

Power Line Filters

Compact design requires minimal real estate and delivers excellent filtering characteristics for both differential and common mode. RoHS compliant, easily installed for a broad array of applications.

2 - 6

Appliance Filters

2 - 3

11-MPC Series

4 - 6

62-AL/62-AC Series

7 - 22

Single Stage

7 - 8

62-PPF/PQF/PRF Series

Single Stage Wiries Leads

9 - 10

62-PML Series

Single Stage With Wire Leads for Medical Applications

11 - 12

12-PML & 12-PMF Series

13 - 14

62-LMF & LMB Series

15 - 16

62-PMF & PMB Series

17 - 18

12-PMF Series

Higher Current

19 - 20

62-PMB Series

21 - 22

12-PMB Series

23 - 25

DC - Higher Current

23 - 25

12-PMF & PMB DC Series

26 - 33

Dual Stage

26 - 27

62-MMF Series

28 - 29

12-MMF & 12-MMB Series

30 - 31

12-MMF & 12-MMB Series

32 - 33

12-MMF & 12-MMB Series



Power Line Filters | Appliance Filters

11-MPC Series

Features

- Miniature general purpose PCB mounted filter
- Requires minimal PCB real estate space
- Low cost
- Operating temperature: -25°C to +70°C
- Two forms of cases are available: metal case and plastic case

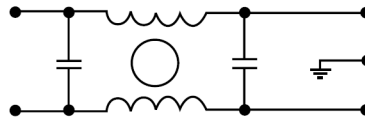
Applications

- Personal computers and peripherals
- Digital AV equipment
- Measuring instruments
- Medical equipment
- Monitors and display units
- Home appliances

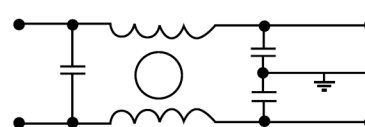


Circuit Diagram

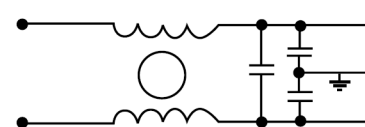
Circuit 1



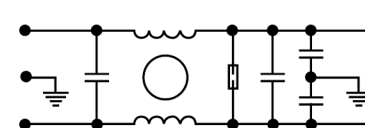
Circuit 2



Circuit 3



Circuit 4



Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)
11-MPC-001-5-A	120/250VAC	1A	0.50mA	2	A	30°C
11-MPC-003-5-E		3A	0.50mA	3	E	
11-MPC-006-5-B		6A		2	A1	
11-MPC-006-5-C					C	
11-MPC-016-5-B		16A	0.2mA	4	B	

Note: Test voltage: 1500VAC one minute, line to ground
Insulation resistance: 300 Mohm min. at 500VDC
Voltage drop: 1V max. at rated current
Weight: 17.5g

Power Line Filters | Miniature Printed Circuit Board

11-MPC Series

Figure A

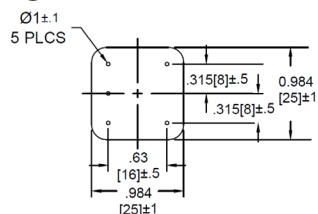


Figure A1

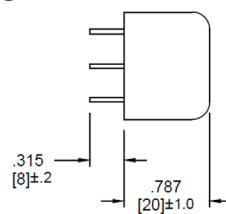


Figure B

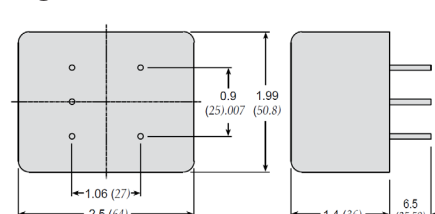


Figure C

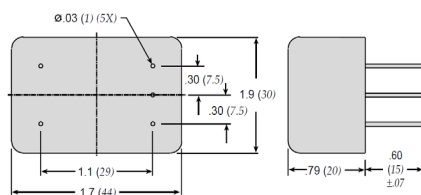


Figure D

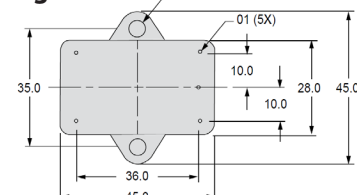
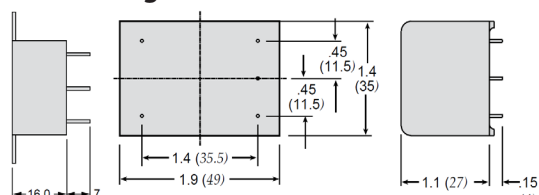
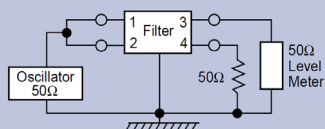


Figure E

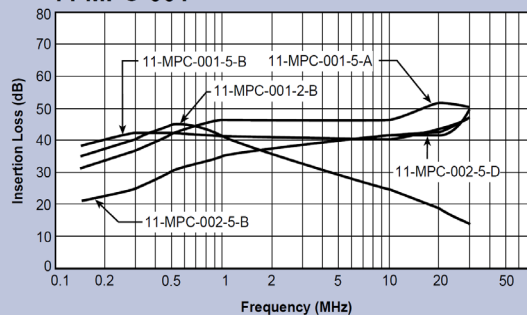


Dimensions in inches (*mm*)

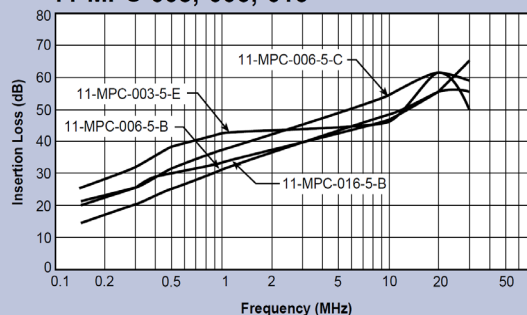
Common Mode



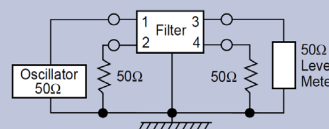
11-MPC-001



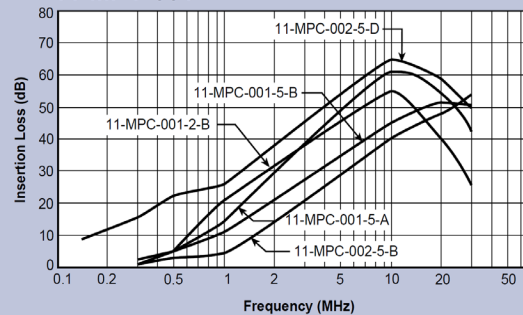
11-MPC-003;-006;-016



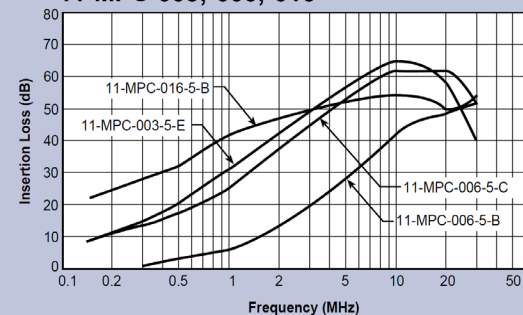
Normal Mode



11-MPC-001



11-MPC-003;-006;-016



Power Line Filters | Appliance Filters

62-AL/62-AC Series



Tested and found to be
IAW VDE 0565 Part 3

Features

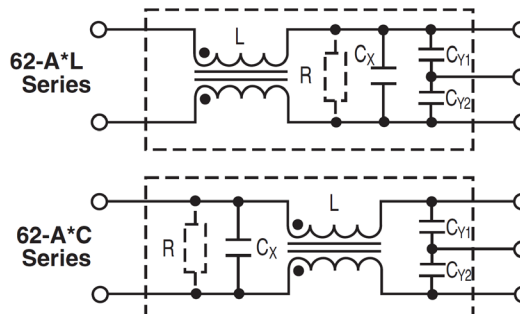
- Low-cost plastic case
- Compact design requires minimal real estate space
- Suitable for products that must conform to FCC regulations
- Wide variety of circuit and filtering options
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for reliability
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 5)



Applications

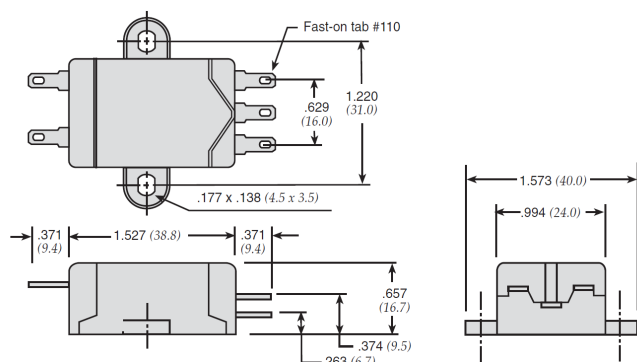
- Personal computers and peripherals
- Digital equipment
- Industrial equipment
- Vending machines
- Home appliances
- Office equipment

Circuit Diagrams



*R = w/ Bleeder Resistor

F = w/o Bleeder Resistor



Dimensions in inches (*mm*)

Power Line Filters | Appliance Filters

62-AL/62-AC Series

Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance C _y C _x		Inductance (L ₁)	Temperature Rise (Max.)
62-AFL-010-3-11	250VAC	1.0A	0.35mA	2200pF	0.1uF	11.0mH	40°C
62-AFC-010-3-11							
62-AFL-010-5-11			0.50mA	3300pF			
62-AFC-010-5-11							
62-AFL-016-3-11		1.6A	0.35mA	2200pF		6.0mH	
62-AFC-016-3-11							
62-AFL-016-5-11			0.50mA	3300pF			
62-AFC-016-5-11							
62-AFL-030-3-11		3.0A	0.35mA	2200pF		2.4mH	
62-AFC-030-3-11							
62-AFL-030-5-11			0.50mA	3300pF			
62-AFC-030-5-11							
62-AFL-045-3-11		4.5A	0.35mA	2200pF		1.0mH	
62-AFC-045-3-11							
62-AFL-045-5-11			0.50mA	3300pF			
62-AFC-045-5-11							
62-AFL-060-3-11		3.0A	0.35mA	2200pF		0.53mH	
62-AFC-060-3-11							
62-AFL-060-5-11			0.50mA	3300pF			
62-AFC-060-5-11							

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

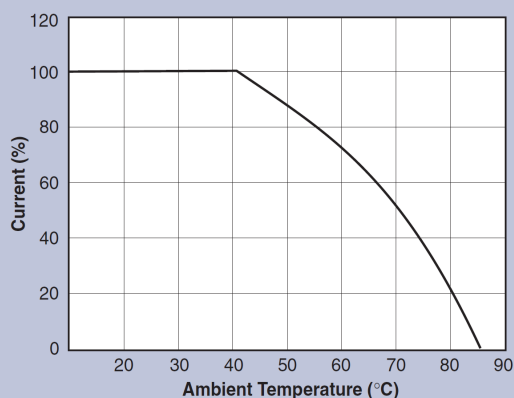
Insulation resistance: 300 Mohm min. at 500VDC

Voltage drop: 1V max.

