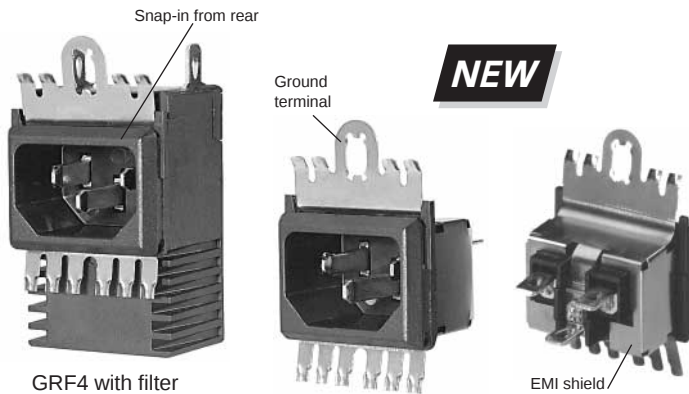


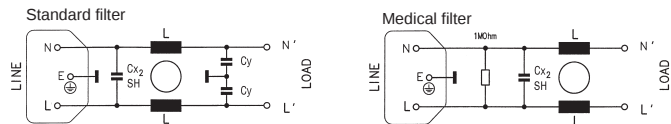
GRF Line Filter with AC Inlet and EMI Shield



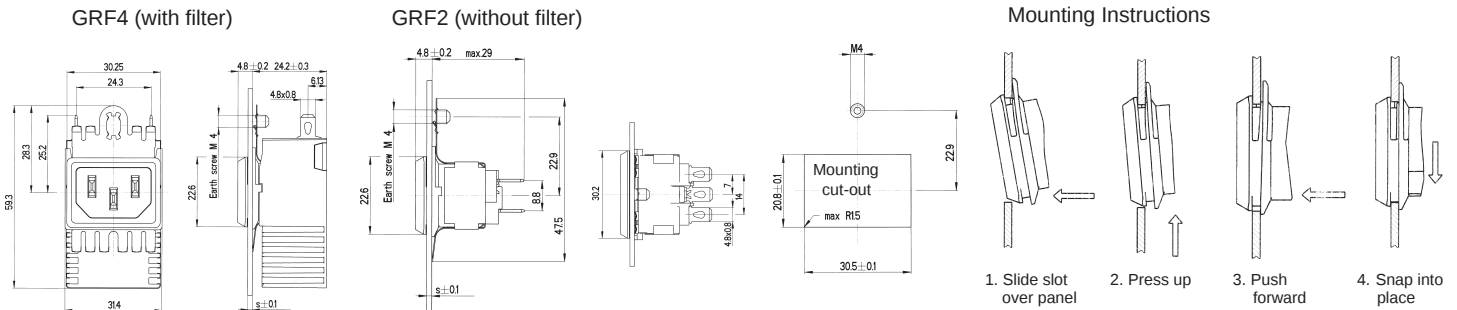
- For cold connections 70° C, Protection Class I. Qualifies for use in equipment acc. to IEC 950 and IEC 601-1 (medical filter).
- Metal shield safeguards equipment against radiated EMI (electromagnetic interference). The force of its "claws" against the enclosure reinforces contact and ensures continuity in the path to ground.
- Shielded inlet with RFI filter (GRF4) or without filter (GRF2)
- New Lock and Shield™ snap-in design for rear panel mounting – allows terminals to be pre-wired before mounting
- Solder/quick-connect terminals .187 x .032" (4.8 x 0.8mm)
- For general information on filters, see page 50
- For materials, options and accessories, see page 30
- For further description see unfiltered KP, see page 32

	GRF2	GRF4 (500mA-15A/250V)
UL recognition	15A/250V	File #E96454
CSA certification	15A/250V	File #LR38456
VDE approval	10A/250V	File #100875
SEMKO approval	10A/250V	File #102348
SEV approval	10A/250V	
		} File numbers on request

Standard or Medical Filter
(types with bleed resistors on request)



Technical Drawings



Order Numbers

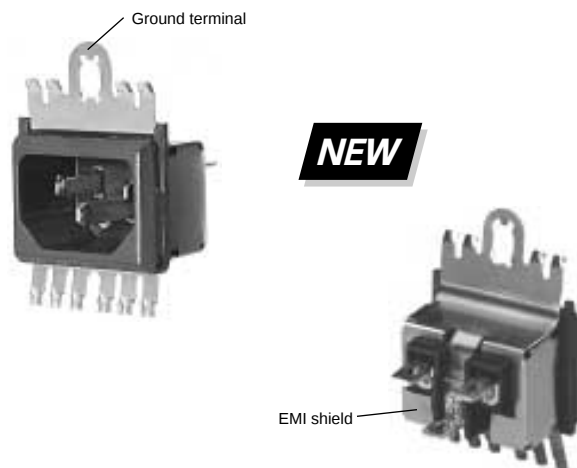
GRF4 with standard RFI filter								
Order No.	Mounting	I _n (A) T _{amb} 40°C	U _n (V)	Max. leakage curr. @ 230V/50 HZ	C _{x2} (nF)	C _y (nF)	L(2X) (mH)	Test voltage L, N E L N
GRF4.0411.013	1.5mm panel thickness (other panel thicknesses available on request)	500mA	up to 250V max. 50/60 HZ	<0.5mA	100	2.2	24	2kV 50Hz 2 sec.
GRF4.0412.013		1A		<0.5mA	100	2.2	12	
GRF4.0413.013		3A		<0.5mA	100	2.2	2.5	
GRF4.0416.013		6A		<0.5mA	100	2.2	0.78	
GRF4.0417.013		10A		<0.5mA	100	2.2	0.225	
GRF4.0419.013		15A		<0.5mA	100	2.2	0.075	

