MBW SERIES

EMI Filters 1A - 5A 250VAC

Features

- Attenuates conductive noise from switching power supplies
- Panel mount case shield
- Attenuation against High Voltage Pulse Noise
- Leakage current 1mA at 250VAC
- Safety approvals
- Attentuation 150kHz - 30MHz
- Suitable for a wide range of OEM equipment that needs to confirm to international EMI standards
- Visit our website for Attenuation graphs

	MBW-1201-22	MBW-1202-22	MBW-1203-22	MBW-1205-22
Rated Current	1A	2A	3A	5A
Rated Voltage	250VAC OR DC			
Test Voltage (Terminals - Case 1 min)	2500VAC			
Isolation Voltage	500VDC			
Leakage Current	0.5A @ 125VAC 60Hz 1mA @ 250VAC 60Hz			
Temperature Rise	30°C			
Operating Temperature	-25°C to +60°C at 100% rating, (derate to 40% at 80°C)			
Safety	UL1283, EN133200			
Size - Chassis	50 x 50 x 22mm	50 x 50 x 22mm	46 x 56 x 30mm	60 x 62 x 35mm
Cable Length	300mm			
Weight	95g	95g	160g	290g

PBW SERIES

EMI Filters 1A - 5A 250VAC

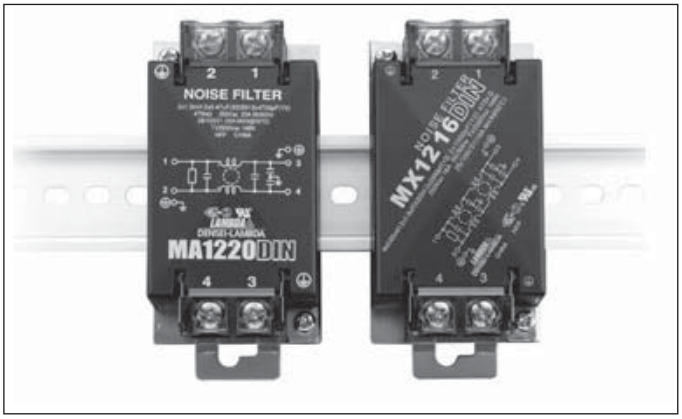
Features

- Attenuates conductive noise from switching power supplies
- Leakage current 1mA max at 250VAC
- Attenuation against High Voltage Pulse Noise
- Safety approvals
- Panel mount plastic case
- Attentuation 150kHz - 30MHz
- Suitable for a wide range of OEM equipment that needs to confirm to international EMI standards
- Visit our website for Attenuation graphs

	PBW-1201-33	PBW-1202-33	PBW-1203-33	PBW-1206-33
Rated Current	1A	2A	3A	6A
Rated Voltage	250VAC or DC			
Test Voltage (Terminals - Case 1 min)	1500VAC			
Isolation Voltage	500VDC			
Leakage Current	0.35A @ 125VAC, 0.75mA @ 250VAC 60Hz			
Temperature Rise	30°C			
Operating Temperature	-25°C to +60°C at 100% rating, (derate to 40% at 80°C)			
Safety	UL1283, EN133200			
Size - Chassis	40 x 46 x 20mm			
Cable Length	300mm			
Weight	60g			

MA/MX12 SERIES

EMI Filters 6A - 30A 250VAC



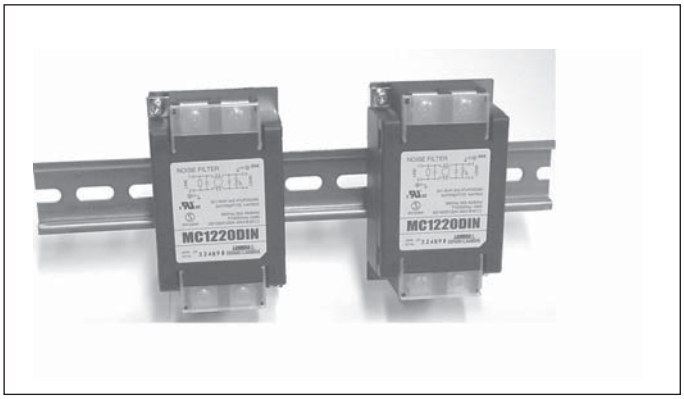
Features

- Easy connection and installation
- Captive screws accepting ring tag terminals
- Chassis or DIN Rail mount style
- Safety approvals
- **MA** series (single stage) Low Frequency attenuation)
- **MX** series (two stage) Wide Band attenuation
- **MA** xxxx - **DIN** (Din Rail models)
- **MX** xxxx - **DIN** (Din Rail models)
- Visit our website for Attenuation graphs