* Available with bleeder resistor

Replace F with R for part number

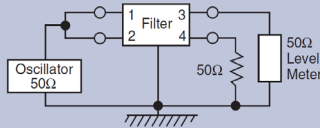
Temperature Characteristics



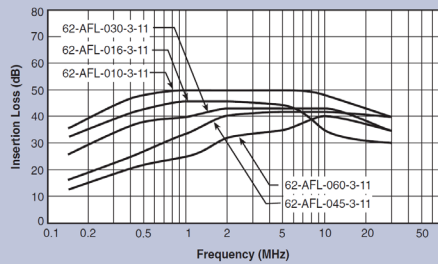
Power Line Filters | Appliance Filters

62-AL/62-AC Series

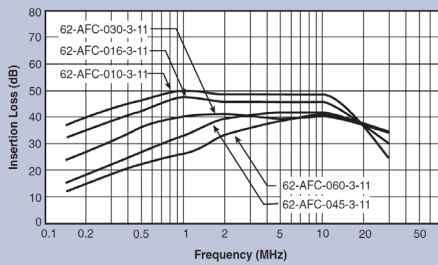
Common Mode



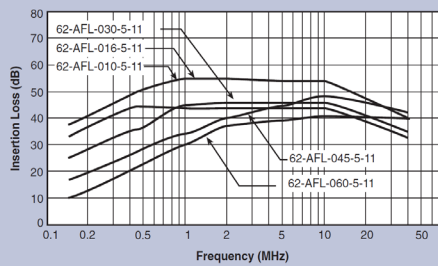
62-AFL-xxx-3-11



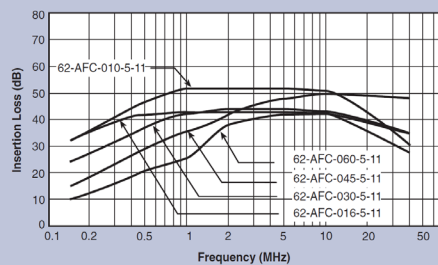
62-AFC-XXX-3-11



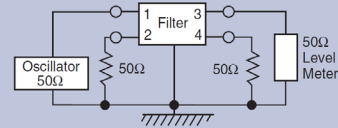
62-AFL-xxx-5-11



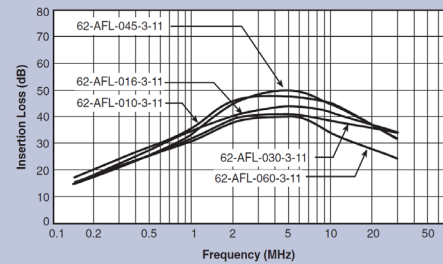
62-AFC-xxx-5-11



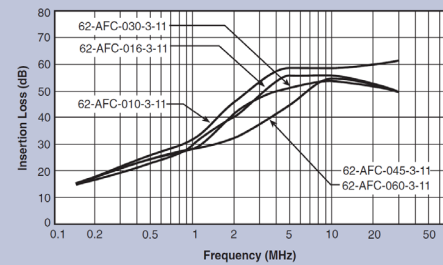
Normal Mode



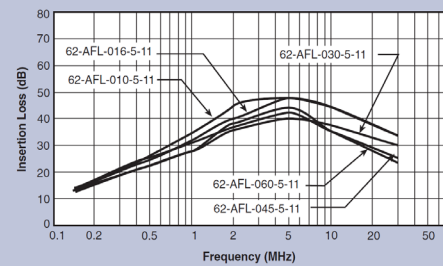
62-AFL-XXX-3-11



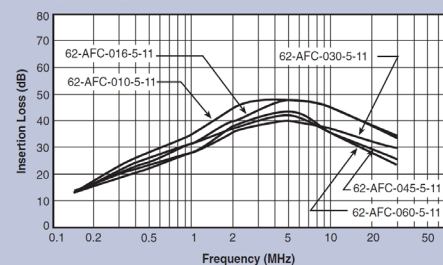
62-AFC-XXX-3-11



62-AFL-xxx-5-11



62-AFC-xxx-5-11



Power Line Filters | Single Stage

62-PPF/PQF/PRF Series



Tested and found to be
IAW VDE 0565 Part 3

Features

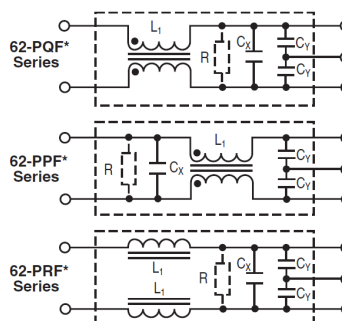
- Low-cost plastic case
- Compact design requires minimal real estate space
- Suitable for products that must conform to FCC and FTZ regulations
- Wide variety of circuit and filtering options
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for reliability
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 8)

Applications

- Personal computers and peripherals
- Digital equipment
- Industrial equipment
- Vending machines
- Office equipment



Circuit Diagrams



Specifications

*Bleeder Resistor is available only for 62-P(Q/R/P)-XXX-X-12w

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance C _y C _x		Inductance (L ₁)	Temperature Rise (Max.)
62-PQF-020-5-11	250VAC	2A	0.50mA	3300pF	0.1uF	15mH	30°C
62-PQF-020-5-12					.22uF		
62-PPF-020-5-11					0.1uF		
62-PPF-020-5-12					.22uF		
62-PQF-030-5-11		3A			0.1uF	8mH	
62-PQF-030-5-12					.22uF		
62-PPF-030-5-11					0.1uF		
62-PPF-030-5-12					.22uF		
62-PQF-060-5-11		6A			0.1uF	2.1mH	
62-PQF-060-5-12					.22uF		
62-PPF-060-5-11					0.1uF		
62-PPF-060-5-12					.22uF		
62-PRF-010-5-11		1A			0.1uF	486uH	
62-PRF-010-5-12					.22uF		
62-PRF-020-5-11		2A			0.1uF	181uH	
62-PRF-020-5-12					.22uF		
62-PRF-030-5-11		3A			0.1uF	97uH	
62-PRF-030-5-12					.22uF		

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. (except 62-PRF-010-5-11) at rated current
62-PRF-010-5-11: 1.5V max. at rated current

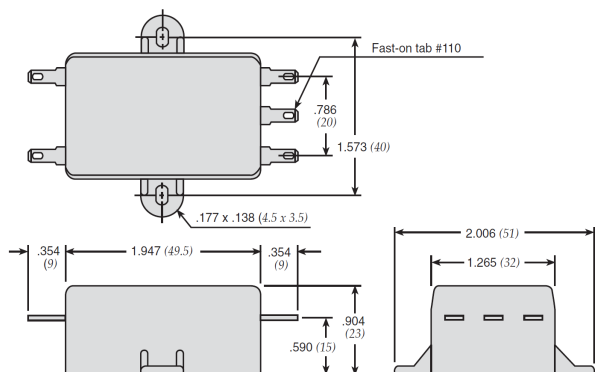
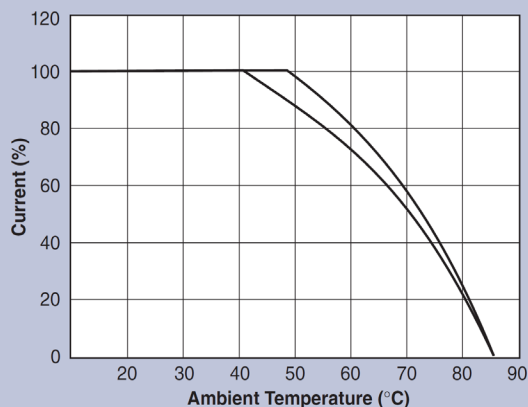
Weight: 62-PPF & PQF Series: 2.11 ounces (60 grams)

62-PRF Series: 1.76 ounces (50 grams)

Power Line Filters | Single Stage

62-PPF/PQF/PRF Series

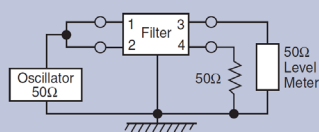
Temperature Characteristics



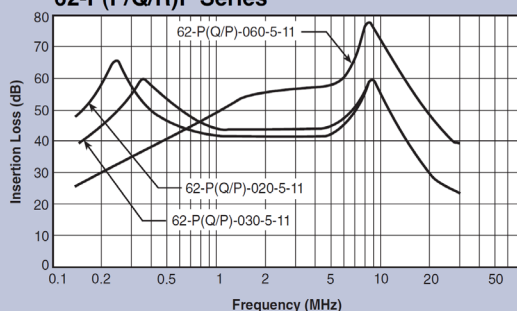
Also available with .250 Fast-ons

Dimensions in inches (mm)

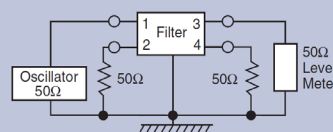
Common Mode



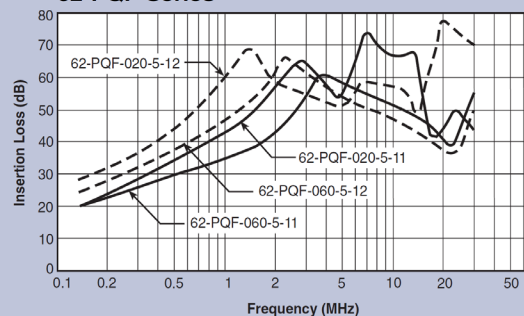
62-P(Q/P/R)F Series



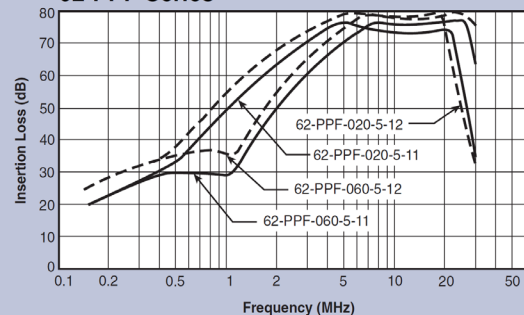
Normal Mode



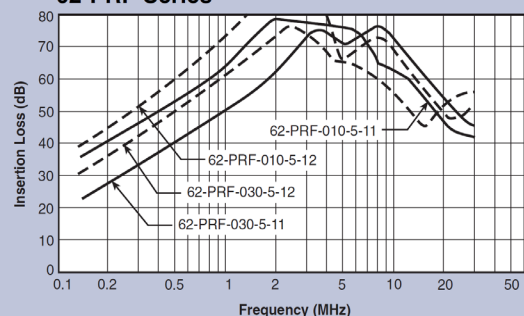
62-PQF Series



62-PPF Series



62-PRF Series



Power Line Filters | Single Stage Wire Leads

62-PML Series



Tested and found to be
IAW VDE 0565 Part 3

Features

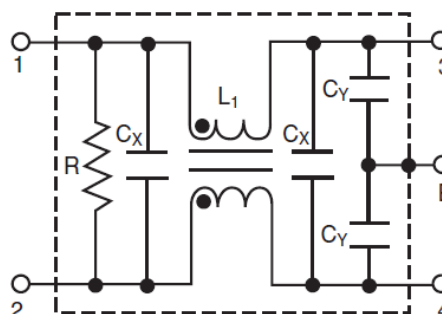
- Compact design requires minimal real estate space
- Suitable for products that must conform to FCC and FTZ regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective shielding
- Excellent filtering characteristics for both normal mode and common mode
- Structure provides effective shielding for noise generated externally and internally
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 10)



