

Low-cost PCB filter

FN 402

- 0.5-6.5A current ratings
- Compact PCB-mountable design
- Very low profile
- Optional medical versions (B types)
- Nennströme von 0,5 bis 6,5A
- Kompaktes printmontierbares Design
- Raumsparender Aufbau
- Für medizinische Geräte als Option (Typ B)
- Courants de service de 0,5 à 6,5A
- Conception compact pour montage sur circuit imprimé
- Hauteur très réduite
- Version pour appareils médicaux en option (type B)



Filter selection table

Choose the family **FN xxx** with the required current rating and features, and add **/??** to determine input/output (line/load) connection style. Example: FN 402-4/02 is a 4A filter with PCB-connections.

Approvals



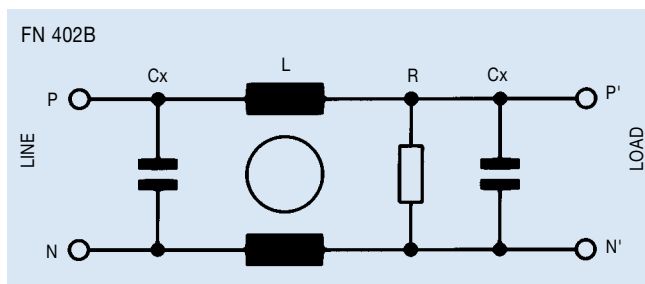
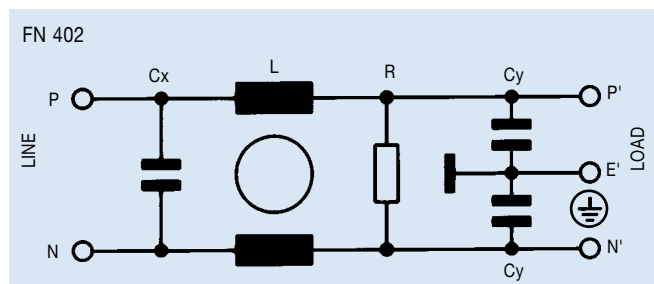
Family	Connections	Current ratings A at 40°C (25°)	Inductance L mH	Housing	Weight g
FN 402 -0.5 /??	/02	0.5 (0.6)	40	KA 4	40
FN 402 -1 /??	/02	1 (1.2)	10	KA 4	40
FN 402 -1.6 /??	/02	1.6 (1.9)	6	KA 4	40
FN 402 -2.5 /??	/02	2.5 (3.0)	2	KA 4	40
FN 402 -4 /??	/02	4 (4.7)	1	KA 4	40
FN 402 -6.5 /??	/02	6.5 (7.5)	1	KA 4	40

Additional specifications

Filter type	Capacitance		Res. R MΩ	Maximum leakage µA/phase	Maximum operating voltage		Operating frequency Hz	Hipot test voltage	
	Cx nF	Cy nF			VAC	Hz		PN→E VAC	P→N VAC
Standard types	100	2.2	1	210	250	50/60	DC to 400	2000	760
B types (medical)	100		1	2	250	50/60	DC to 400	2500	760

MTBF at 40°C, 230V, per Mil-HB-217F: 1,900,000 hours. (standard types); 1,200,000 hours (B types)

Electrical schematics

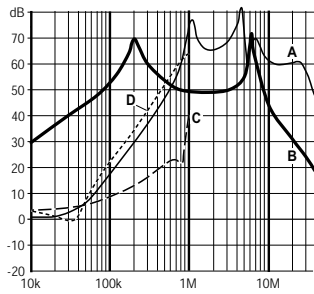


See tables for component values.

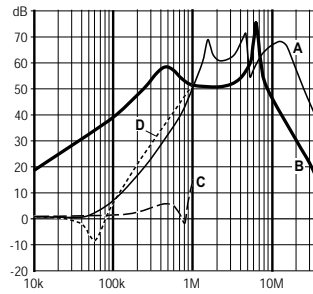
FN 402 insertion loss

Per CISPR 17; A = 50Ω/50Ω sym, B = 50Ω/50Ω asym, C = 0.1Ω/100Ω sym, D = 100Ω/0.1Ω sym

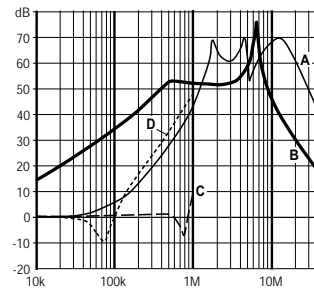
0.5 amp types



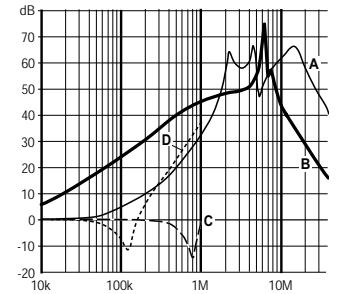
1 amp types



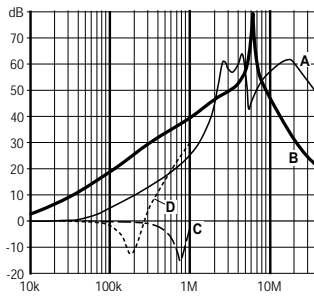
1.6 amp types



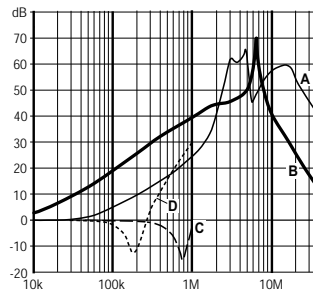
2.5 amp types



4 amp types



6.5 amp types



Mechanical data

FN 402-A-02

		Tol.* mm
A	45	± 0.5
B	28	± 0.5
C	16.5	± 0.5
D	33	± 0.5
E	10	± 0.2
F	10 / 20 (402B)	± 0.2
G	10	± 0.2
H	4	± 0.5
J	Ø0.6	± 0.1

All dimensions in mm; 1 inch = 25.4 mm

* Measurements share this common tolerance unless otherwise stated.