MA Low Frequency (150 - 500kHz) **MX** Wide Band Frequency (150kHz - 30MHz)	**MA1206** **MX1206**	**MA1210** **MX1210**	**MA1216** **MX1216**	**MA1220** **MX1220**	**MA1230** **MX1230**
Rated Current	6A	10A	16A	20A	30A
Rated Voltage	250VAC or DC				
Test Voltage (Terminals - Case 1 min)	2500VAC				
Isolation Voltage	500VDC				
Leakage Current	1mA @ 250VAC				
Temperature Rise	30°C				
Operating Temperature	-40°C to +60°C at 100% rating, (derate to 40% at 80°C)				
Safety	EN60939, UL1283				
Size - Chassis	50 x 91 x 40mm				
Size - Din Rail	50 x 102 x 47mm				
Weight	290g				

MC/MZ12 SERIES

EMI Filters 6A - 30A 250VAC



Features

- Low Leakage Current option: add "**L**" to model
- Easy connection and installation
- Captive screws accepting ring tag terminals
- Chassis or DIN Rail mount style
- Safety approvals
- **MC** series (High Attenuation in low frequency)
- **MZ** series (High Attenuation against high voltage pulses)
- **MC** xxxx - **DIN** (Din Rail models)
- **MZ** xxxx - **DIN** (Din Rail models)
- Visit our website for Attenuation graphs

MC High Attenuation in low frequency **MZ** High Attenuation against high voltage pulses	**MC1206** **MZ1206**	**MC1210** **MZ1210**	**MC1216** **MZ1216**	**MC1220** **MZ1220**	**MC1230** **MZ1230**
Rated Current	6A	10A	16A	20A	30A
Rated Voltage	250VAC or DC				
Test Voltage (Terminals - Case 1 min)	2500VAC				
Isolation Voltage	500VDC				
Leakage Current	MC/MZ: 1mA @ 250VAC MC - L/MZ - L: 10μA @ 250VAC				
Low leakage option/models					
Temperature Rise	30°C				
Operating Temperature	-25°C to +60°C at 100% rating, (derate to 40% at 80°C)				
Safety	EN133200, UL1283				
Size - Chassis	97 x 50 x 35mm				
Size - Din Rail	108 x 50 x 35mm				
Weight	300g				

MBS SERIES

EMI Filters 5A - 30A 250VAC

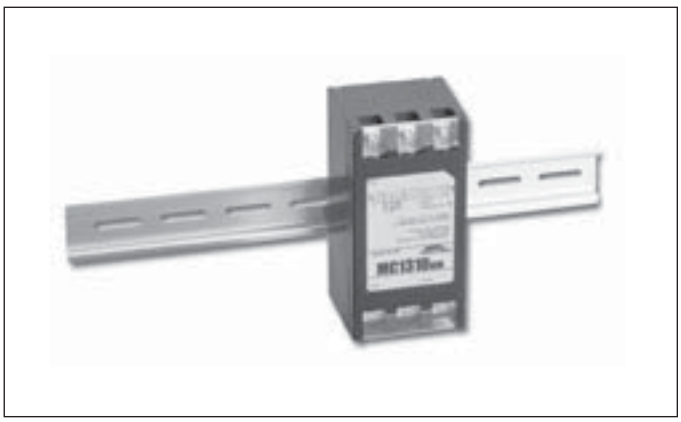
Features

- Metal case - high shielding
- Stud terminal connections
- Attenuation against high voltage pulse noise
- Attenuates conductive emission noise from switching power supplies
- Leakage current 1mA at 250VAC
- Safety approvals
- Two stage filtering
- Visit our website for Attenuation graphs

	MBS1205-22	MBS1210-22	MBS1215-22	MBS1220-22	MBS1230-22
Rated Current	5A	10A	15A	20A	30A
Rated Voltage	250VAC or DC				
Test Voltage (Terminals - Case 1 min)	2500VAC				
Isolation Voltage	500VDC				
Leakage Current	0.5A @ 125VAC 60Hz, 1mA @ 250VAC 60Hz				
Temperature Rise	30°C				
Operating Temperature	-40°C to +60°C at 100% rating, (derate to 40% at 80°C)				
Safety	EN60939, UL1283				
Size - Chassis (Includes Terminals)	70 x 96 x 40mm	70 x 96 x 40mm	65 x 139 x 40mm	65 x 139 x 40mm	70 x 197 x 50mm
Weight	310g	310g	550g	550g	1100g

MC13 SERIES

EMI Filters 6A - 30A 500VAC 3Phase



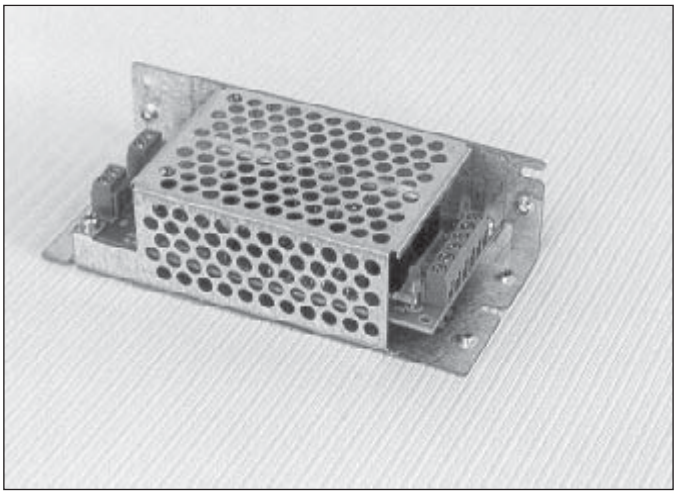
Features

- 3Phase 500VAC input
- Four ratings: 6 to 30A
- High Attentuation dB, in inverter/ motor applications
- Captive screws accepting ring tag terminals
- Chassis or DIN Rail mounting style
- **MC13xx - DIN** (DIN Rail option)
- Safety approvals
- Visit our website for Attenuation graphs

