EMI/RFI POWER LINE FILTERS

PCB & CHASSIS MOUNT FILTERS

PLF SERIES

INTRODUCTION:
Adam Tech PLF Series is a complete range of Power Line Filters designed for use in electric equipment that needs to meet FCC and other worldwide agency requirements for EMI/RFI emissions. This series offers numerous termination styles and levels of filtering and circuit protection for specific applications. Included are chassis mount, chassis mount with IEC Power Connector, panel mount and power entry modules with integral fuse and or switch.

FEATURES:
Modules offer compact space and cost effectiveness
Meets low leakage requirements
Superior common mode and differential mode attenuation.

MATING CONNECTORS:
Adam Tech PC series power cords and all international IEC 60320 power supply cords.

SPECIFICATIONS:

Material:
Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze
Casing: Thermoplastic rated UL94V-0 or Copper Alloy, nickel plated

Terminal Plating:
Quick connect: Nickel over copper underplate
Solder terminals: Tin over copper underplate
PC Pins: Tin over copper underplate

Electrical:
Operation Voltage: 120 / 250V AC
Current Rating: UL & CSA: 15 Amps Max,
VDE: 10 Amps Max.
Insulation Resistance: 3000 MΩ Min.
Dielectric Withstanding Voltage: 1500V AC for 1 Minute
Leakage Current: 0.5mA Max 250V, 50Hz

Temperature Rating:
Operation Temperature: -25°C to +70°C

PACKAGING:
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:
UL Recognized File no. E244331



ORDERING INFORMATION

PLF — **3P4C**

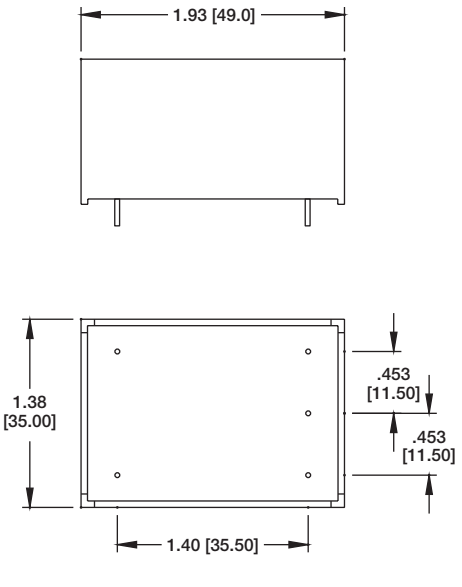
SERIES INDICATOR
PLF = EMI/RFI
Power Line Filter

BODY STYLE
3PC4 = Plastic Case PCB Mount
1PC = Metal Case PCB Mount
2PC = Metal Case PCB Mount
3PC = Metal Case PCB Mount
6PC = Metal Case PCB Mount
1D3 = Small Outline Chassis Mount
3D3 = Small Outline Chassis Mount
6D3 = Small Outline Chassis Mount
10D32 = Small Outline Chassis Mount
6D1 = Medium Outline Chassis Mount
10D1 = Medium Outline Chassis Mount
15D1 = Medium Outline Chassis Mount
3DZB21 = Screw In Chassis Mount
6DZB21 = Screw In Chassis Mount
10DZB21 = Screw In Chassis Mount
15DZB2 = Screw In Chassis Mount
1DZ2 = Inlet Socket with Flange Mounting
3DZ2 = Inlet Socket with Flange Mounting
6DZ2 = Inlet Socket with Flange Mounting
10DZ2 = Inlet Socket with Flange Mounting
1DZ2R = Fused Inlet Socket with Flange Mounting
3DZ2R = Fused Inlet Socket with Flange Mounting
6DZ2R = Fused Inlet Socket with Flange Mounting
10DZ2R = Fused Inlet Socket with Flange Mounting
1DZ2KR = Flanged Module with Fuse & Switch
3DZ2KR = Flanged Module with Fuse & Switch
6DZ2KR = Flanged Module with Fuse & Switch
10DZ2KR = Flanged Module with Fuse & Switch

