api technologies corp.
Spectrum Control

Miniature PCB Power Filters
MPC Series

Tested and found to be
IAW VDE 0565 Part 3

61-MPC Series

Rugged construction design enables parts to perform in industrial environments. The 61-MPC series is ideally suited for products that must conform to FCC part 15 regulations. Agency approvals: UL recognized, CSA certified, TUV approved (tested and found to be in accordance with VDE 0565 Part 30. Applications include:

- Personal computers and peripherals
- Measuring instruments
- Home appliances and vacuum cleaners
- Monitor and display units
- Switching power supplies
- Available lead free/RoHs compliant

11-MPC Series

Power filters are available in PCB mount, bolt-in, fast-on tab or solder lug. The 11-MPC series is ideally suited for products that have been limited board space and require a low cost alternative. Available in both metal and plastic cases. Applications include:

- Personal computers and peripherals
- Digital equipment
- Measuring instruments and medical equipment
- TV & VCR monitors and display units
- Available lead free/RoHs compliant

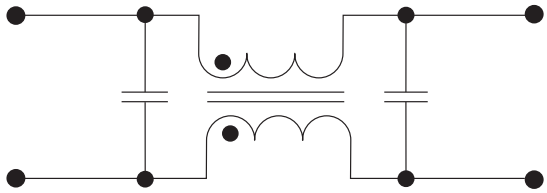
MPC-010/-015 Series

The compact design of the MPC-010 and -015 series power filters integrates a feed-through capacitor, multilayer ceramic capacitor and ferrite bead inductors. This series is ideally suited for dense PCB's and where both positive and negative lines have reduced EMI in one housing. Applications include:

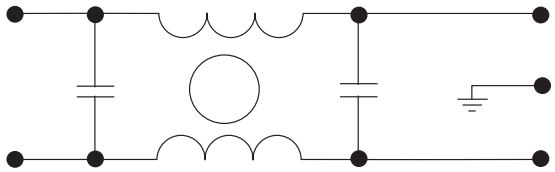
- DC power lines on industrial equipment
- Measuring instruments
- Home appliances and vacuum cleaners
- Monitor and display units
- Switching power supplies
- Available lead free/RoHs compliant

Circuit Diagrams

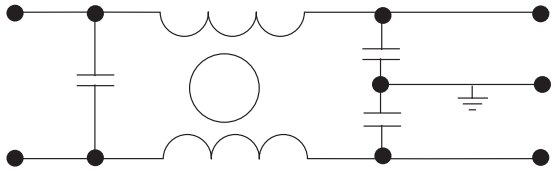
Circuit 1



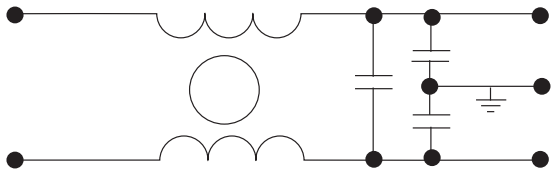
Circuit 2



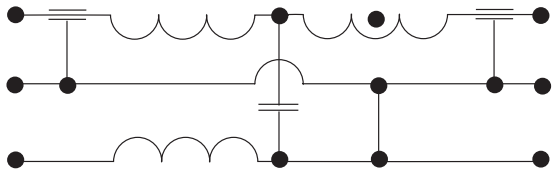
Circuit 3



Circuit 4



Circuit 5



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Miniature PCB Power Filters

MPC Series

Specifications

Model	Rated Voltage (@ 50/60Hz)	Rated Current	Leakage Current (Max.)	Inductance (L_1)	Temperature Rise (Max.)	Circuit Diagram	Figure
61-MPC-010-1-11	250VAC	1A	0.1mA	11mH	40˚C	1	A
61-MPC-016-1-11		1.6A		6.0mH			
61-MPC-025-1-11		2.5A		2.4mH			
61-MPC-036-1-11		3.6A		1.2mH			
11-MPC-001-2-B	120/250VAC	1A	5uA	———	30°C	2	C
11-MPC-001-5-A			0.50mA			3	B
11-MPC-001-5-B							C
11-MPC-002-5-B		2A				4	E
11-MPC-002-5-D							F
11-MPC-003-5-E		3A				3	C
11-MPC-006-5-B		6A					D
11-MPC-006-5-C						4	C
11-MPC-016-5-B		16A	0.2mA				
MPC-010-050	50 VDC	10A	———	———	———	5	G
MPC-010-250	250 VDC						
MPC-015-050	50VDC	15A					