Applications

- Digital equipment
- Personal computers and peripherals
- Measuring instruments
- Medical equipment
- Factory automation equipment

Circuit Diagrams



Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance C_Y	C_X	Inductance (L_1)	Temperature Rise (Max.)
62-PML-015-3-11	250VAC	1.5A	0.35mA	2200pF	0.1uF	10.0mH	30°C
62-PML-015-5-11			0.50mA	3300pF			
62-PML-030-3-11		3A	0.35mA	2200pF		4.3mH	
62-PML-030-5-11			0.50mA	3300pF			
62-PML-050-3-11		5A	0.35mA	2200pF		2.4mH	
62-PML-050-5-11			0.50mA	3300pF			

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. at rated current

Weight: 62-PML-015 Series: 3.06 ounces (87 grams)

62-PML-030 Series: 3.17 ounces (90 grams)

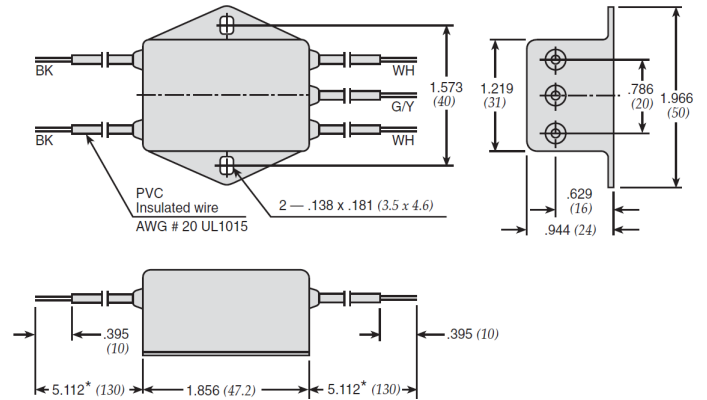
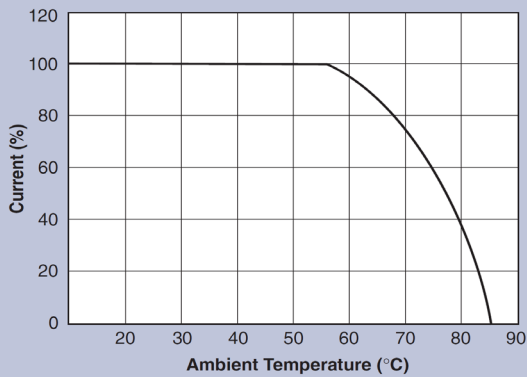
62-PML-050 Series: 3.28 ounces (93 grams)

Discharge time: 0.4 sec. max.

Power Line Filters | Single Stage Wire Leads

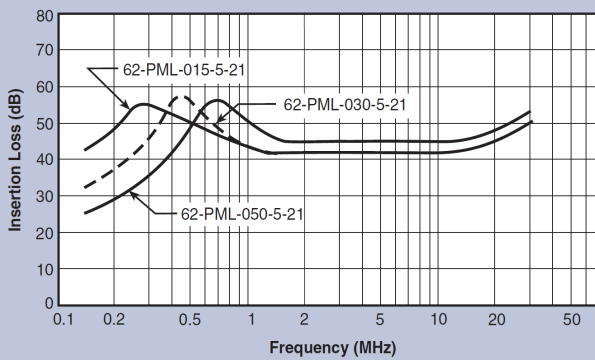
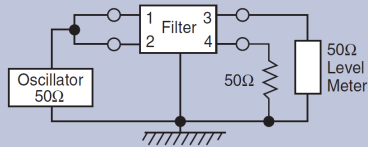
62-PML Series

Temperature Characteristics

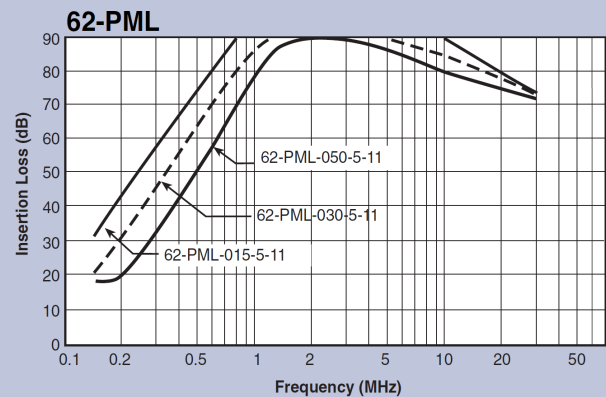
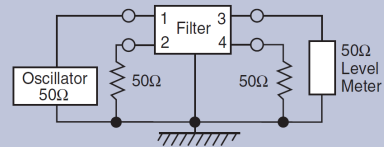


* Custom lengths available upon request. Dimensions in inches (mm)

Common Mode



Normal Mode



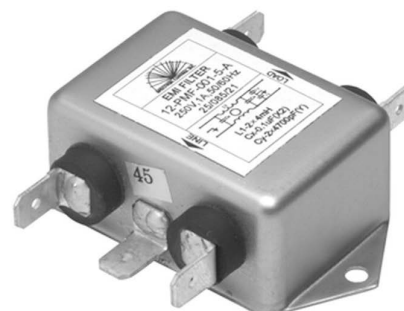
Power Line Filters | Single Stage Wire Leads

for Medical Purpose Applications; 12-PML & 12-PMF Series



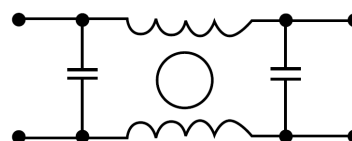
Features

- Compact design requires minimal real estate space
- Suitable for products that must conform to FCC and FTZ regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective shielding
- Excellent filtering characteristics for both normal mode and common mode
- Structure provides effective shielding for noise generated externally and internally
- Operating temperature: -25°C to +85°C
- Low leakage current

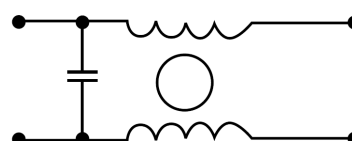


Circuit Diagram

Circuit 1



Circuit 2



Applications

- Digital equipment
- Personal computers and peripherals
- Measuring instruments
- Medical equipment
- Factory automation equipment

Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)	
12-PML-001-2-A	120/250VAC	1A	5uA	1	A	30°C	
12-PML-002-2-A		2A					
12-PML-006-2-A		6A					
12-PML-010-2-A		10A					
12-PMF-001-2-B		1A		2	B		
12-PMF-002-2-B		2A					
12-PMF-006-2-B		6A					
12-PML-001-2-C		1A		1	C		

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. at rated current

Discharge time: 0.4 sec. max.

Power Line Filters | Single Stage Wire Leads

for Medical Purpose Applications; 12-PML & 12-PMF Series

Figure A

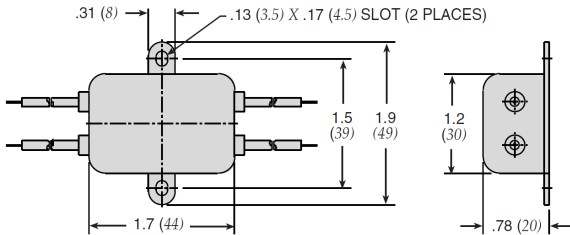


Figure C

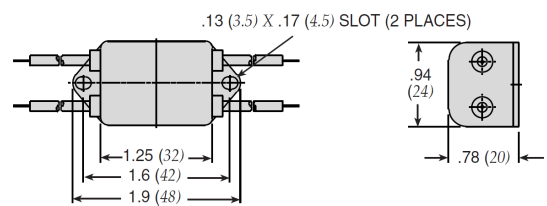
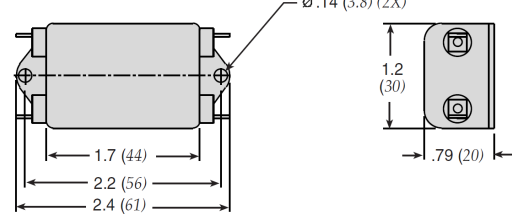
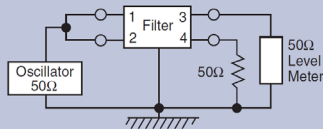


Figure B

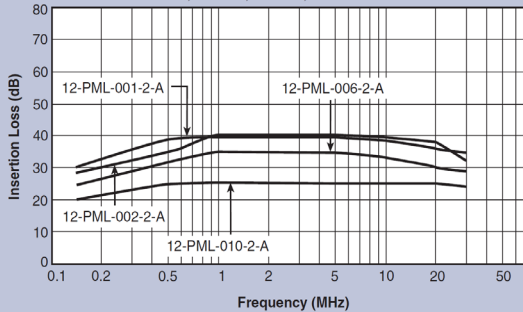


Dimensions in inches (mm)

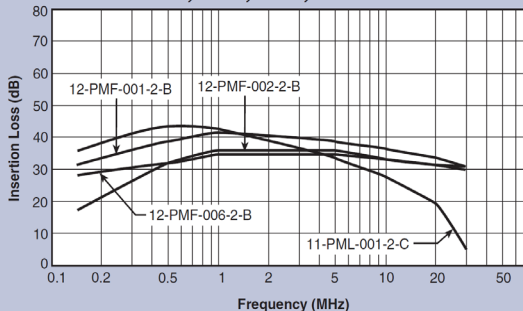
Common Mode



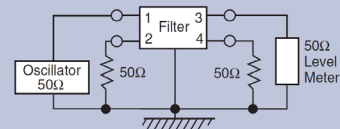
12-PML-001;-002;-006;-010



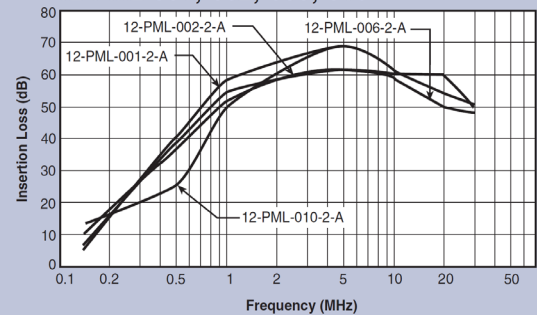
12-PMF-001;-002;-006;-010



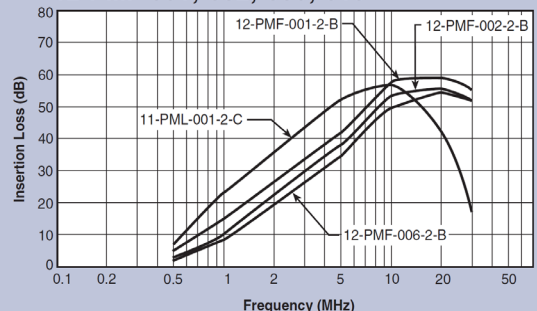
Normal Mode



12-PML-001;-002;-006;-010



12-PMF-001;-002;-006;-010



Power Line Filters | Single Stage

62-LMF & LMB Series



Tested and found to be
IAW VDE 0565 Part 3

Features

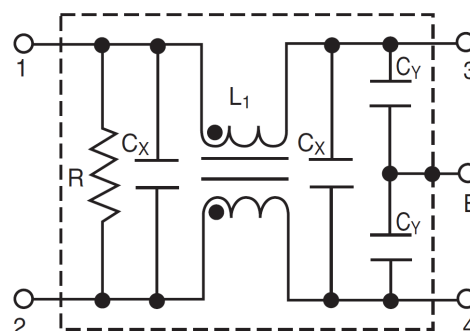
- Space saving, compact designs
- Suitable for products that must conform to FCC and FTZ regulations
- Excellent filtering characteristics for both normal mode and common mode
- Structure provides effective shielding for noise generated externally and internally
- Metal case provides effective shielding
- Rugged construction
- Operating temperature: -25°C to +85°C (including temperature rise, see graph on page 14)



