

## 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

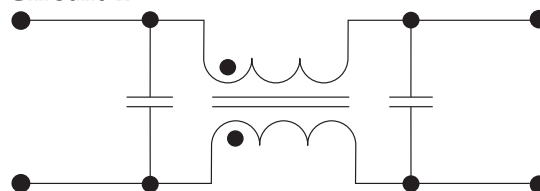
The compact design of the MPC-010 and -015 series power filters integrates a feed-through capacitor, multilayer ceramic capacitor and ferrite bead inductors. This series is ideally suited for dense PCB's and where both positive and negative lines have reduced EMI in one housing. Applications include:

- 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

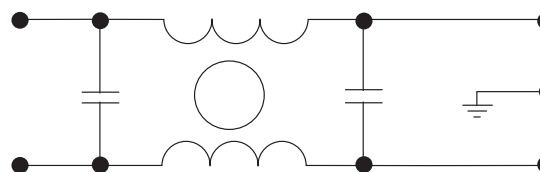


## Circuit Diagrams

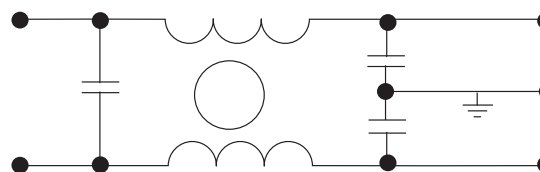
**Circuit 1**



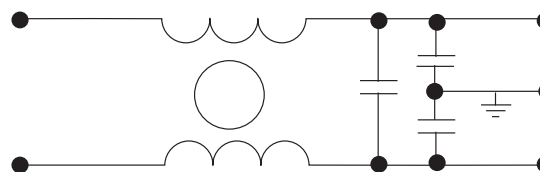
**Circuit 2**



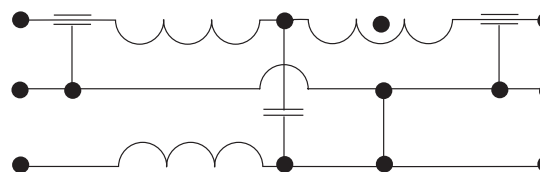
**Circuit 3**



**Circuit 4**



**Circuit 5**



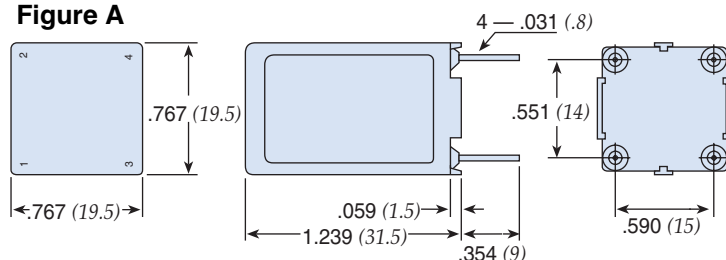
## Miniature PCB Power Filters MPC Series

### Specifications

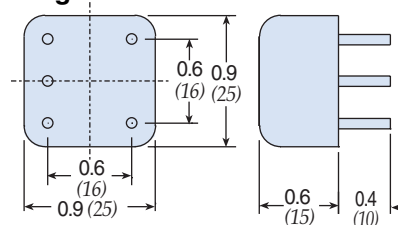
| Model           | Rated Voltage<br>(@ 50/60Hz) | Rated Current | Leakage Current<br>(Max.) | Inductance<br>(L <sub>1</sub> ) | Temperature<br>Rise (Max.) | Circuit<br>Diagram | Figure |
|-----------------|------------------------------|---------------|---------------------------|---------------------------------|----------------------------|--------------------|--------|
| 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  |                              |               |                           |                                 |                            |                    | D      |
| 11-MPC-006-5-C  |                              | 6A            | 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                        |               |                           |                                 |                            |                    |        |