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

Figure A

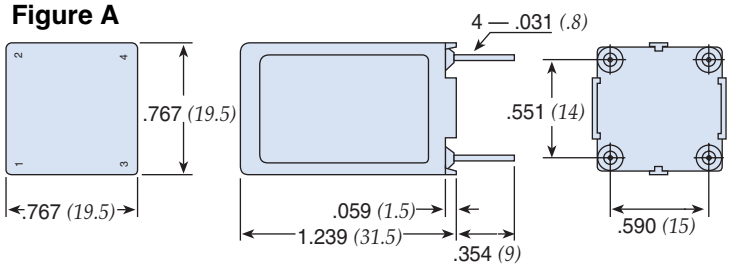


Figure B

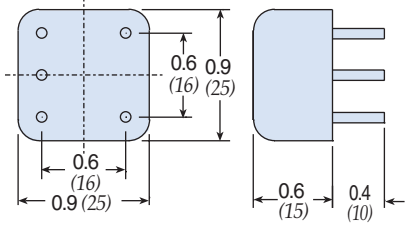


Figure C

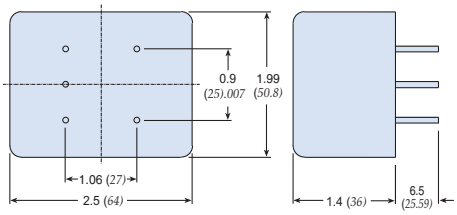
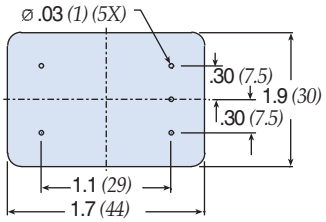


Figure D



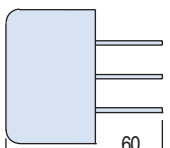


Figure E

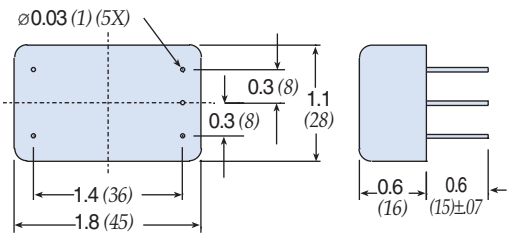


Figure F

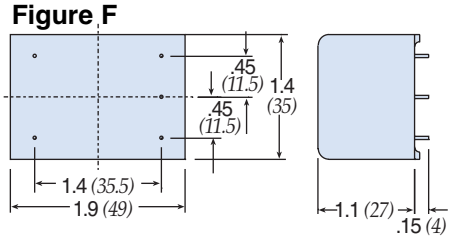
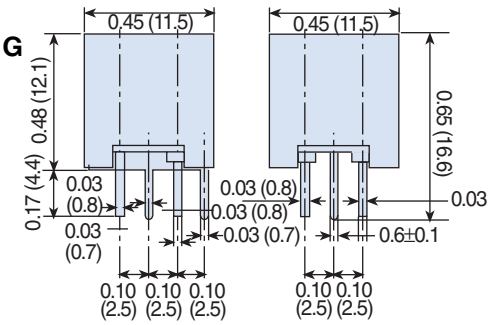


