PCB filters FN 402

Low cost PCB filter





- Rated currents from 0.5 to 6.5A
- Compact PCB-mountable design
- Very low profile
- Optional medical versions (B type)

Approvals





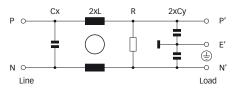




Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz			
Operating frequency:	dc to 400Hz			
Rated currents:	0.5 to 6.5A @ 40°C max.			
High potential test voltage:	P -> E 2000VAC for 2 sec (standard types)			
	P -> E 2500VAC for 2 sec (B types)			
	P -> N 760VAC for 2 sec			
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)			
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939			
Flammability corresponding to:	UL 94V-2 or better			
MTBF @ 40°C/230V (Mil-HB-217F):	1,900,000 hours			

Typical electrical schematic



The FN 402 PCB filter is a single-phase filter designed for easy and fast PCB-mounting. Choosing the FN 402 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptance. Standard PCB single-phase filters are a practical solution helping you to pass EMI system approval in a short time. A selection on amperage ratings and medical types are designed to offer you the desired standard product.

Features and benefits

- The FN 402 PCB filter is a single-phase filter Good conducted attenuation performance, designed for easy and fast PCB-mounting.

 Choosing the FN 402 product line brings resistance and excellent thermal behavior.
 - PCB through hole mounting.
 - Low cost low profile.
 - Custom specific versions on request.

Typical applications

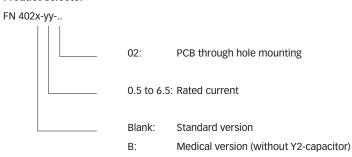
- Electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical equipment

Filter selection table

Filter	Rated current	Leakage current*	Inductance	Capa	acitance	Resistance	Input/Output	Weight
	@ 40°C (25°C)	@ 230VAC/50Hz	L	Сх	Су	R	connections	
	[A]	[μA]	[mH]	[nF]	[nF]	[kΩ]		[g]
FN 402-0.5-02	0.5 (0.6)	373	40	100	2.2	1000	-02	40
FN 402-1-02	1 (1.2)	373	10	100	2.2	1000	-02	40
FN 402-1.6-02	1.6 (1.9)	373	6	100	2.2	1000	-02	40
FN 402-2.5-02	2.5 (3)	373	2	100	2.2	1000	-02	40
FN 402-4-02	4 (4.7)	373	1	100	2.2	1000	-02	40
FN 402-6.5-02	6.5 (7.5)	373	1	100	2.2	1000	-02	40
FN 402B-0.5-02	0.5 (0.6)	2	40	100		1000	-02	40
FN 402B-1-02	1 (1.2)	2	10	100		1000	-02	40
FN 402B-1.6-02	1.6 (1.9)	2	6	100		1000	-02	40
FN 402B-2.5-02	2.5 (3)	2	2	100		1000	-02	40
FN 402B-4-02	4 (4.7)	2	1	100		1000	-02	40
FN 402B-6.5-02	6.5 (7.5)	2	1	100		1000	-02	40

^{*} Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

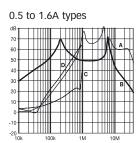
Product selector

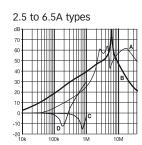


For example: FN 402-0.5-02, FN 402B-6.5-02

Typical filter attenuation

Per CISPR 17; A = $50\Omega/50\Omega$ sym; B = $50\Omega/50\Omega$ asym; C = $0.1\Omega/100\Omega$ sym; D = $100\Omega/0.1\Omega$ sym

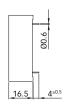




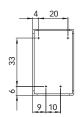
Mechanical data

4 10 10

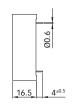
FN 402

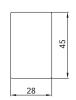






FN 402B





All dimensions in mm; 1 inch = 25.4mm Tolerances according: ISO 2768-m / EN 22768-m

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