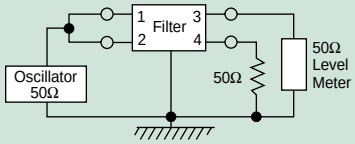


62-LMF

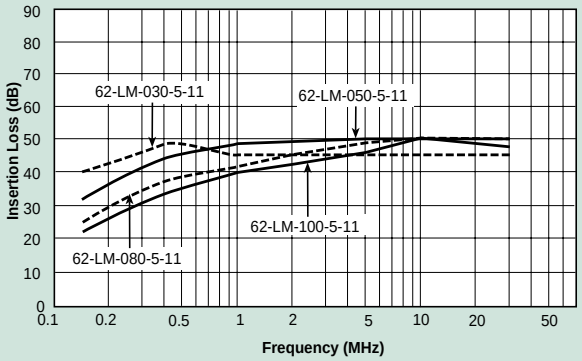


Dimensions in inches *(mm)*

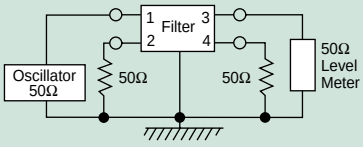
Common Mode



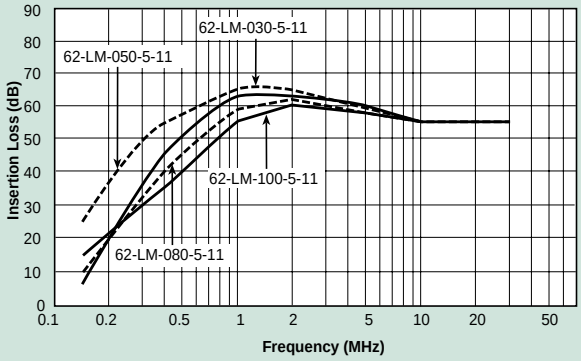
62-LMF & LMB



Normal Mode



62-LMF & LMB



SPECTRUM CONTROL INC.

Power Line Filters
Single Stage

62-PMF & PMB Series

Tested and found to be
IAW VDE 0565 Part 3

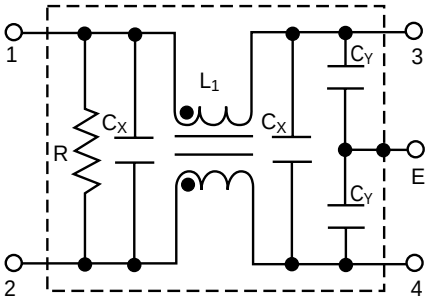
Features

- 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



Power Line Filters

Specifications

Model*	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance C_Y	Capacitance C_X	Inductance (L_1)	Temperature Rise (Max.)
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	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

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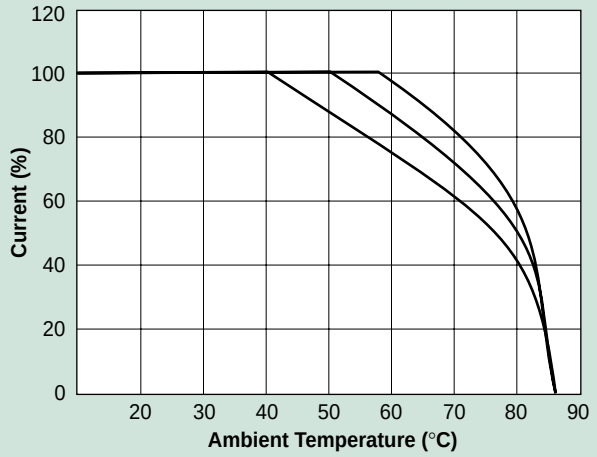
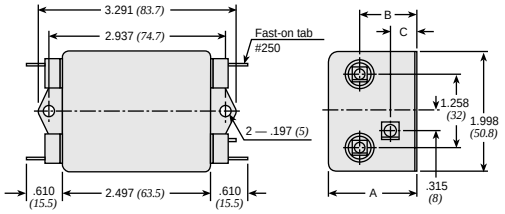
Power Line Filters
Single Stage