Figure G



Dimensions in inches *(mm)*

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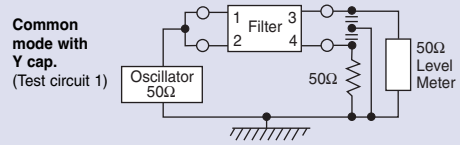
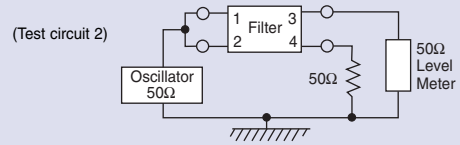
Miniature PCB Power Filters

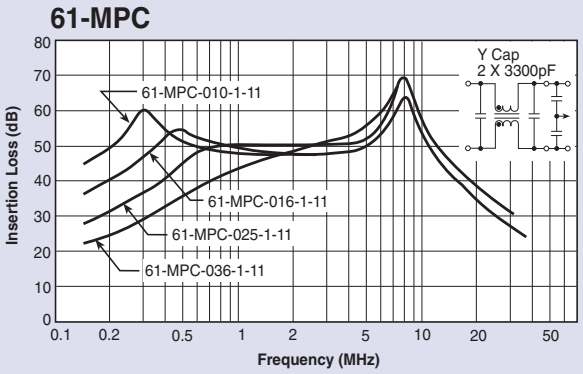
MPC Series

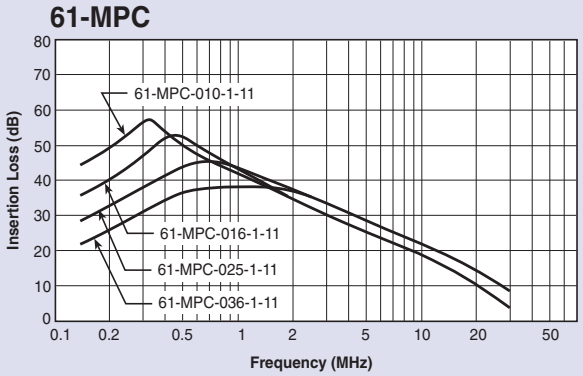
61-MPC Series

Common Mode

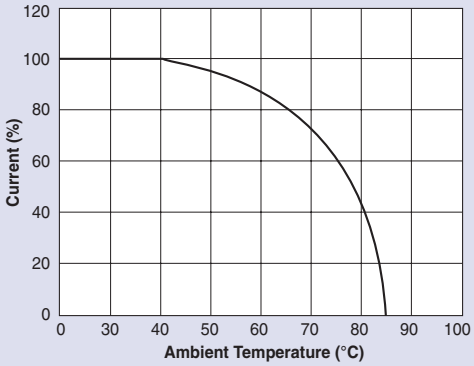




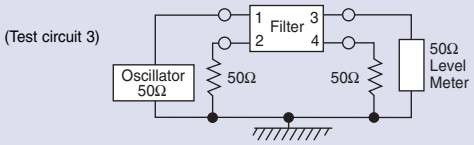


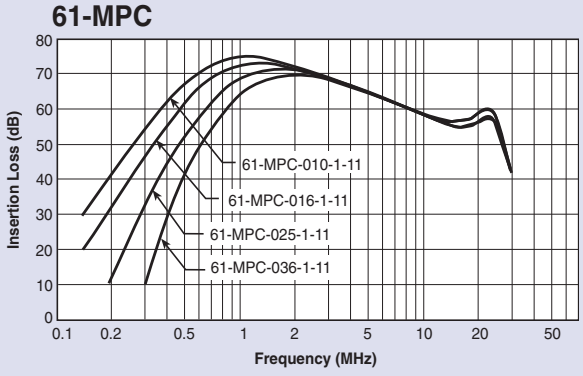


Temperature Characteristics



Normal Mode



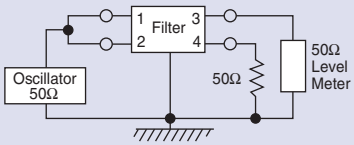


Miniature PCB Power Filters

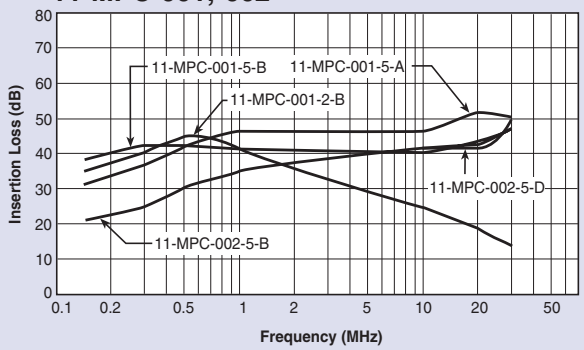