Applications

- Digital equipment
- Office automation equipment
- Computers and peripherals
- Instrumentation and controls

Circuit Diagram



Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance C_Y	C_X	Inductance (L_1)	Temperature Rise (Max.)
62-LMB-030-5-11	250VAC	3A	0.50mA	0.50mA	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							
62-LMF-080-5-11							
62-LMB-100-5-11							
62-LMF-100-5-11							

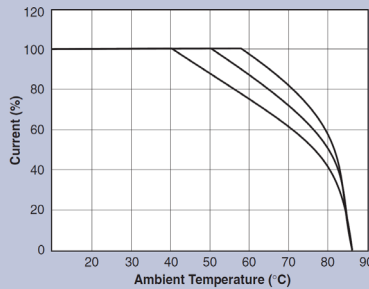
Note: Test voltage: 1500VAC one minute, line to ground
Insulation resistance: 300 Mohm min. at 500VDC
Voltage drop: 1V max. at rated current
Discharge time: 0.4 sec. max.
Weight: 5.3 ounces (150 grams)

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

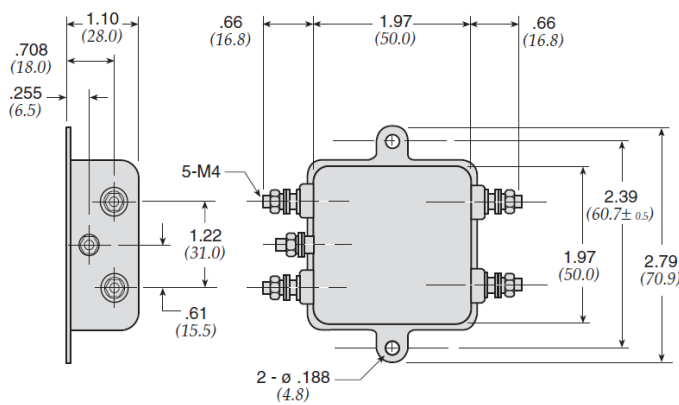
Power Line Filters | Single Stage

62-LMF & LMB Series

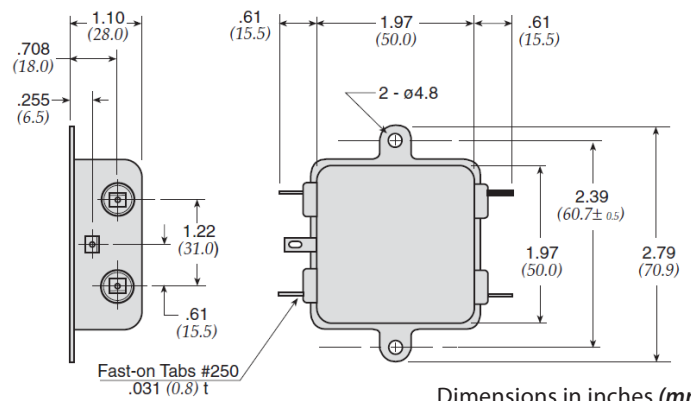
Temperature Characteristics



62-LMB

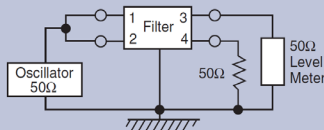


62-LMF

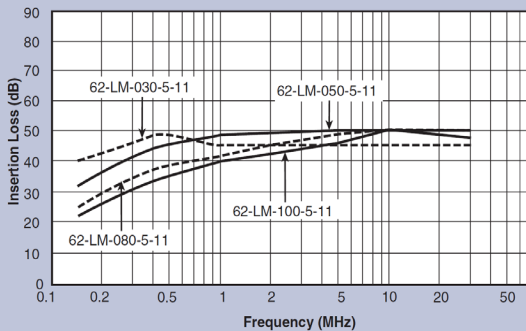


Dimensions in inches (mm)

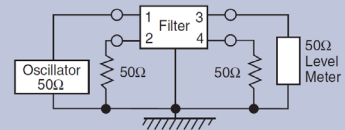
Common Mode



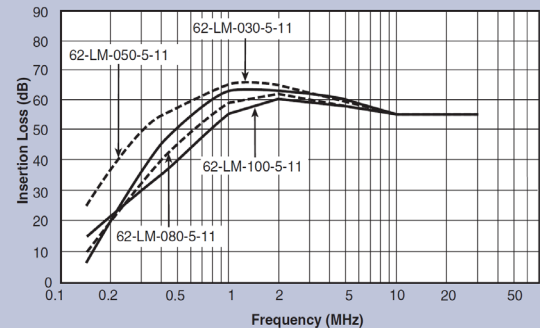
62-LMF & LMB



Normal Mode



62-LMF & LMB



Power Line Filters | Single Stage

62-PMF & PMB Series



Tested and found to be
IAW VDE 0565 Part 3

Features

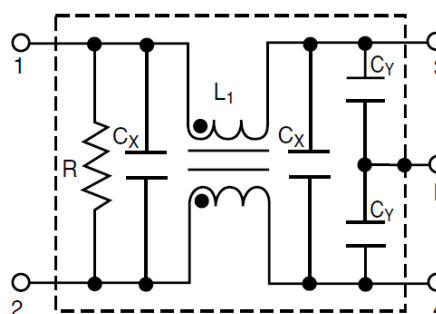
- Space saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component 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 16)



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
- Wireless communications equipment
- Office automation equipment

Circuit Diagram



Specifications

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

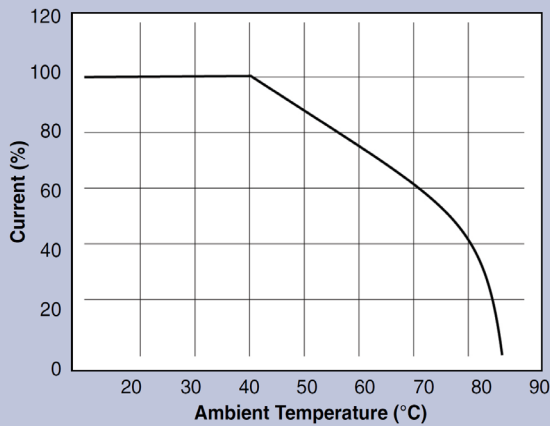
Note: Test voltage: 1500VAC one minute, line to ground
Insulation resistance: 300 Mohm min. at 500VDC
Voltage drop: 1V max.
Discharge time: 0.4 sec. max.
Weight: 8.82 ounces (250 grams)

* 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

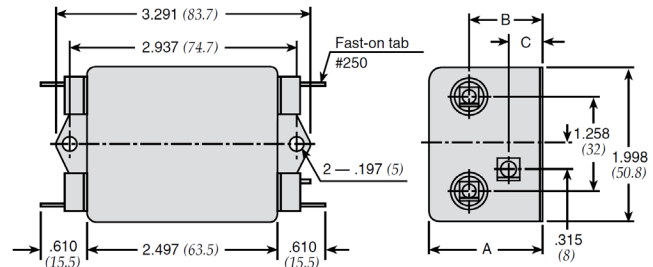
Power Line Filters | Single Stage

62-PMF & PMB Series

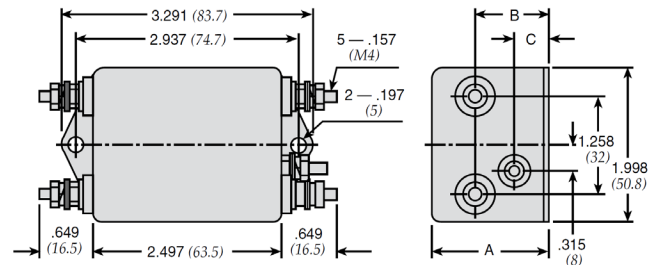
Temperature Characteristics



62-LMF



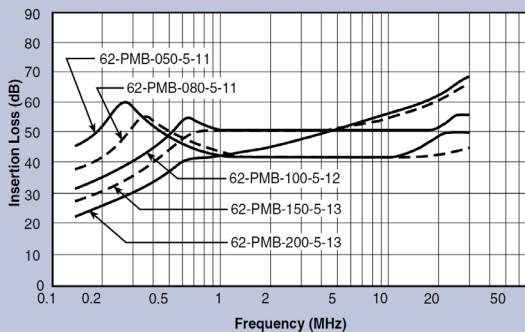
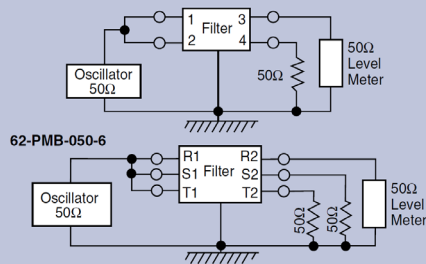
62-PMB



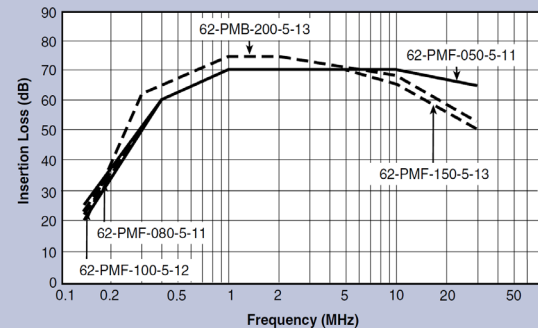
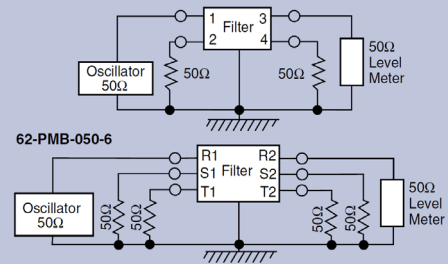
Model	A	B	C
62-PMF/PMB-100-200	1.490 (38)	.944 (24)	.433 (11)
62-PMF/PMB-050-080	1.258 (32)	.786 (20)	0 (0)

Dimensions in inches (mm)

Common Mode



Normal Mode



Power Line Filters | Single Stage



12-PMF Series

Features

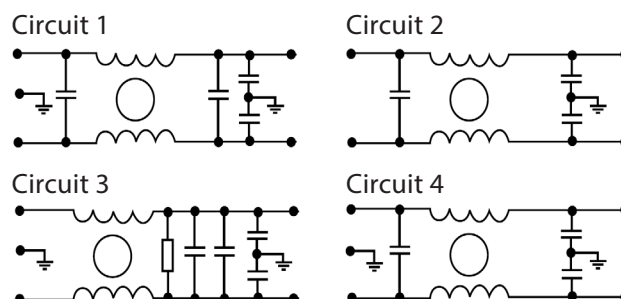
- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component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



Applications

- Digital equipment
- Personal computers and peripherals
- Measuring equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters, converters
- Wireless communication equipment
- Office automation equipment