	MC1306	MC1310	MC1320	MC1330
Rated Current	6A	10A	20A	30A
Rated Voltage	500VAC 3Phase 50/60Hz			
Test Voltage (Terminals - Case 1 min)	2000VAC			
Isolation Voltage	500VDC			
Leakage Current	5mA @ 500VAC			
Temperature Rise	30°C			
Operating Temperature	-25°C to +60°C at 100% rating, (derate to 40% at 80°C)			
Safety	EN133200, UL1283			
Size - Chassis	145 x 63 x 52mm			
Size - Din Rail	126 x 63 x 52mm			
Weight	600g			

P/S ALARM CARD

Alarm Card: 12V/24V/48V



Description

The **P/S Alarm Card** was developed to provide an off-the-shelf solution for monitoring 12, 24 and 48 VDC power supply systems.

It will accept two input DC supplies and will provide two alarms which can be set between 10V - 32V or 20V - 60V to monitor an under voltage or DC fail condition of a DC supply.

The two alarms are available for external signalling via two relays with change-over contacts. COM. NO. NC.

Two LED's are also available and are used for visual indication of DC supply status.

Typical applications include the monitoring of any DC power supply, in particular the monitoring of two power supplies that are connected in n+1 redundancy (via external diodes).

It can also be used in battery back-up systems, with alarm **A** for example used to monitor the float voltage of the system and alarm **B** used to monitor a low level, such as battery low condition.

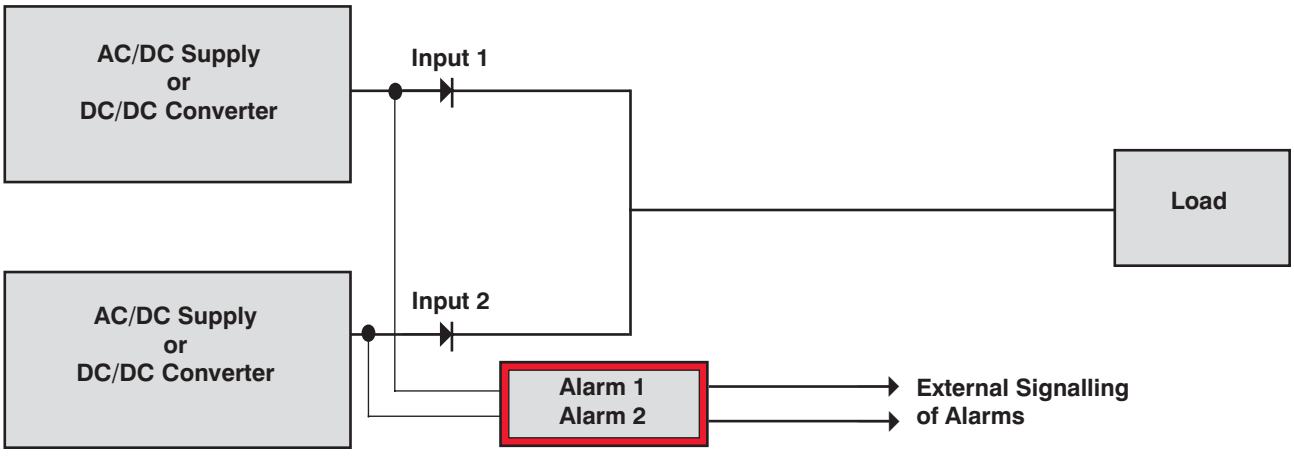
Features

- DC input options: 12V, 24V and 48V
- Two alarms with LED
- Alarms available via relay change over contacts
- Each alarm can be set to monitor any under voltage condition between 10 - 32V or 20 - 60V
  Model: **P/S-ALARM-12C** 10~32V
  Model: **P/S-ALARM** 20~60V
- Easy panel mount package with screw terminals or open frame card
- Suitable for a wide range of applications
- Case dimensions: 125 x 57 x 32mm
- Contact Rating: 30VDC 0.5A

Notes:

1. Connect the two DC inputs (+VE & -VE) to the respective alarm card input terminals.
2. Each alarm can be set to monitor an under voltage condition of the respective power supply.
3. Set the monitoring voltage 0.05V - 1.0V below the nominal voltage of the power supply.

Input 1 **+VE** **- VE**	**Alarms PCB**	**Alarms 1 & 2** **NC** **NO** **COM**
Input 2 **+VE** **- VE**		**NC** **NO** **COM**



Typical connection diagram with two power supplies connected for n + 1 redundancy