

## 6A to 30A, 250VAC EMI Filters

### Features

- ◆ Easy Connection and Installation
- ◆ Captive screws accepting ring tag terminals
- ◆ Chassis or DIN Rail mount
- ◆ Safety Agency Approved, RoHS Compliant
- ◆ MA series (single stage) Low frequency attenuation
- ◆ MX series (two stage) Wide band attenuation



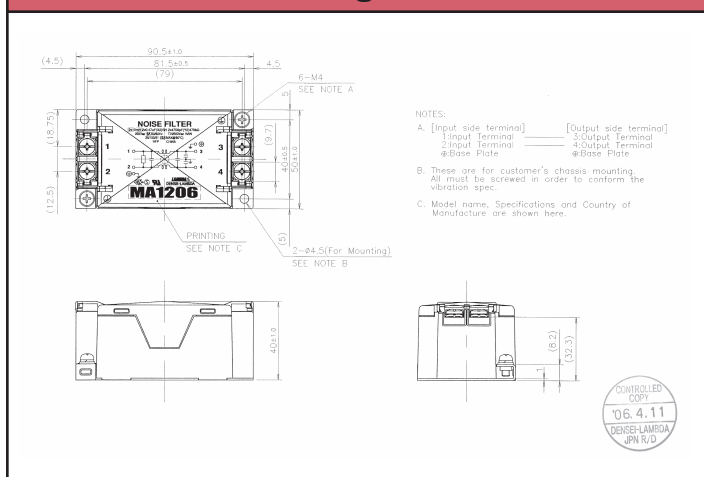
**Last time buy - June 1, 2014**

### Specifications

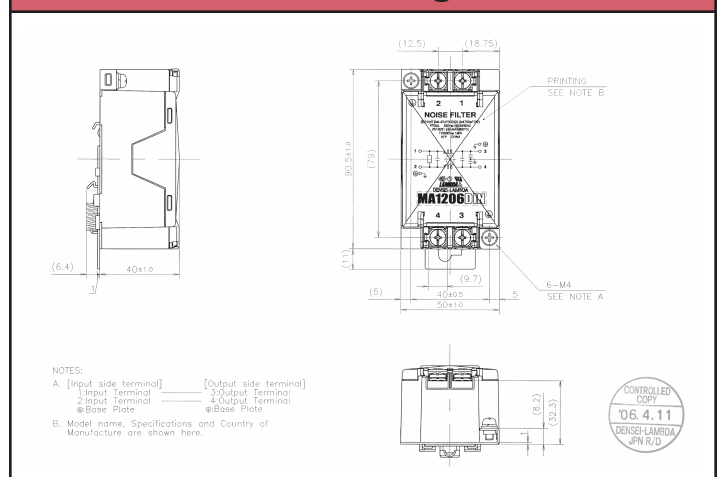
| Model                            |    | MA1206<br>MX1206                                                                                       | MA1210<br>MX1210 | MA1216<br>MX1216 | MA1220<br>MX1220 | MA1230<br>MX1230 |
|----------------------------------|----|--------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|------------------|
| Rated Current                    | A  | 6A                                                                                                     | 10A              | 16A              | 20A              | 30A              |
| Rated Voltage                    | V  | 250VAC or VDC                                                                                          |                  |                  |                  |                  |
| Test Voltage (For 1 min.)        | V  | Terminals to Case: 2500VAC at 25C, 70% RH                                                              |                  |                  |                  |                  |
| Isolation Resistance             | MΩ | 100MΩ minimum at 70% RH (terminals to case, 500VDC)                                                    |                  |                  |                  |                  |
| Leakage Current                  | mA | 1mA max at 250VAC 60Hz                                                                                 |                  |                  |                  |                  |
| DC Resistance (both lines) MA/MX | mΩ | 120/130                                                                                                | 50/65            | 20/20            | 14/14            | 6/7              |
| Temperature Rise                 | °C | 30°C Maximum                                                                                           |                  |                  |                  |                  |
| Operating Temperature            | °C | -40 to +85°C (see derating curve)                                                                      |                  |                  |                  |                  |
| Storage Temperature              | °C | -40 to +85                                                                                             |                  |                  |                  |                  |
| Operating Humidity               | -  | 30 to 95% RH (non condensing)                                                                          |                  |                  |                  |                  |
| Storage Humidity                 | -  | 10 to 95% RH (non condensing)                                                                          |                  |                  |                  |                  |
| Vibration (non operating)        | -  | 10-55-10Hz sweep for 1 min. Amplitude 1.5mm constant (max 88.3m/s <sup>2</sup> , X, Y, Z 2 hours each) |                  |                  |                  |                  |
| Safety Standards                 | -  | Approved by UL1283, CSA Std C22.2 No.8 (CUL)(1), EN60939 (SEMKO)                                       |                  |                  |                  |                  |
| Size WxLxH                       | mm | 50 x 90.5 x 40 (50 x 101.5 x 46.4 with DIN Rail mounting clip)                                         |                  |                  |                  |                  |
| Weight (Typ)                     | g  | 280 (290 for DIN Rail mount versions)                                                                  |                  |                  |                  |                  |
| Warranty                         | -  | 1 Year                                                                                                 |                  |                  |                  |                  |