Circuit Diagrams



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	0.50mA	1	A	30°C
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		10A		6	D	
12-PMF-010-5-A				2	A	
12-PMF-010-5-C				3	C	
12-PMF-015-5-C		15A		5		
12-PMF-015-5-E					C	
12-PMF-020-5-C		20A			D	
12-PMF-020-5-D					E	
12-PMF-020-5-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

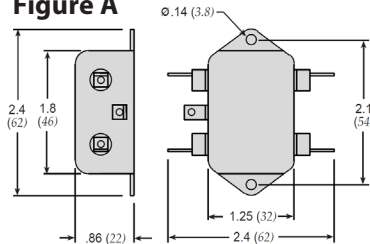


Figure B

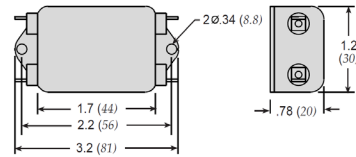


Figure C

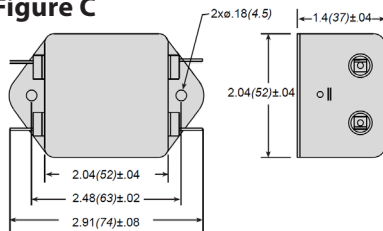


Figure D

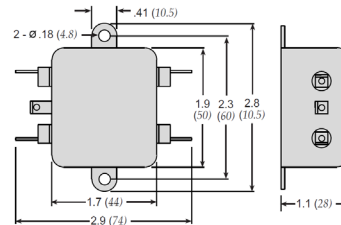
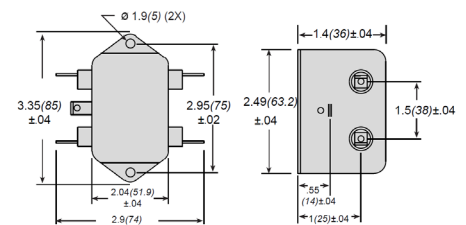
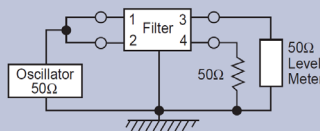


Figure E

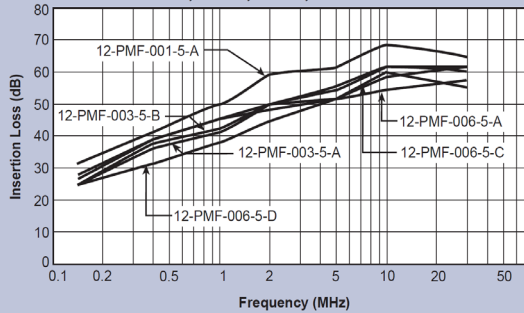


Dimensions in inches (mm)

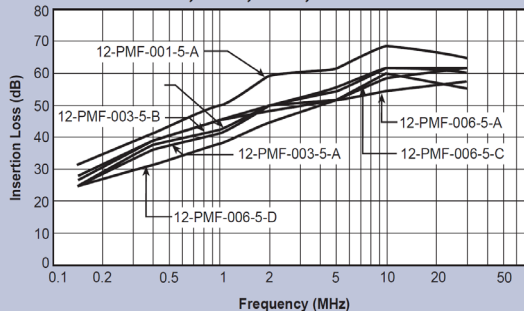
Common Mode



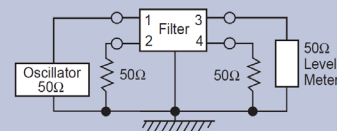
12-PMF-001;-002;-003;-006



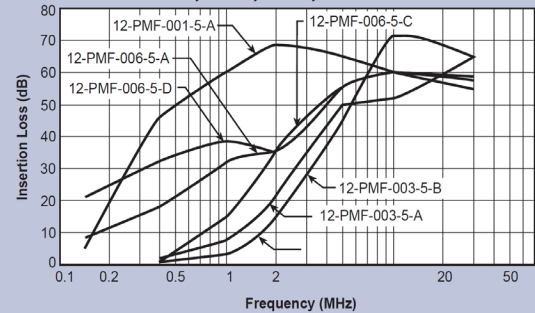
12-PMF-001;-002;-003;-006



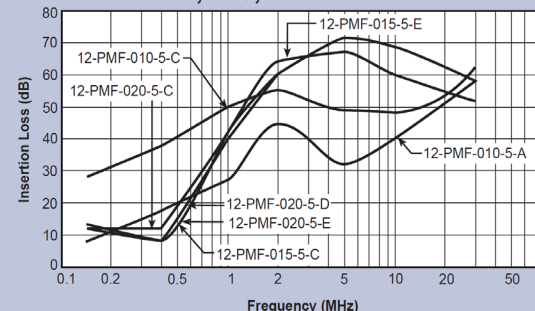
Normal Mode



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



12-PMF-010;-015;-020



Power Line Filters | Single Stage - Higher Current

62-PMB Series

Features

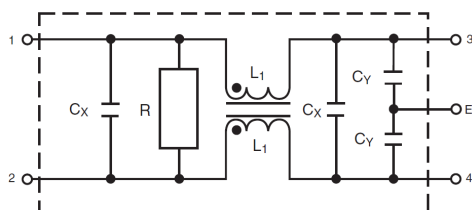
- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component reliability
- Structure provides effective shielding for noise generated externally and internally
- Safety agency approvals
- Designed to be in accordance with VDE 0565 Part 3
- Operating temperature: -25°C to +85°C (including temperature rise)



Applications

- Digital equipment
- Computers and peripherals
- Measuring instruments and medical equipment
- Medical equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters, and converters
- Wireless communications equipment
- Office automation equipment

Circuit Diagram



Specifications

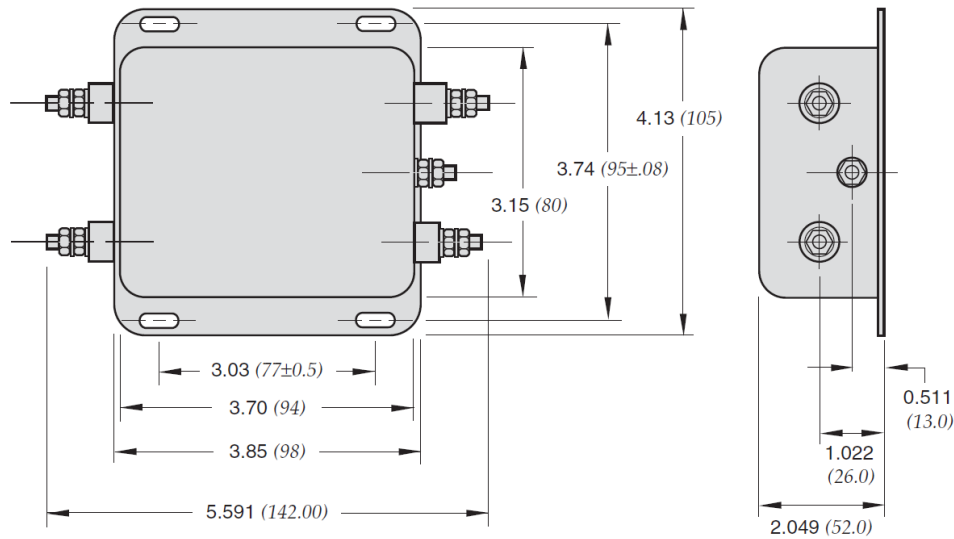
Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance C_Y C_X		Inductance (L_1)	Temperature Rise (Max.)
62-PMB-300-5-14	250VAC	30A	0.50mA	3300pF	.47uF	1.6mH	45°C
62-PMB-400-5-14		40A				0.8mH	

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 - Higher Current

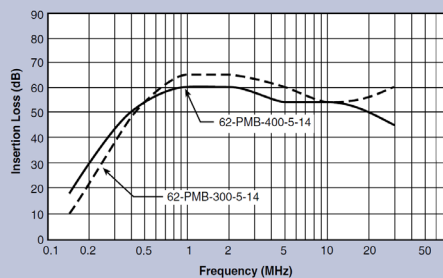
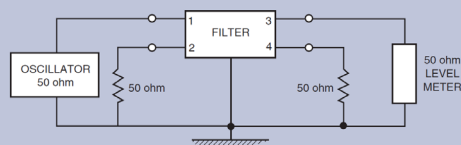
62-PMB Series

62-PMB-300-5-14 and 62-PMB-400-5-14

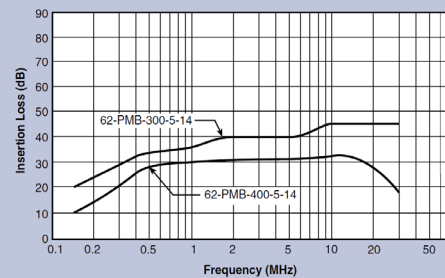
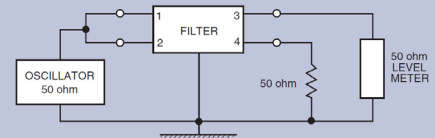


Dimensions in inches (mm)

Normal Mode



Common Mode



Power Line Filters | Single Stage - Higher Current

12-PMB Series

Features

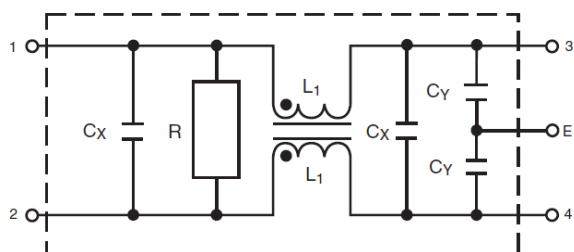
- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective EMI shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component reliability
- Structure provides effective shielding for noise generated externally and internally
- Designed to be in accordance with VDE 0565 Part 3
- Operating temperature: -25°C to +85°C



Applications

- Digital equipment
- Computers and peripherals
- Measuring equipment
- Medical equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters, and converters
- Wireless communications equipment
- Office automation equipment

Circuit Diagrams



Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)			
12-PMB-025-5-A	120/250VAC	25A	0.50mA	1	A	30°C			
12-PMB-030-5-A		30A			B				
12-PMB-035-5-B		35A							
12-PMB-050-5-B		50A			C				
12-PMB-100-8-C		100A	1.0mA						
12-PMB-120-8-C		120A							

Note: Test voltage: 1500VAC one minute, line to earth
Insulation resistance: 300 Mohm min. at 500VDC
Voltage drop: 1V max.
Discharge time: 0.4 sec. max.
Weight: 8.82 ounces (250 grams)

Power Line Filters | Single Stage - Higher Current

12-PMB Series

Figure A

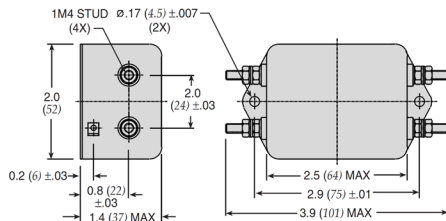


Figure B

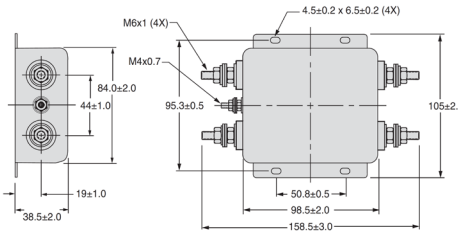
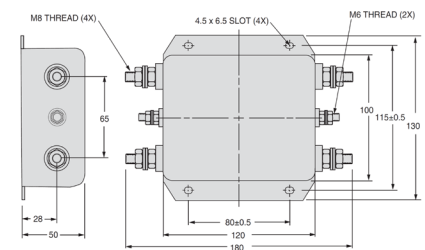
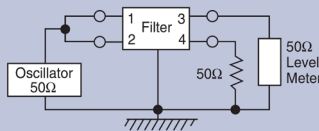