EMI/RFI POWER LINE FILTERS

PLASTIC CASE PCB MOUNT

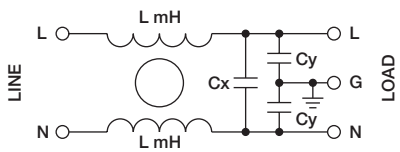
PLF SERIES





PLF-3PC4

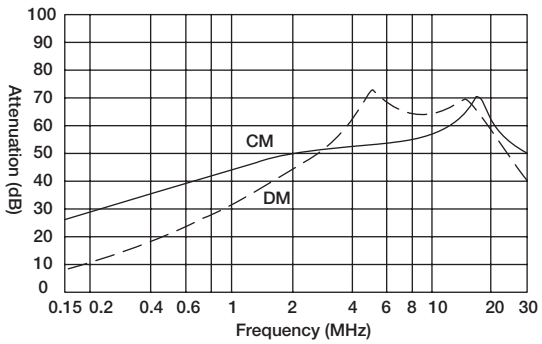
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-3PC4	250V AC	3 AMP	2.2 nF	0.5mA MAX.



CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

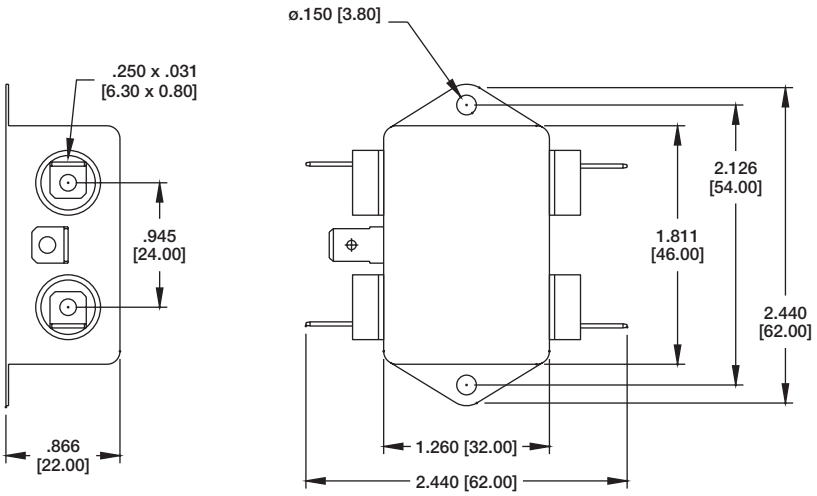
PLF-3PC4



EMI/RFI POWER LINE FILTERS

SMALL OUTLINE CHASSIS MOUNT

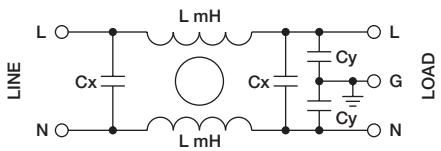
PLF SERIES





PLF-1D3

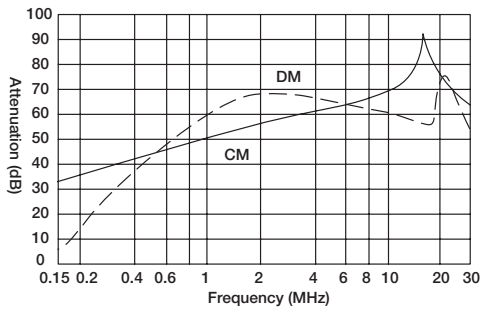
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1D3	250V AC	1 AMP	4.7 nF	0.5mA MAX.
PLF-3D3	250V AC	3 AMP	3.3 nF	0.5mA MAX.
PLF-6D3	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10D32	250V AC	10 AMP	2.2 nF	0.5mA MAX.



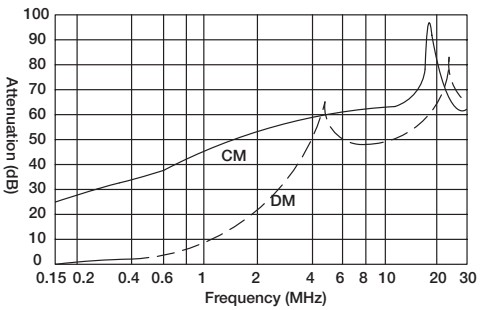
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