(1) MX12 only

### MA Outline Drawing



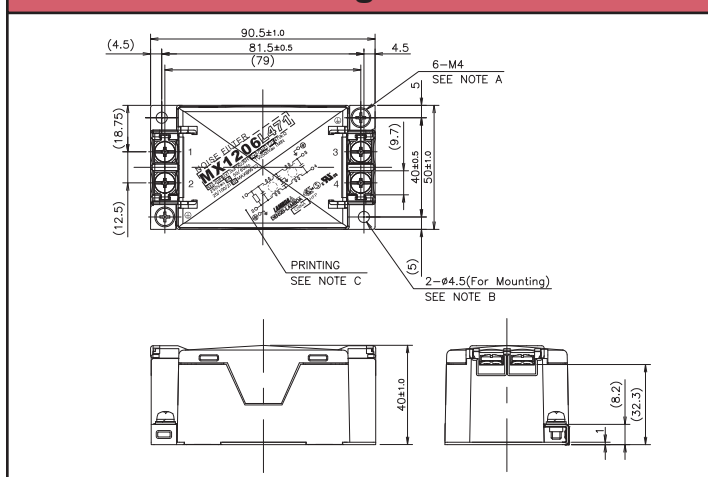
### MA DIN Outline Drawing



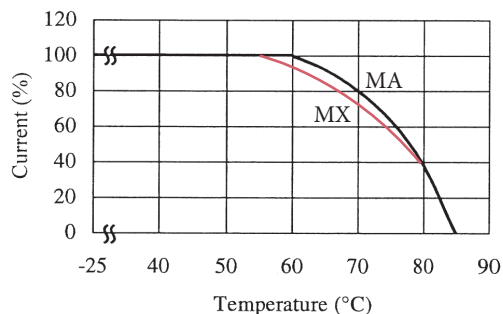
## Model Selector

| Model     | Current Rating | Leakage Current (250VAC 60Hz) | Attenuation Characteristic   | Mounting |
|-----------|----------------|-------------------------------|------------------------------|----------|
| MA1206    | 6A             |                               | Low Frequency (150 - 500kHz) | Chassis  |
| MA1206DIN | 6A             |                               | Low Frequency (150 - 500kHz) | DIN Rail |
| MX1206    | 6A             |                               | Wide band (150kHz - 30MHz)   | Chassis  |
| MX1206DIN | 6A             |                               | Wide band (150kHz - 30MHz)   | DIN Rail |
| MA1210    | 10A            |                               | Low Frequency (150 - 500kHz) | Chassis  |
| MA1210DIN | 10A            |                               | Low Frequency (150 - 500kHz) | DIN Rail |
| MX1210    | 10A            |                               | Wide band (150kHz - 30MHz)   | Chassis  |
| MX1210DIN | 10A            |                               | Wide band (150kHz - 30MHz)   | DIN Rail |
| MA1216    | 16A            |                               | Low Frequency (150 - 500kHz) | Chassis  |
| MA1216DIN | 16A            |                               | Low Frequency (150 - 500kHz) | DIN Rail |
| MX1216    | 16A            |                               | Wide band (150kHz - 30MHz)   | Chassis  |
| MX1216DIN | 16A            |                               | Wide band (150kHz - 30MHz)   | DIN Rail |
| MA1220    | 20A            |                               | Low Frequency (150 - 500kHz) | Chassis  |
| MA1220DIN | 20A            |                               | Low Frequency (150 - 500kHz) | DIN Rail |
| MX1220    | 20A            |                               | Wide band (150kHz - 30MHz)   | Chassis  |
| MX1220DIN | 20A            |                               | Wide band (150kHz - 30MHz)   | DIN Rail |
| MA1230    | 30A            |                               | Low Frequency (150 - 500kHz) | Chassis  |
| MA1230DIN | 30A            |                               | Low Frequency (150 - 500kHz) | DIN Rail |
| MX1230    | 30A            |                               | Wide band (150kHz - 30MHz)   | Chassis  |
| MX1230DIN | 30A            |                               | Wide band (150kHz - 30MHz)   | DIN Rail |

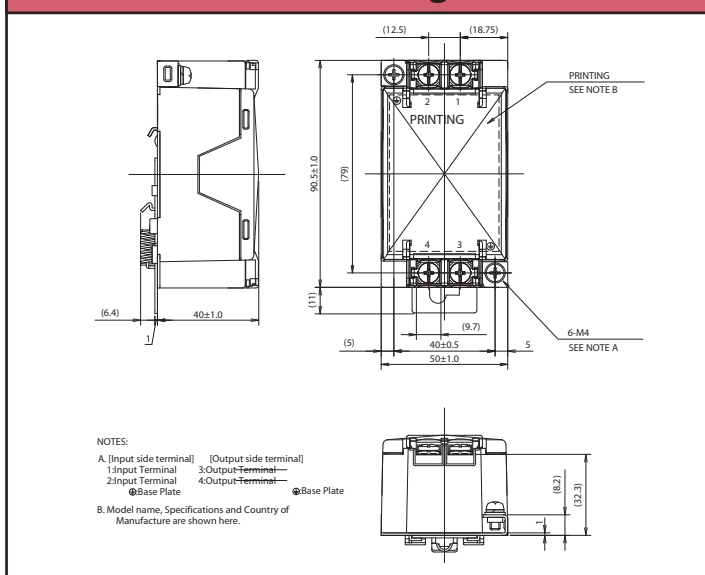
## MX Outline Drawing



## Derating



## MX DIN Outline Drawing



## Other Filter Solutions

|      |                                       |
|------|---------------------------------------|
| MAW  | 0.5 - 5A, 250VAC filters (wire ended) |
| MC13 | 6 - 30A, 500VAC 3 phase filters       |
| MX13 | 30 - 150A, 3 phase filters            |
| MBS  | 30 & 50A, 75VDC filters               |
| PAN  | 20A, 75VDC filters (pcb mount)        |

For Additional Information, please visit [us.tdk-lambda.com/lp/products/ma-mx12-series.htm](http://us.tdk-lambda.com/lp/products/ma-mx12-series.htm)



Last time buy - June 1, 2014

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