Figure C

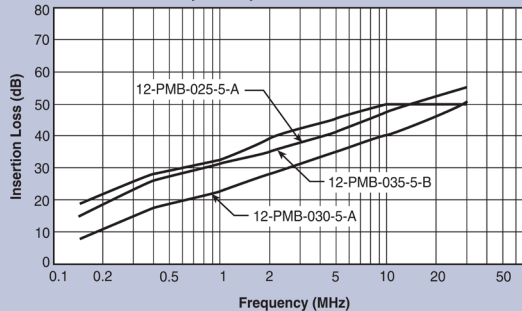


Dimensions in inches (mm)

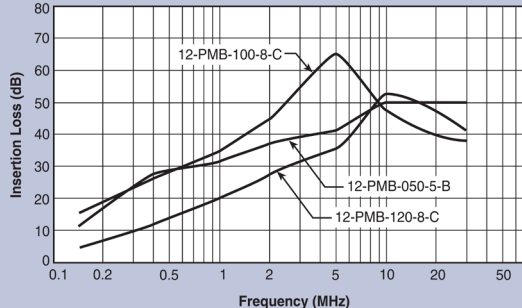
Common Mode



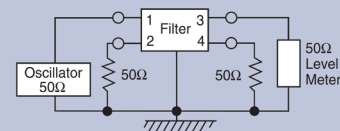
12-PMB-025;-030;-035



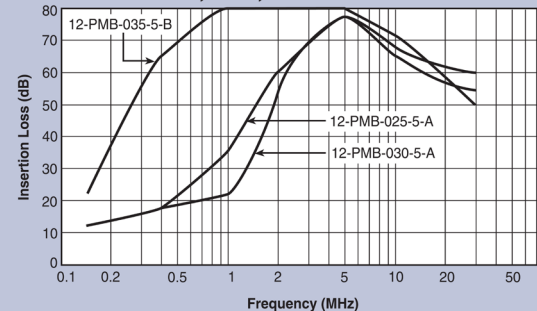
12-PMB-050;-100;-120



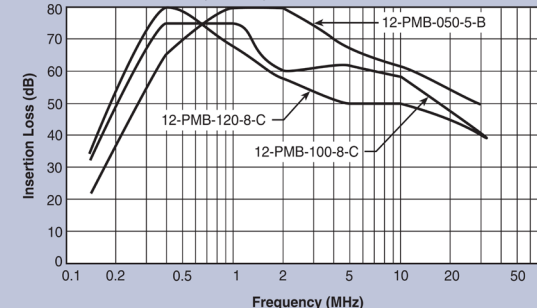
Normal Mode



12-PMB-025;-030;-035



12-PMB-050;-100;-120



Power Line Filters | DC - Higher Current

12-PMF & 12 PMB DC Series

Features

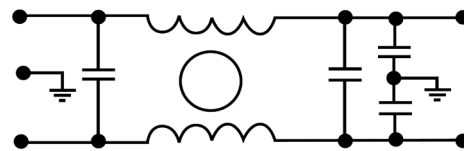
- Space-saving, compact designs
- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective shielding
- Excellent filtering characteristics for both normal mode and common mode
- Epoxy molded for internal component reliability
- Structure provides effective shielding for noise generated externally and internally
- Designed to be in accordance with VDE 0565 Part 3
- Operating temperature: -40°C to +85°C



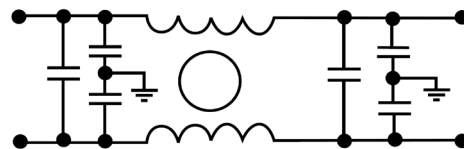
Applications

- Digital equipment
- Computers and peripherals
- Measuring equipment
- Equipment requiring very high impulse attenuation
- Factory automation equipment
- Industrial equipment such as UPS, inverters, and converters
- Wireless communications equipment

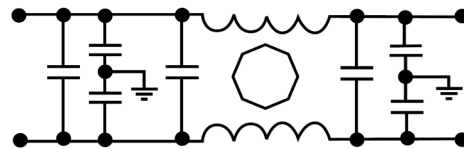
Circuit 1



Circuit 2



Circuit 3



Power Line Filters | DC - Higher Current

12-PMF & 12 PMB DC Series

Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Circuit Diagram	Figure	Temperature Rise (Max.)	
12-PMF-006-DC-C	120/250VAC	6A	1	A	30°C	
12-PMF-010-DC-C		10A				
12-PMF-015-DC-C		15A				
12-PMF-020-DC-C		20A				
12-PMF-025-DC-D		25A		B		
12-PMB-025-DC-F				C		
12-PMB-030-DC-F						30A
12-PMB-035-DC-F		35A				
12-PMB-040-DC-F		40A				
12-PMB-050-DC-B		50A		D		
12-PMB-060-DC-B		60A				
12-PMB-080-DC-G		80A	2	E		
12-PMB-080-DC-C		100A	3	F		
12-PMB-100-DC-C						120A
12-PMB-120-DC-C						140A
12-PMB-140-DC-C		180A	2	G		
12-PMB-180-DC-E		200A				
12-PMB-200-DC-E	260A					
12-PMB-260-DC-E						

Note: Test voltage: 1500VAC one minute, line to earth
Insulation resistance: 300 Mohm min. at 500VDC
Voltage drop: 1V max.
Discharge time: 0.4 sec. max.
Weight: 8.82 ounces (250 grams)

Dimensions in inches (mm)

Figure A

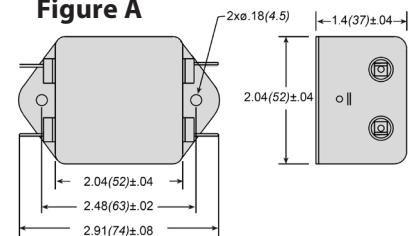


Figure B

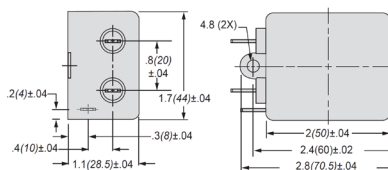


Figure C

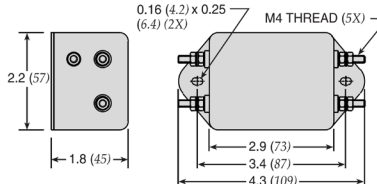


Figure D

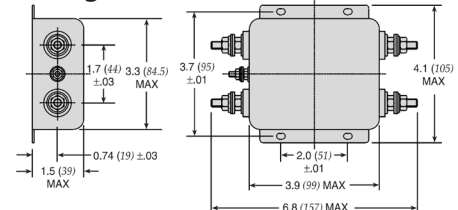


Figure E

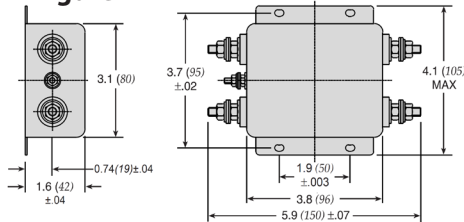


Figure F

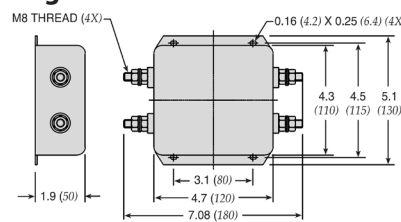
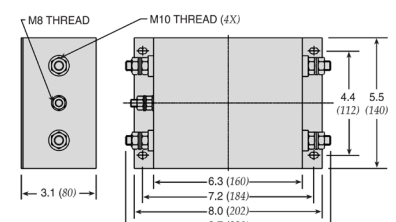


Figure G

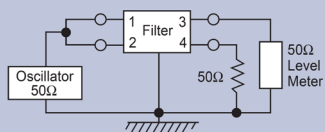


Dimensions in inches (mm)

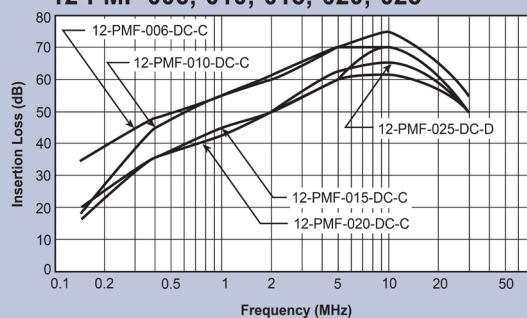
Power Line Filters | DC - Higher Current

12-PMF & 12 PMB DC Series

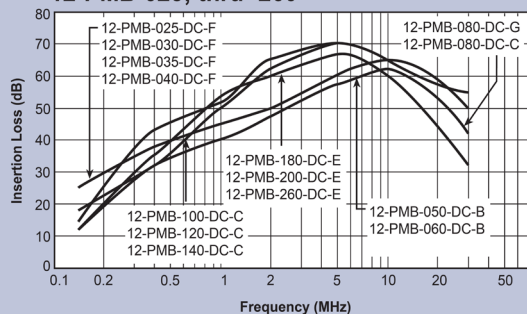
Common Mode



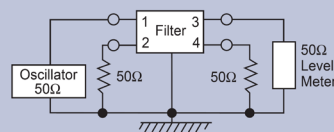
12-PMF-006;-010;-015;-020;-025



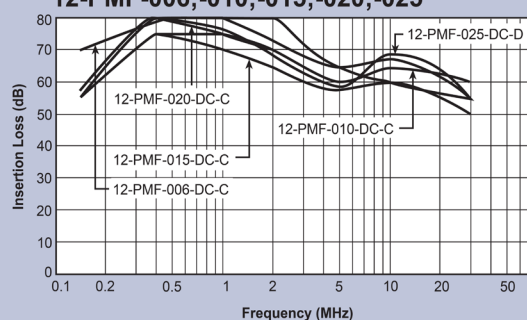
12-PMB-025; thru -260



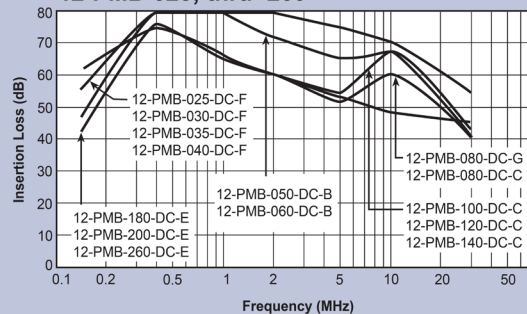
Normal Mode



12-PMF-006;-010;-015;-020;-025



12-PMB-025; thru -260



Power Line Filters | Dual Stage

62-MMF Series

Features

- Suitable for products that must conform to FCC regulations
- Excellent attenuation for high voltage impulse
- Metal case provides effective shielding
- Two stages for excellent filtering characteristics
- 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 27)

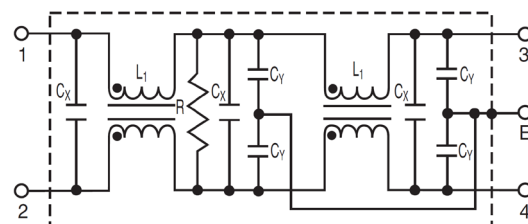


Applications

- Digital equipment
- Personal computers and peripherals
- Measuring instruments and medical equipment
- Medical equipment
- Wireless communications equipment
- Equipment requiring very high impulse attenuation

Circuit Diagram

62-MMF-XXX-7-11



Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Capacitance			Inductance (L ₁)(2X)	Temp. Rise (Max.)
				C _{Y1}	C _{Y2}	C _X		
62-MMF-030-7-11	250VAC	3A	.7mA	3300pF	1000pF	0.1uF	3.7mH	30°C
62-MMF-050-7-11	250VAC	5A	.7mA	3300pF	1000pF	0.1uF	2.9mH	30°C

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

Leakage current: 0.7 mA max.