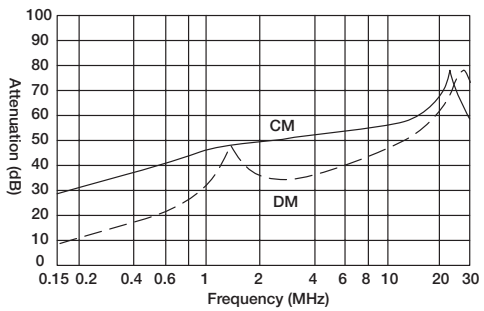
PLF-1D3



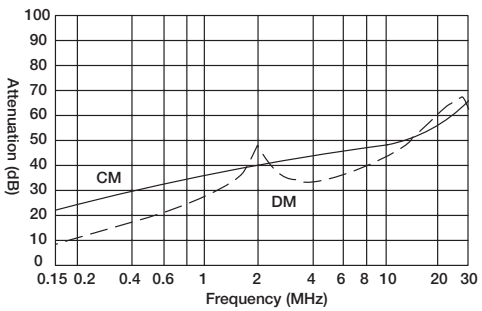
PLF-3D3



PLF-6D3



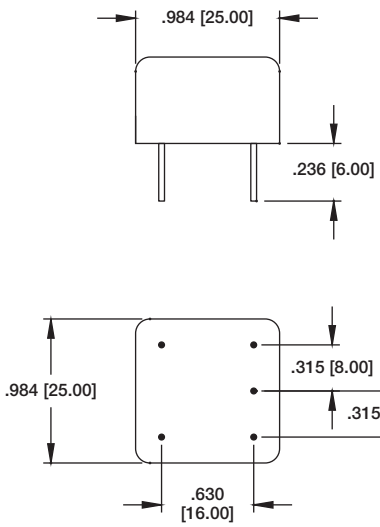
PLF-10D32



EMI/RFI POWER LINE FILTERS

METAL CASE PCB MOUNT

PLF SERIES

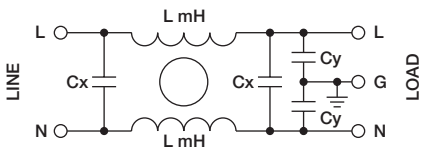




PLF-3PC

DIM "A"	
PLF-1PC	.590 [15.00]
PLF-2PC	.787 [20.00]
PLF-3PC	.787 [20.00]
PLF-6PC	.787 [20.00]

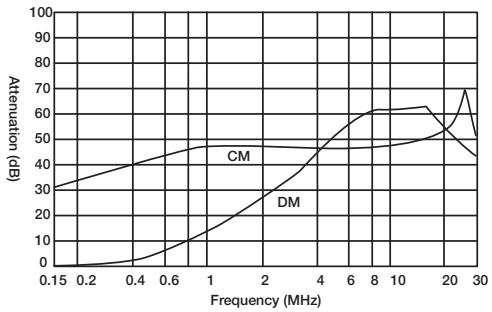
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1PC	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-2PC	250V AC	2 AMP	2.2 nF	0.5mA MAX.
PLF-3PC	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6PC	250V AC	6 AMP	3.3 nF	0.5mA MAX.



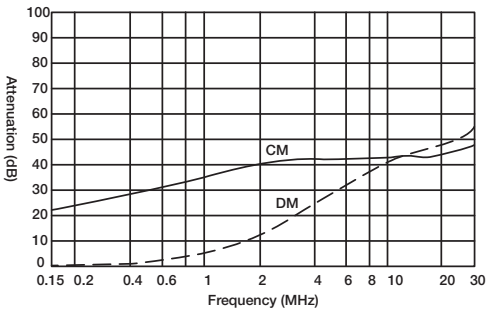
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