GRF4 with medical RFI filter (low leakage)								
No. Order numbers	Mounting	I _n (A) T _{amb} 40°C	U _n (V)	Max. leakage curr. @ 120V/60 HZ	C _{x2} (nF)	Bleed resistor	L(2X) (mH)	Test voltage L, N E L N
GRF4.0021.013	1.5mm panel thickness (other panel thicknesses available on request)	500mA	up to 250V max. 50/60 HZ	< 5μA	100	1 MΩ	24	2.5kV 50Hz 2 sec.
GRF4.0022.013		1A		< 5μA	100	1 MΩ	12	
GRF4.0023.013		3A		< 5μA	100	1 MΩ	2.5	
GRF4.0026.013		6A		< 5μA	100	1 MΩ	0.78	
GRF4.0027.013		10A		< 5μA	100	1 MΩ	0.225	
GRF4.0029.013		15A		< 5μA	100	1 MΩ	0.075	

GRF2 (without filter)			
Ground through metal shield and terminals	Ground through metal shield only	Panel thickness	Terminals
GRF2.0312.11	GRF2.0212.11	1.2 mm	solder/quick-connect 4.8 x 0.8mm
GRF2.0315.11	GRF2.0215.11	1.5 mm	
GRF2.0320.11	GRF2.0220.11	2.0 mm	

Unlocking accessory tool: part number 0696.0131

GRF2 AC Inlet With EMI Shield – For Panel Mounting



NEW

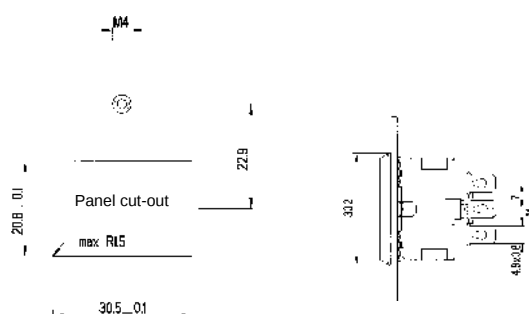
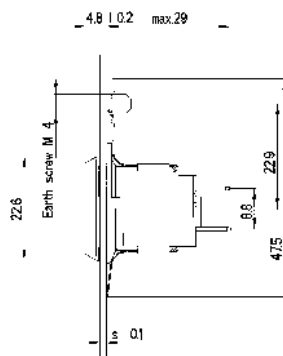
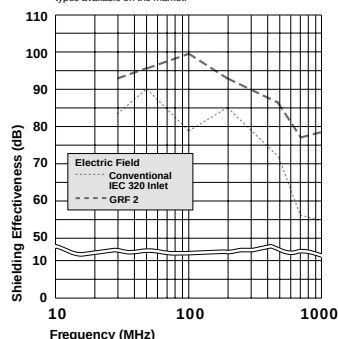
- For cold connections 70° C, Protection Class I
- Metal shield safeguards equipment against radiated EMI (electromagnetic interference). Flexible steel claws make multiple contact points on the panel to ensure shield integrity.
- New snap-in design for rear panel mounting allows terminals to be pre-wired before mounting (see diagrams below)
- Solder/quick-connect terminals .187 x .032" (4.8 x 0.8mm)
- For shielded inlet with line filter see GRF4, page 53

UL	recognition	15A/250V	File #E96454
CSA	certification	15A/250V	File #LR38456
VDE	approval	10A/250V	File #100875
SEMKO	approval	10A/250V	} File numbers on request
SEV	approval	10A/250V	

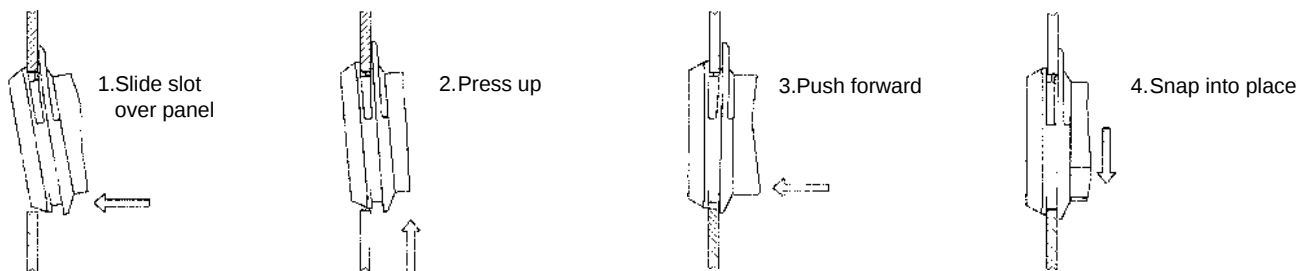
Standards: UL 1283; CSA C22.2/8; IEC 320/C14; EN 60320; EN133200

Effect of Shield Attenuation

Data is representative only. Specific measurements may vary due to differences in form, fit, function and various filter types available on the market.



Mounting Instructions



Order Numbers

GRF2 (without filter)			
Ground through metal shield and terminals	Ground through metal shield only	Panel thickness	Terminals
GRF2.0312.11	GRF2.0212.11	1.2 mm	solder/quick-connect 4.8 x 0.8mm
GRF2.0315.11	GRF2.0215.11	1.5 mm	
GRF2.0320.11	GRF2.0220.11	2.0 mm	