Voltage drop: 1V max.

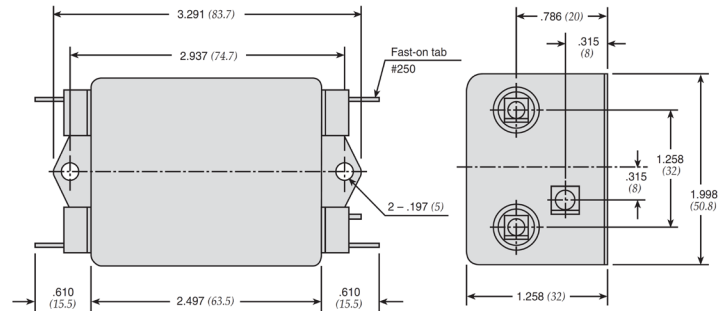
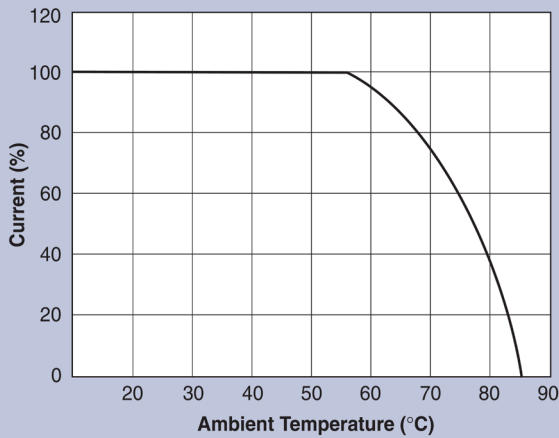
Discharge time: 0.4 sec. max.

Weight: 6.0 ounces (170 grams)

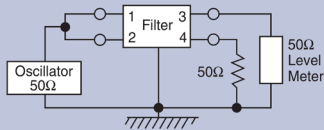
Power Line Filters | Dual Stage

62-MMF Series

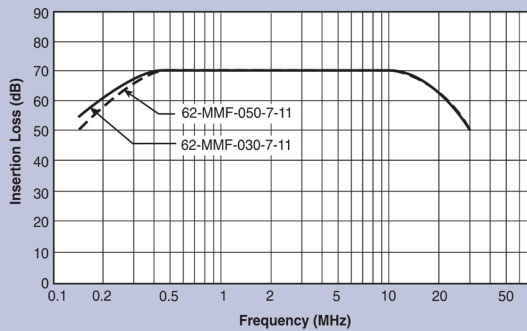
Temperature Characteristics



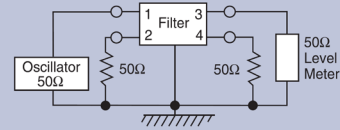
Common Mode



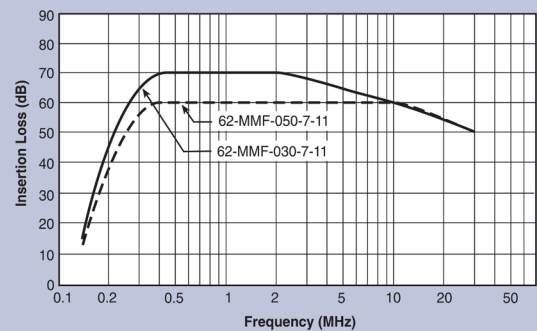
62-MMF



Normal Mode



62-MMF



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
- Medical equipment
- Wireless communications equipment

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					3	
12-MMF-006-5-F		6A		2	A	
12-MMF-006-5-G					C	
12-MMF-008-5-B		8A			A	
12-MMF-010-5-F		10A			A1	
12-MMF-010-5-G					C	
12-MMF-010-5-B		12A			D	
12-MMF-012-5-B		15A			G	
12-MMB-015-5-E		20A			E	
12-MMB-020-5-F		30A			D	
12-MMB-030-5-D		50A				
12-MMB-050-5-C						

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

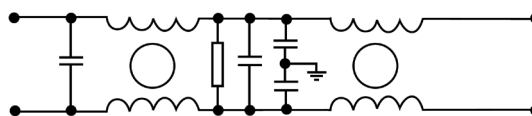
Insulation resistance: 300 Mohm min. at 500VDC

Voltage drop: 1V max.

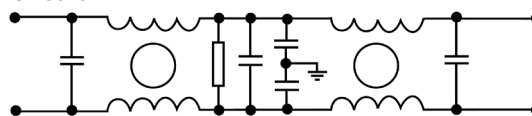
Discharge time: 0.4 sec. max.

Circuit Diagram

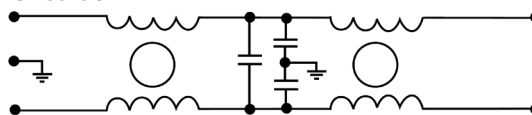
Circuit 1



Circuit 2



Circuit 3



Power Line Filters | Dual Stage

12-MMF & 12-MMB Series

Figure B

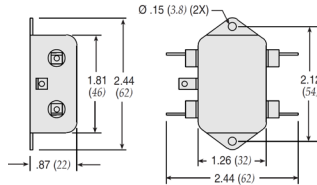


Figure C

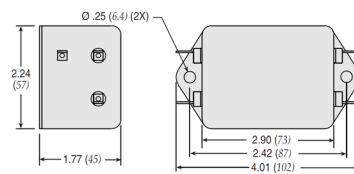


Figure E

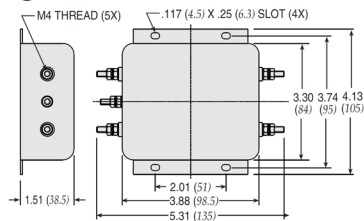


Figure E

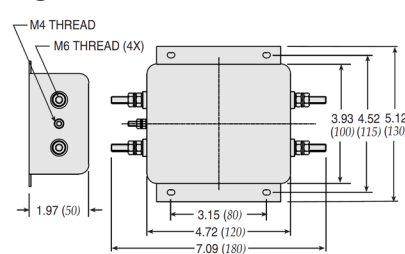


Figure A

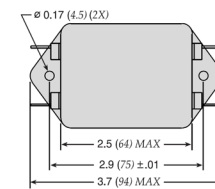


Figure A

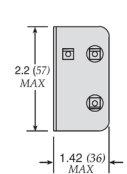


Figure D

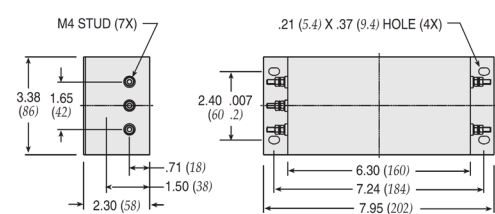
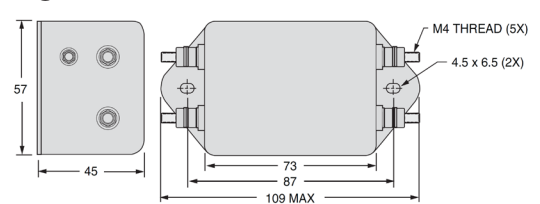
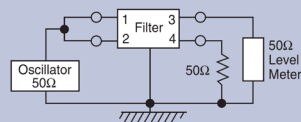


Figure E

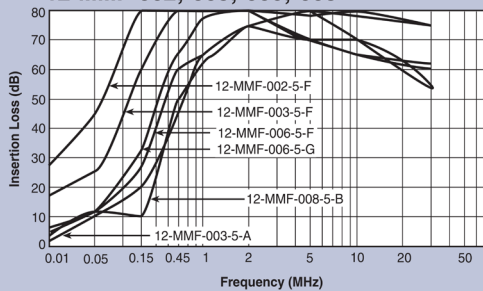


Dimensions in inches (mm)

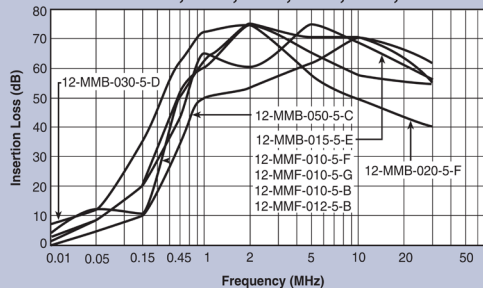
Common Mode



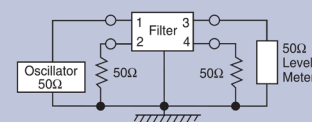
12-MMF-002;-003;-006;-008



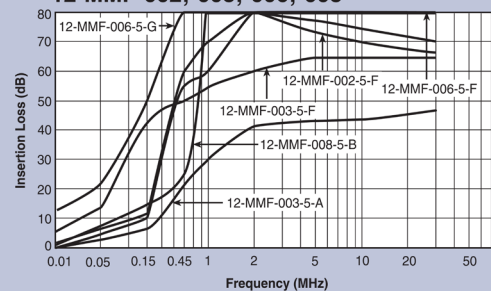
12-MMF-010;-012;-015;-020;-030;-050



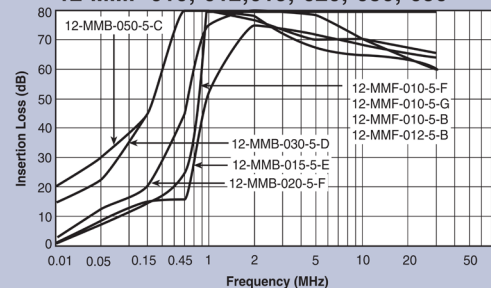
Normal Mode



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



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



Power Line Filters | Dual Stage

12-MMF & 12-MMB Series

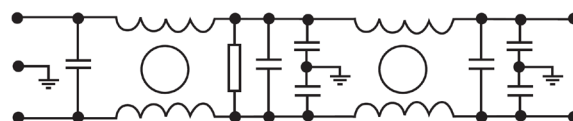
Features

- 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

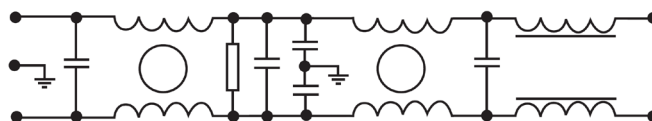


Circuit Diagram

Circuit 1



Circuit 2



Applications

- Digital equipment
- Personal computers and peripherals
- Measuring instruments
- Medical equipment
- Wireless communications equipment
- Equipment requiring very high noise attenuation

Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)
12-MMF-003-11-F	120/250VAC	3A	1.5mA	1	A	30°C
12-MMF-006-11-F		6A				
12-MMF-010-11-F		10A				
12-MMB-015-11-G		15A		1	C	
12-MMB-020-11-D		20A			B	
12-MMB-030-11-D		30A				
12-MMB-040-11-E		40A		1	E	
12-MMB-050-11-H		50A		1	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

Leakage current: 0.7 mA max.