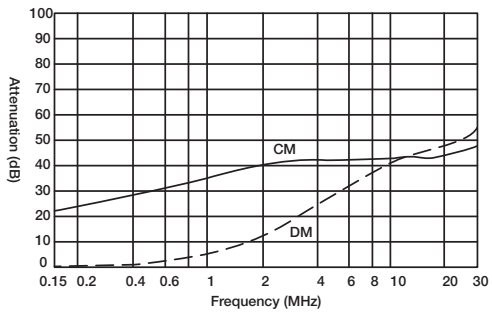
PLF-1PC



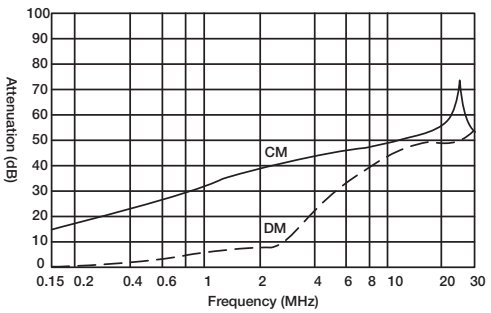
PLF-2PC



PLF-3PC



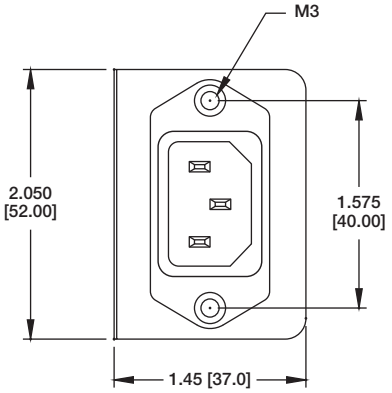
PLF-6PC

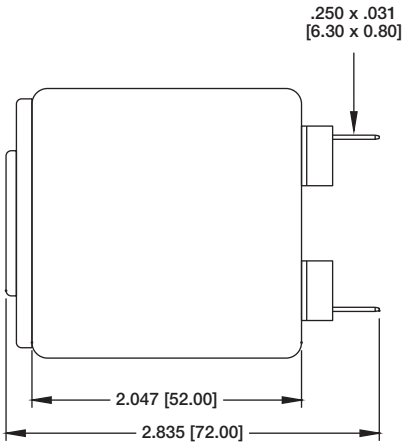


EMI/RFI POWER LINE FILTERS

SCREW IN CHASSIS MOUNT

PLF SERIES

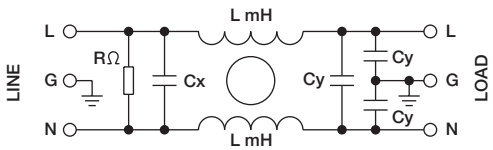






PLF-15DZB2

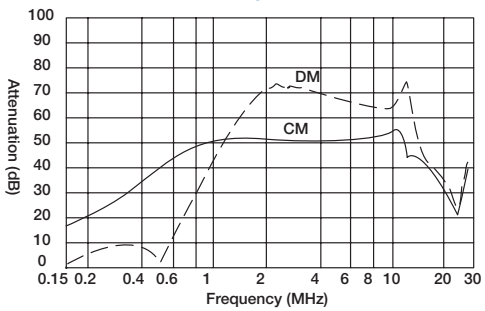
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-3DZB21	250V AC	3 AMP	4.7 nF	0.5mA MAX.
PLF-6DZB21	250V AC	6 AMP	4.7 nF	0.5mA MAX.
PLF-10DZB21	250V AC	10 AMP	3.3 nF	0.5mA MAX.
PLF-15DZB2	250V AC	15 AMP	3.3 nF	0.5mA MAX.



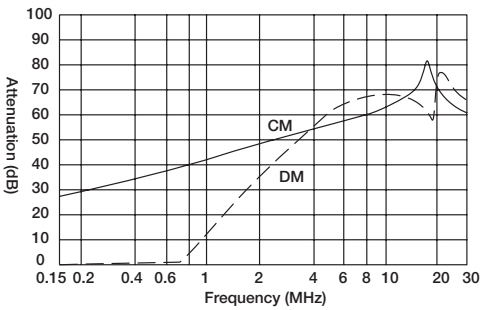
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No.