62-PMF & PMB Series

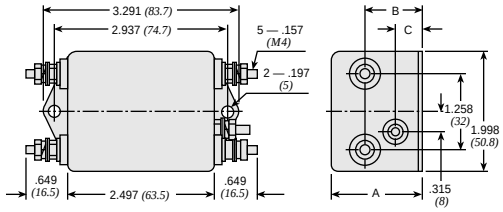
Temperature Characteristics



62-PMF



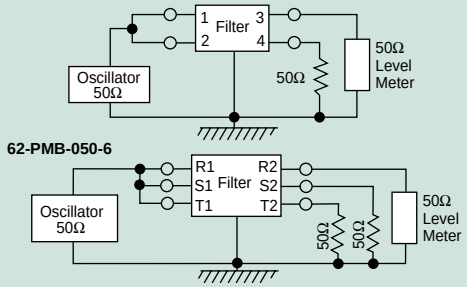
62-PMB

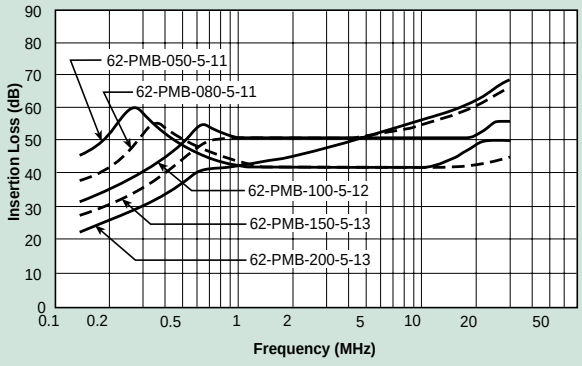


MODEL	A	B	C
62-PMF/PMB-100-200	1.490 *(38)*	.944 *(24)*	.433 *(11)*
62-PMF/PMB-050-080	1.258 *(32)*	.786 *(20)*	0 *(0)*

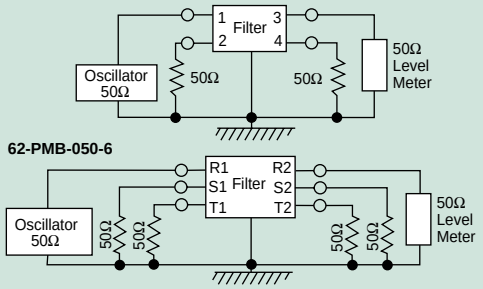
Dimensions in inches *(mm)*

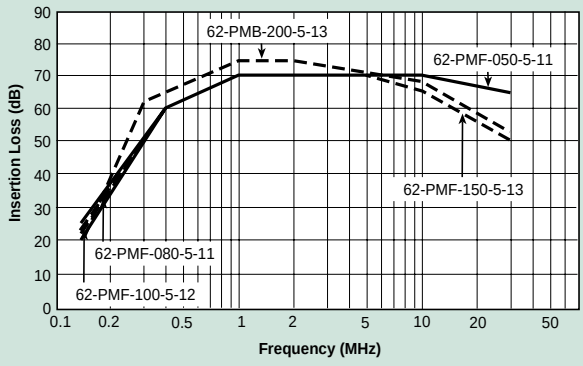
Common Mode





Normal Mode





SPECTRUM CONTROL INC.

Power Line Filters
Single Stage

12-PMF Series

Features

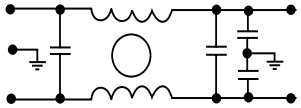
- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component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

Applications

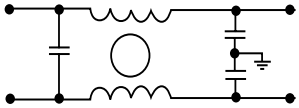
- Digital equipment
- Computers and peripherals
- Measuring instruments
- Medical equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters and converters
- Telecommunications equipment
- Office automation equipment, such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

Circuit Diagram

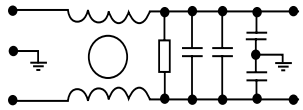
Circuit 1



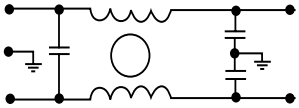
Circuit 2



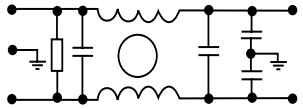
Circuit 3



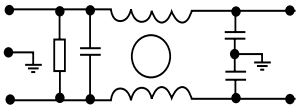
Circuit 4



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				2	B	
12-PMF-006-5-A		6A		4	A	
12-PMF-006-5-C				1	C	
12-PMF-006-5-D				6	D	
12-PMF-010-5-A		10A		2	A	
12-PMF-010-5-C				3	C	
12-PMF-015-5-C		15A		5		
12-PMF-015-5-E					E	
12-PMF-020-5-C		20A			C	
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.