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

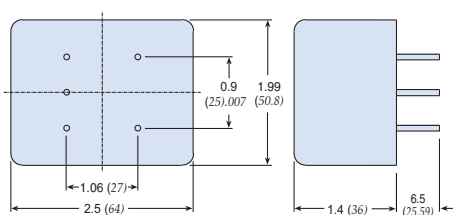
**Figure A**



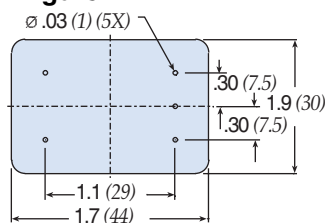
**Figure B**



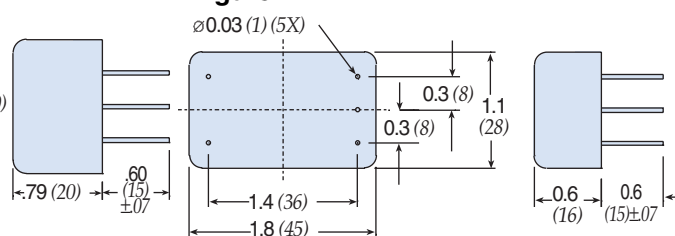
**Figure C**



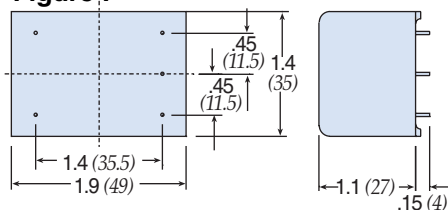
**Figure D**



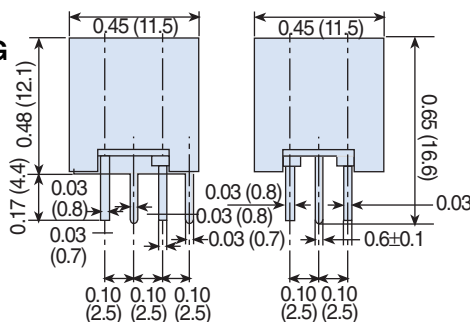
**Figure E**



**Figure F**



**Figure G**

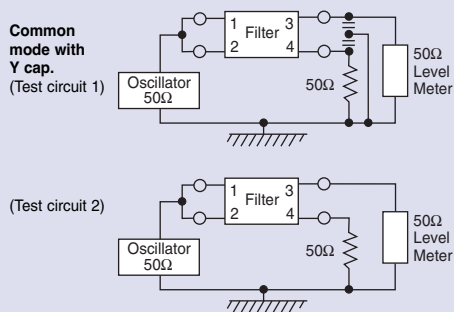


Dimensions in inches (mm)

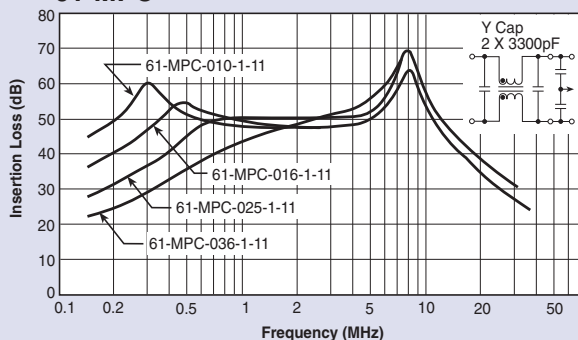
## Miniature PCB Power Filters MPC Series