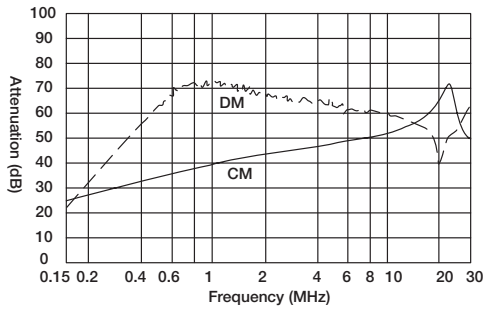
PLF-3DZB21



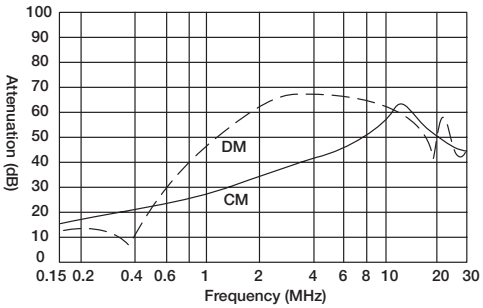
PLF-6DZB21



PLF-10DZB21



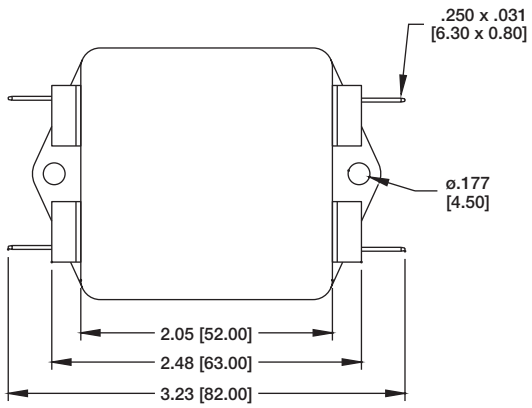
PLF-15DZB2

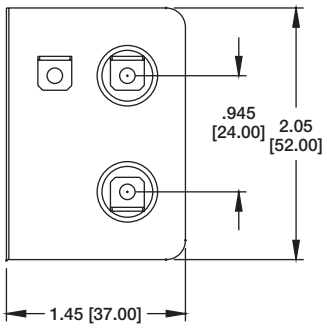


EMI/RFI POWER LINE FILTERS

MEDIUM OUTLINE CHASSIS MOUNT

PLF SERIES

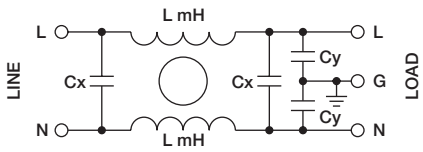






PLF-10D1

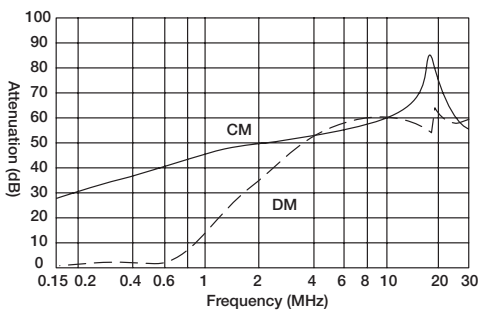
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-6D1	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10D1	250V AC	10 AMP	3.3 nF	0.5mA MAX.
PLF-15D1	250V AC	15 AMP	3.3 nF	0.5mA MAX.



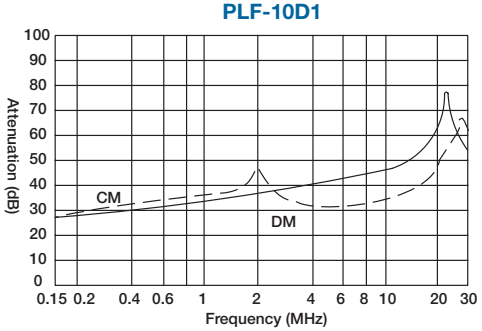
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