MPC Series

11-MPC Series

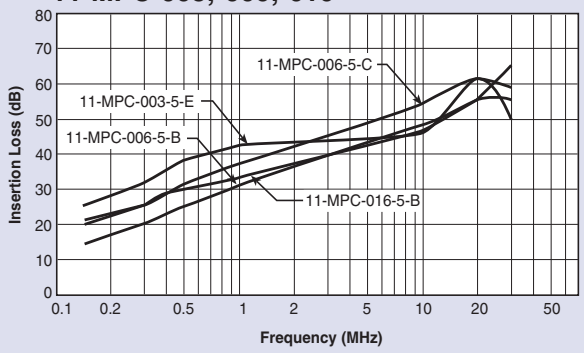
Common Mode



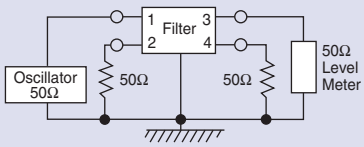
11-MPC-001;-002



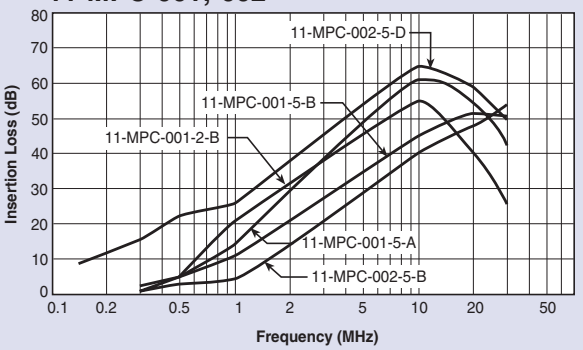
11-MPC-003;-006;-016



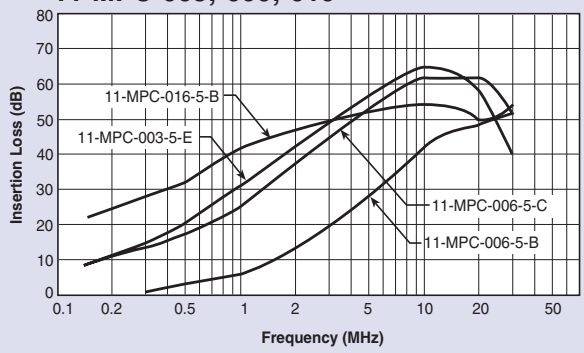
Normal Mode



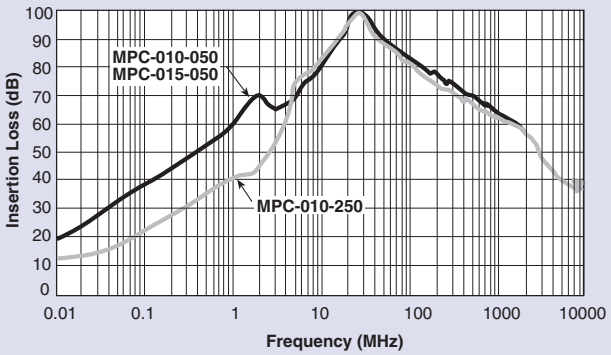
11-MPC-001;-002



11-MPC-003;-006;-016



MPC-010 & 015 Series



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- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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Email: org@lifeelectronics.ru

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