### 61-MPC Series

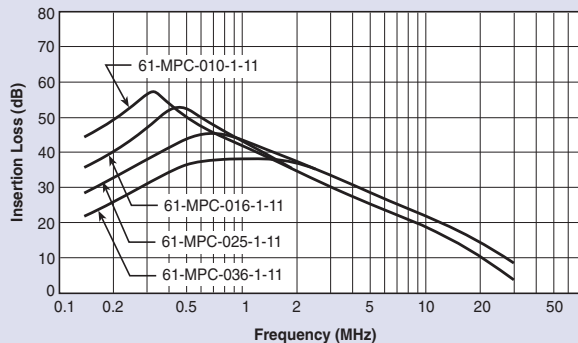
#### Common Mode



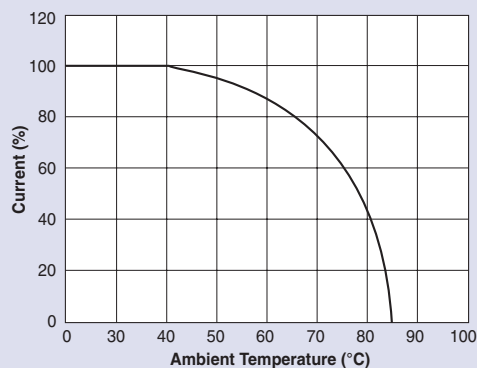
#### 61-MPC



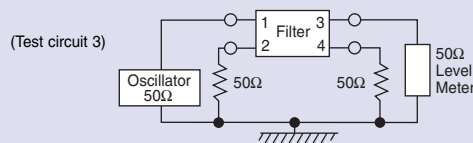
#### 61-MPC



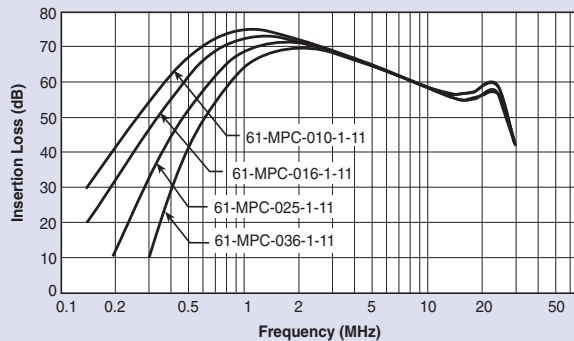
#### Temperature Characteristics



#### Normal Mode



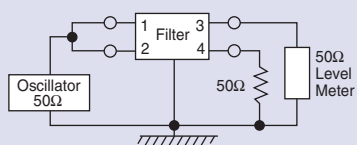
#### 61-MPC



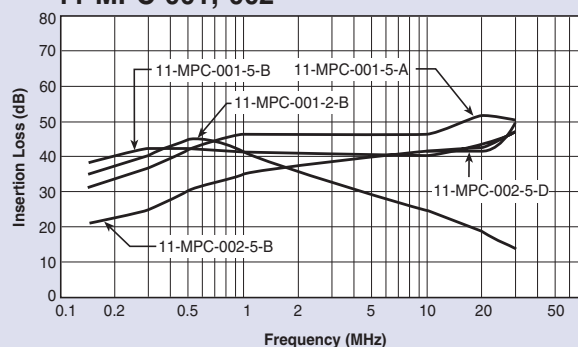
## Miniature PCB Power Filters MPC Series

### 11-MPC Series

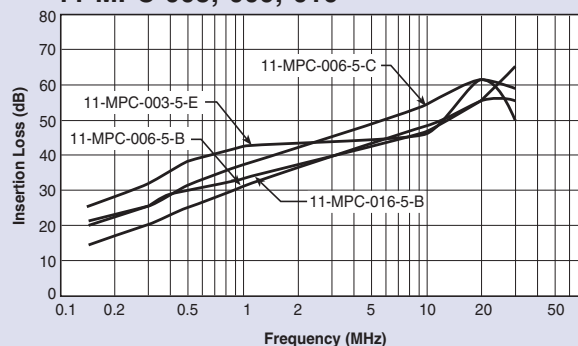
#### Common Mode



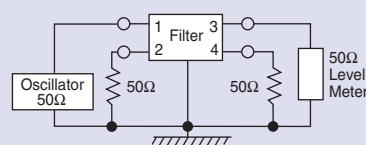
##### 11-MPC-001;-002



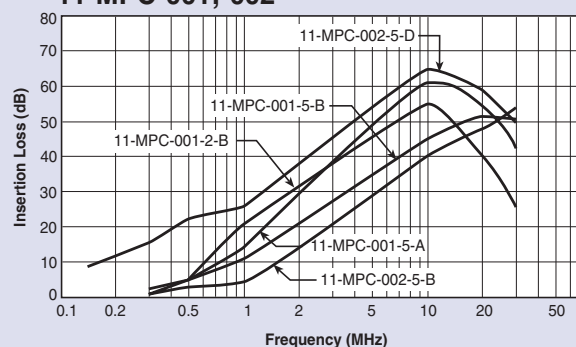
##### 11-MPC-003;-006;-016



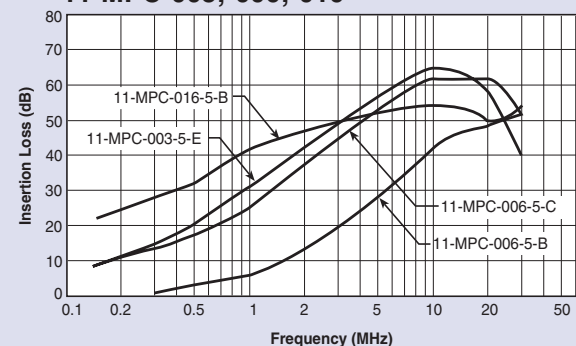
#### Normal Mode



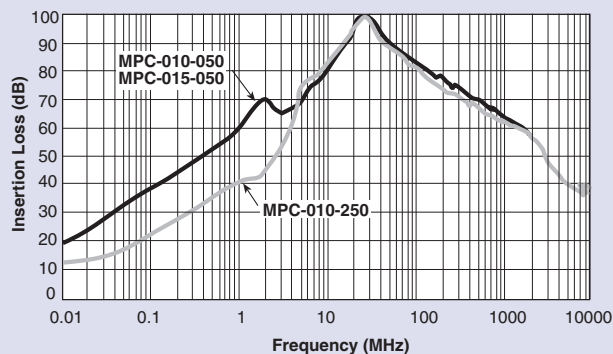
##### 11-MPC-001;-002



##### 11-MPC-003;-006;-016



### MPC-010 & 015 Series



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9