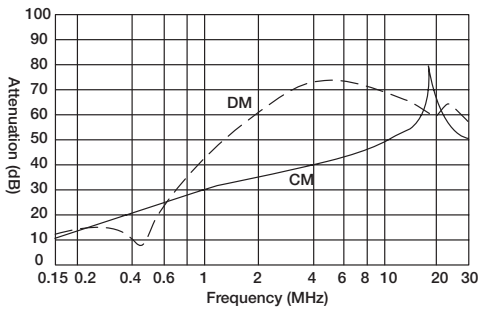
PLF-6D1



PLF-10D1



PLF-15D1



EMI/RFI POWER LINE FILTERS

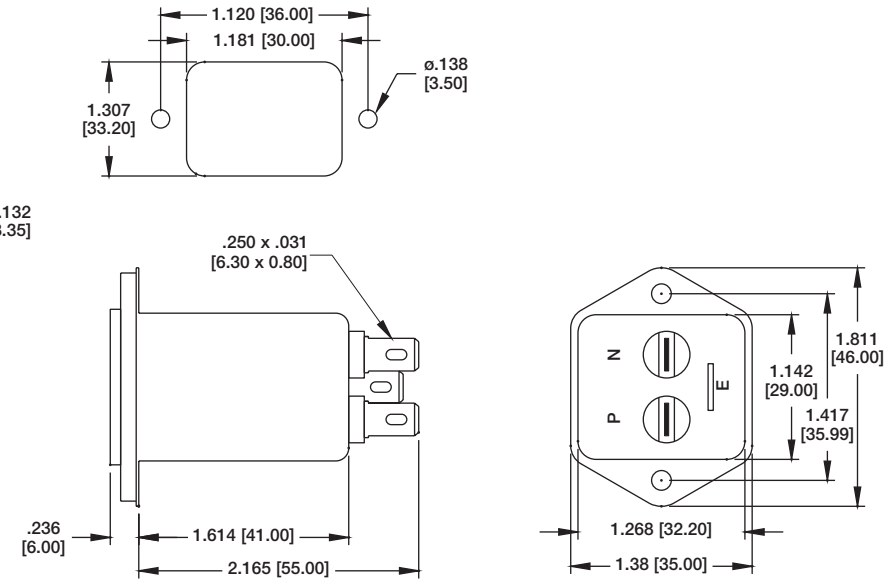
FUSED INLET SOCKET WITH FLANGE MOUNTING

PLF SERIES

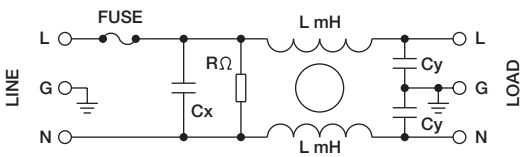


PLF-10DZ2R

Recommended Panel Cut-Out



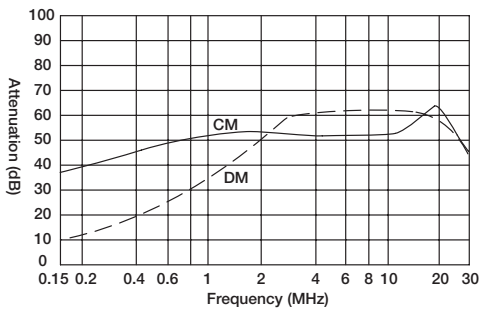
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2R	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2R	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6DZ2R	250V AC	6 AMP	2.2 nF	0.5mA MAX.
PLF-10DZ2R	250V AC	10 AMP	2.2 nF	0.5mA MAX.



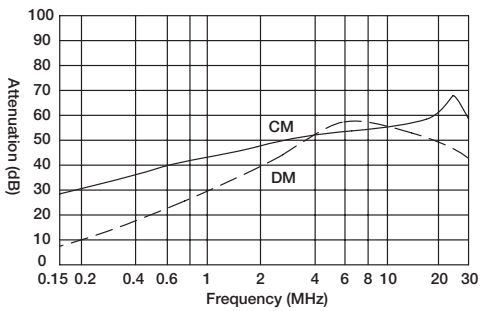
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