Voltage drop: 1V max.

Discharge time: 0.4 sec. max.

Weight: 6.0 ounces (170 grams)

Power Line Filters | Dual Stage

12-MMF & 12-MMB Series

Figure A

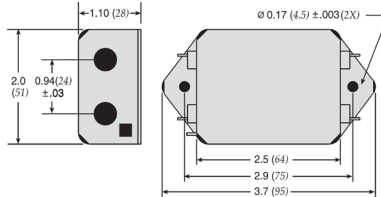


Figure B

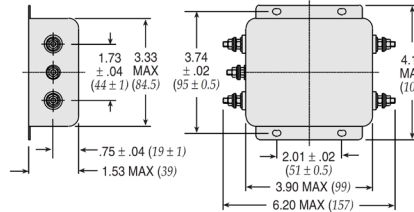


Figure C

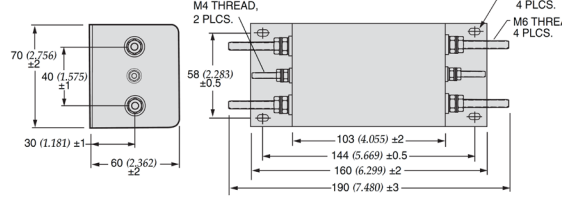


Figure D

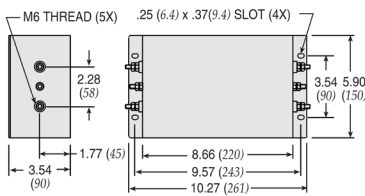
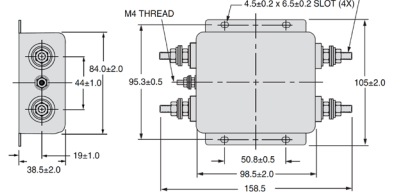
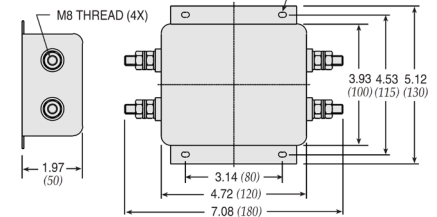


Figure E

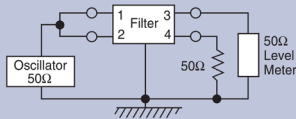


Dimensions in inches (mm)

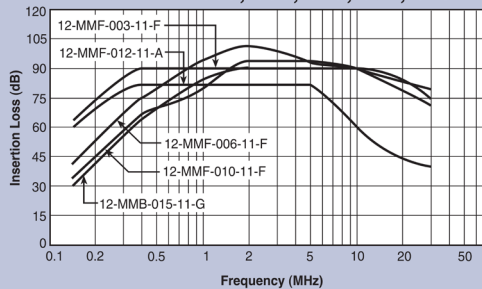
Figure F



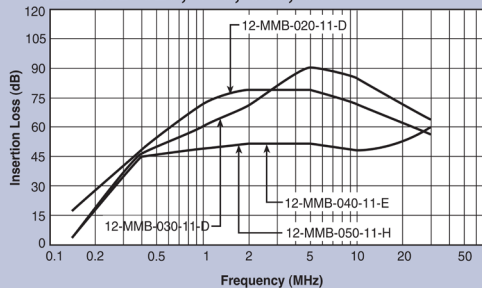
Common Mode



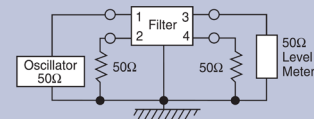
12-MMF/MMB-003;-006;-010;-012;-015



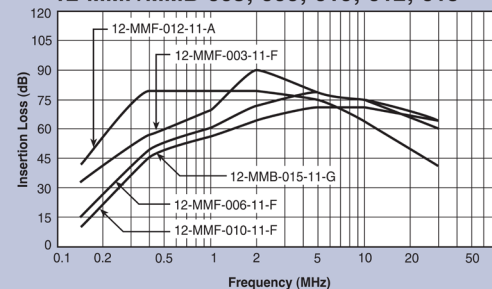
12-MMB-020;-030;-040;-050



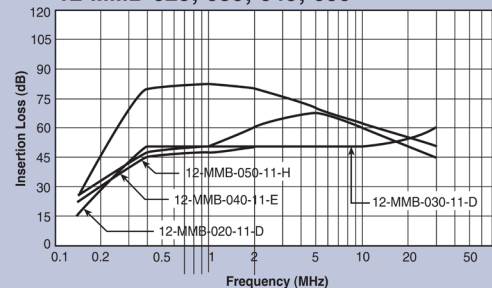
Normal Mode



12-MMF/MMB-003;-006;-010;-012;-015



12-MMB-020;-030;-040;-050



Power Line Filters | Dual Stage

12-MMF & 12-MMB Series

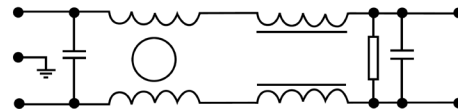
Features

- 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
- Epoxy molded for reliability
- Structure provides effective shielding for noise generated both externally and internally
- Operating temperature: -40°C to +85°C

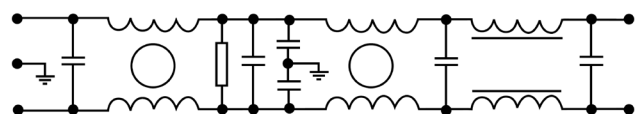


Circuit Diagram

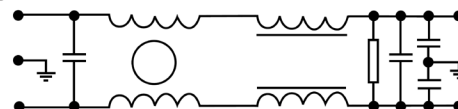
Circuit 1



Circuit 2



Circuit 3



Applications

- Digital equipment
- Personal computers and peripherals
- Measuring instruments
- Medical equipment
- Wireless communications equipment
- Equipment requiring very high noise attenuation

Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Circuit Diagram	Figure	Temperature Rise (Max.)
12-MMF-001-5-F	120/250VAC	1A	0.5mA	3	A	30°C
12-MMF-003-5-G		3A	5uA	1	B	
12-MMF-003-2-G		6A	0.5mA	2	C	
12-MMF-006-5-G		10A			D	
12-MMB-010-5-D		15A				
12-MMB-015-5-E		20A				
12-MMB-020-5-E		30A				
12-MMB-030-5-E						

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

Leakage current: 0.7 mA max.

Voltage drop: 1V max.

Discharge time: 0.4 sec. max.

Weight: 6.0 ounces (170 grams)

Power Line Filters | Dual Stage

12-MMF & 12-MMB Series

Figure A

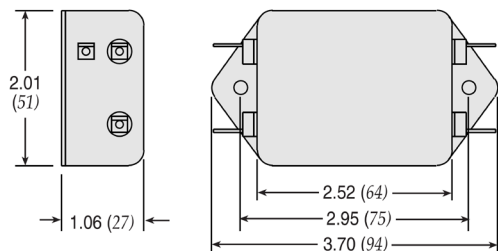


Figure B

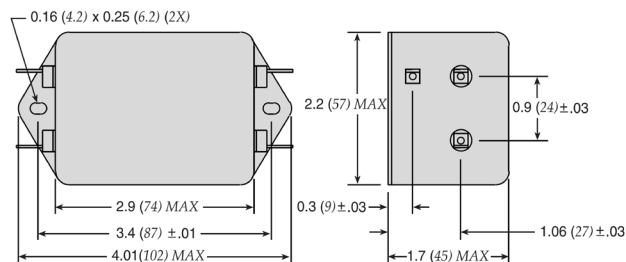


Figure C

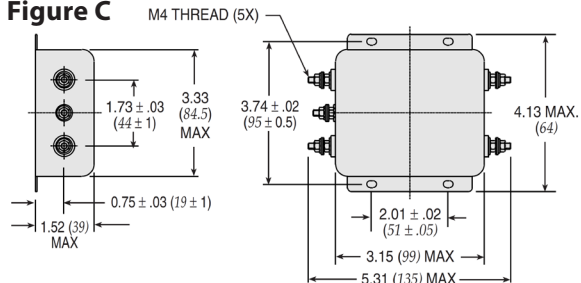
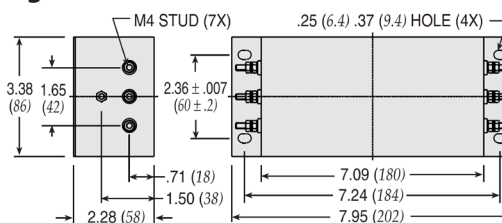
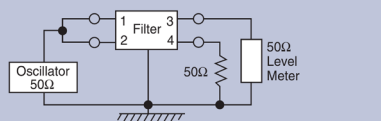


Figure D

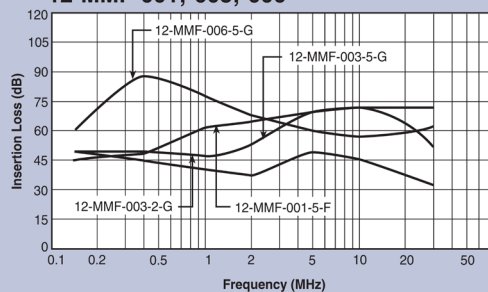


Dimensions in inches (mm)

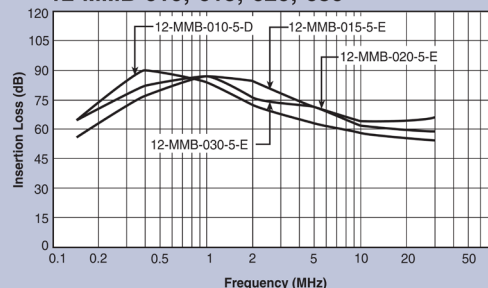
Common Mode



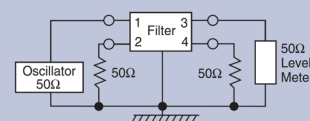
12-MMF-001;-003;-006



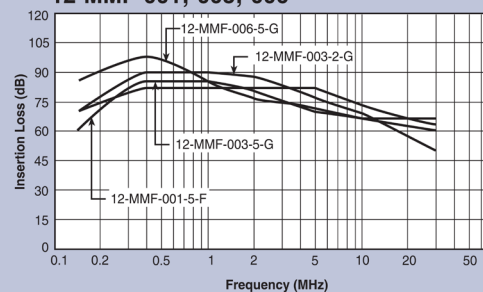
12-MMB-010;-015;-020;-030



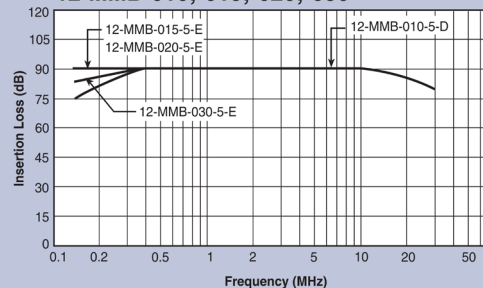
Normal Mode



12-MMF-001;-003;-006



12-MMB-010;-015;-020;-030



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Spectrum Control:

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