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Power Line Filters
Single Stage

12-PMF Series

Figure A

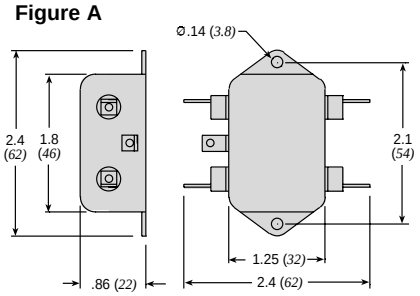


Figure B

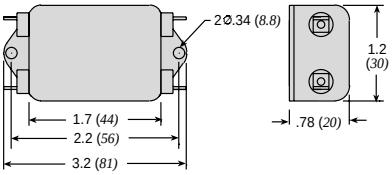


Figure C

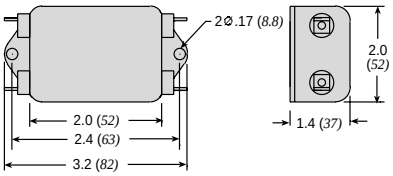


Figure D

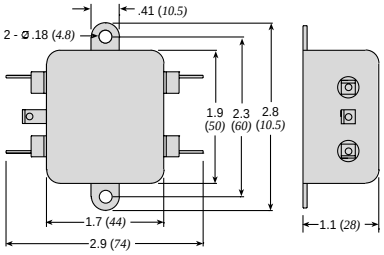
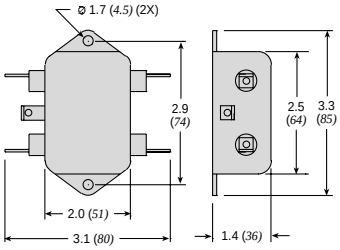
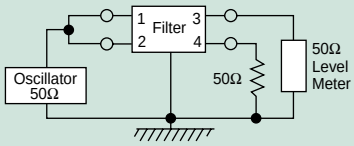


Figure E

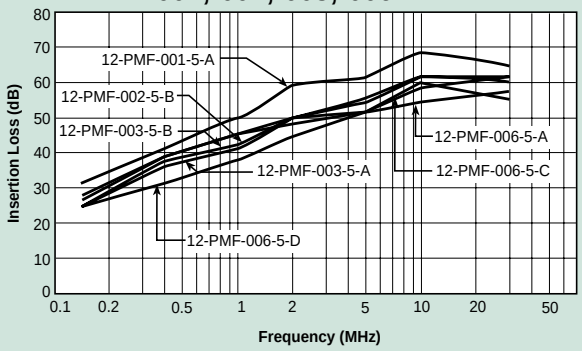


Dimensions in inches *(mm)*

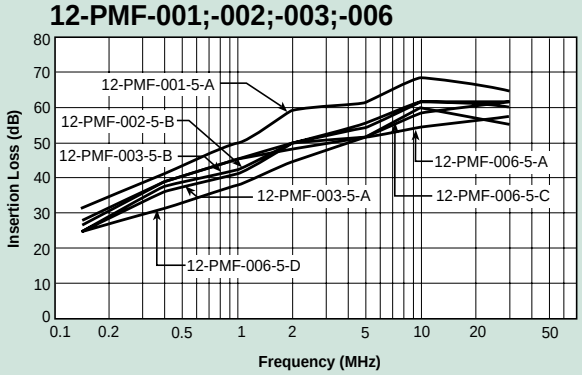
Common Mode



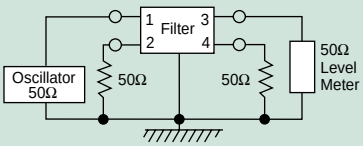
12-PMF-001;-002;-003;-006



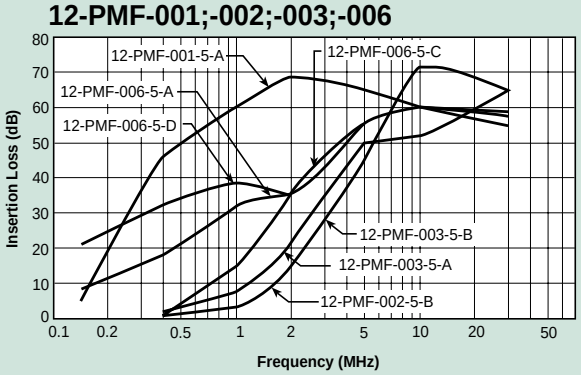
12-PMF-001;-002;-003;-006



Normal Mode



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



12-PMF-010;-015;-020