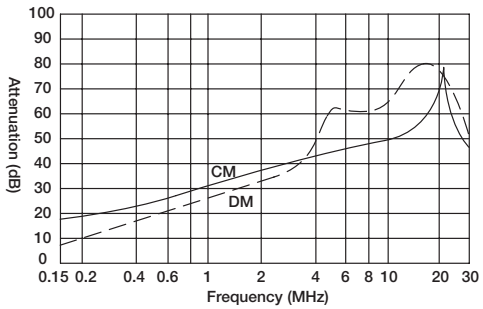
PLF-1DZ2R



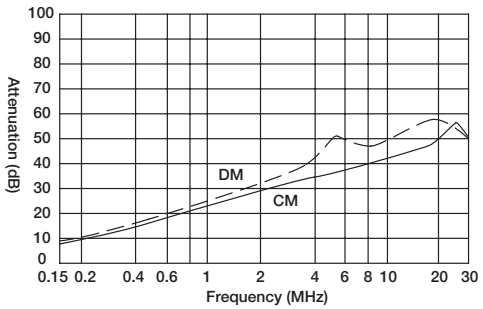
PLF-3DZ2R



PLF-6DZ2R



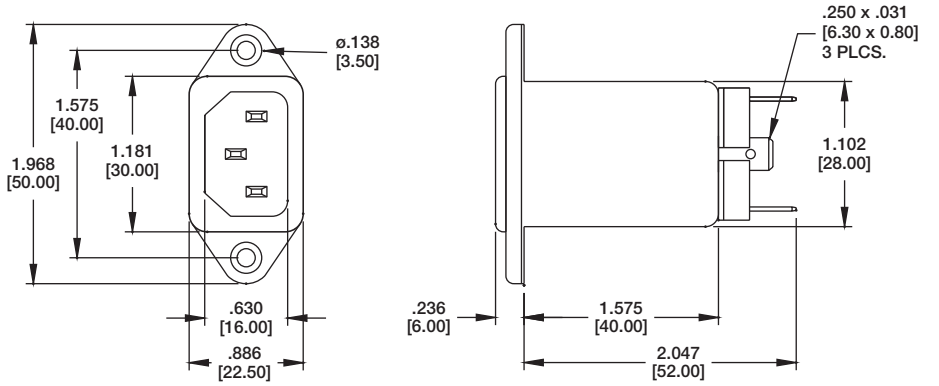
PLF-10DZ2R



EMI/RFI POWER LINE FILTERS

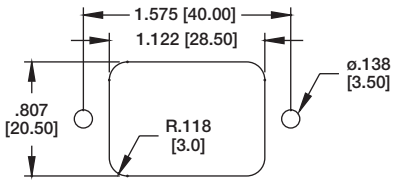
INLET SOCKET WITH FLANGE MOUNTING

PLF SERIES

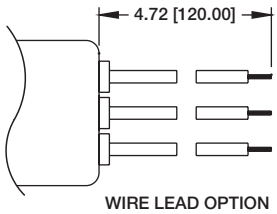




PLF-3DZ2



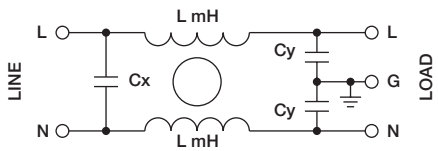
Recommended Panel Cut-Out



WIRE LEAD OPTION

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2	250V AC	3 AMP	3.3 nF	0.5mA MAX.
PLF-6DZ2	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10DZ2	250V AC	10 AMP	4.7 nF	0.5mA MAX.

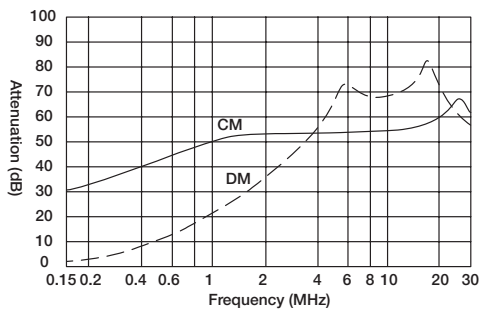
Medical Grade available, PLF-XDZW2



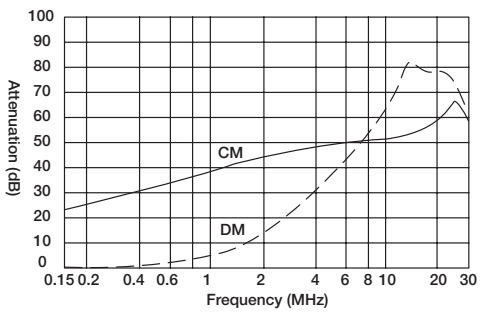
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

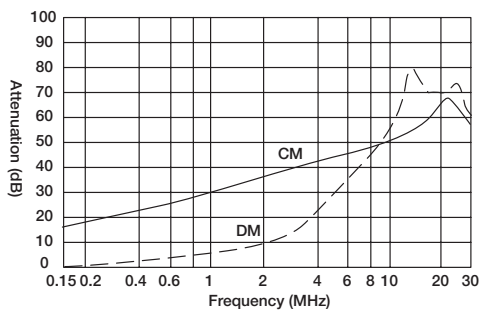
PLF-1DZ2



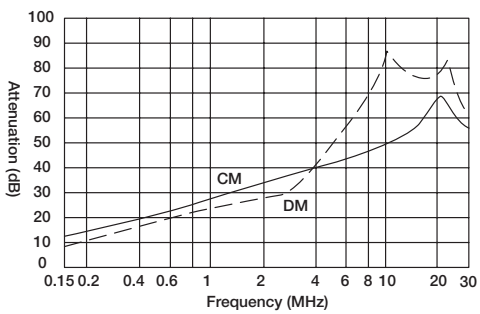
PLF-3DZ2



PLF-6DZ2



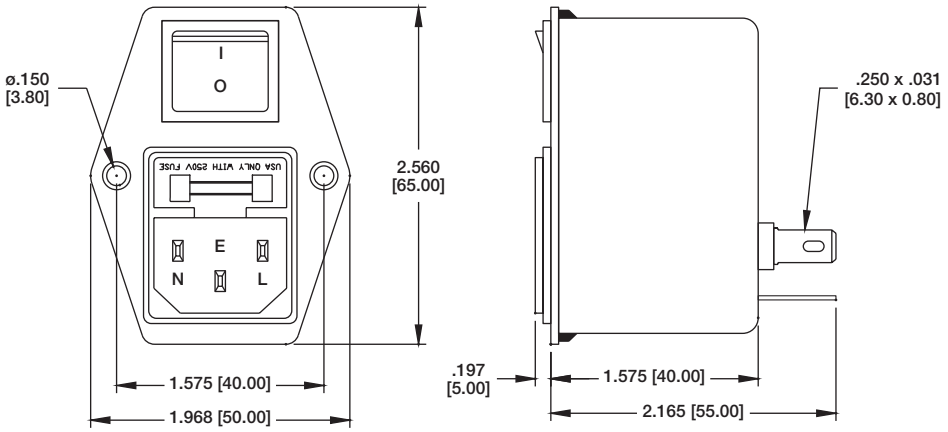
PLF-10DZ2



EMI/RFI POWER LINE FILTERS

FLANGED MODULE WITH FUSE & SWITCH

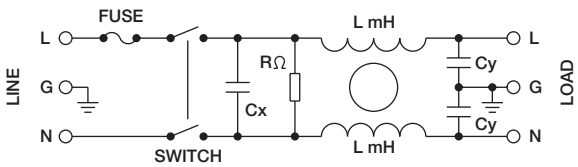
PLF SERIES





PLF-6DZ2KR

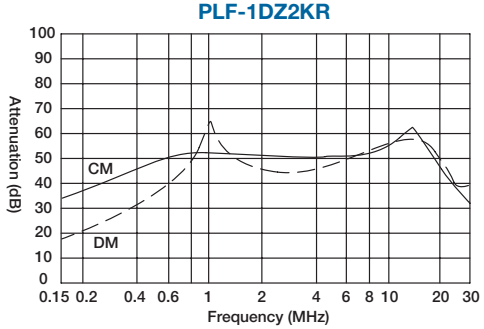
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2KR	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2KR	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6DZ2KR	250V AC	6 AMP	2.2 nF	0.5mA MAX.
PLF-10DZ2KR	250V AC	10 AMP	2.2 nF	0.5mA MAX.



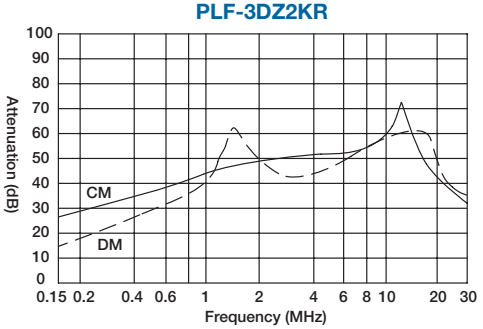
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

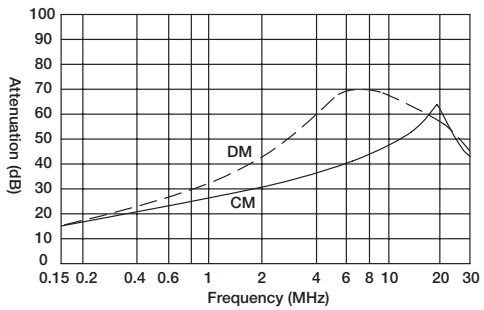
PLF-1DZ2KR



PLF-3DZ2KR



PLF-6DZ2KR



PLF-10DZ2KR

