

IEC Inlet Filters
FN 9226

HF Performance IEC Inlet Filter

energy efficiency and reliability



- **Rated currents up to 10A**
- **Faston connection**
- **Optional PCB through hole connection**
- **Good HF coupling to the equipment housing**
- **Optional medical versions (B type)**

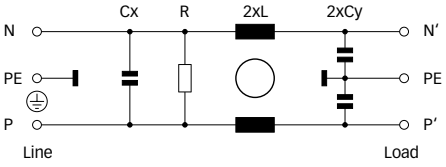
Approvals

RoHS 2002/95/EC

Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10A @ 50°C
Approvals by rated current:	1 to 10A (ENEC, UL, CSA)
High potential test voltage:	P –> PE 2000VAC for 2 sec (standard types)
	P –> PE 2500VAC for 2 sec (B types)
	P –> N 760VAC for 2 sec
Protection category:	IP40 according to IEC 60529
Temperature range (operation and storage):	-25°C to +85°C (25/85/21)
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):	800,000 hours

Typical electrical schematic



The FN 9226 IEC inlet filter combines an IEC inlet and mains filter with excellent filter attenuation in a small form factor. The FN 9226 is designed for printed circuit board mounting with good HF coupling to the equipment housing. Choosing the FN 9226 power entry module brings you the rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on current ratings, output connections and low leakage versions for medical applications helps you to select the desired solution for your application.

Features and benefits

- High conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- Rear flange mounting.
- Optional low leakage current versions for medical applications.
- Faston connection or PCB through hole pins.
- Good HF coupling.
- Rated currents up to 10A.
- Custom-specific versions are available on request.

Typical applications

- Portable electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Consumer goods
- Test and measurement equipment
- EDP and office equipment
- Medical equipment
- Rack mounting equipment

Filter selection table

Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230VAC/50Hz [µA]	Inductance L [mH]	Capacitance Cx [nF]	Capacitance Cy [nF]	Resistance R [kΩ]	Output connections		Weight [g]
									
FN 9226-1-..	1 (1.2)	373	4.65	47.0	2.2		-02	-06	40
FN 9226-3-..	3 (3.5)	373	1.24	47.0	2.2		-02	-06	40
FN 9226-6-..	6 (7.2)	373	0.52	47.0	2.2		-02	-06	40
FN 9226-10-..	10 (11.6)	373	0.27	47.0	2.2		-02	-06	40
FN 9226B-1-..	1 (1.2)	2	4.65	47.0		2200	-02	-06	40
FN 9226B-3-..	3 (3.5)	2	1.24	47.0		2200	-02	-06	40
FN 9226B-6-..	6 (7.2)	2	0.52	47.0		2200	-02	-06	40
FN 9226B-10-..	10 (11.6)	2	0.27	47.0		2200	-02	-06	40

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

Product selector

FN 9226x-yy-..

02: PCB through hole mounting

06: Faston 6.3 x 0.8mm (spade/soldering)

1 to 10: Rated current

Blank: Standard version

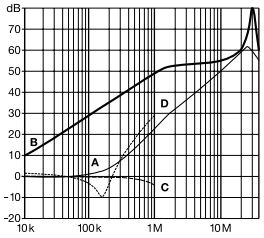
B: Medical version (with bleed resistor and without Y2-capacitor)

For example: FN 9226-6-02, FN 9226B-10-06

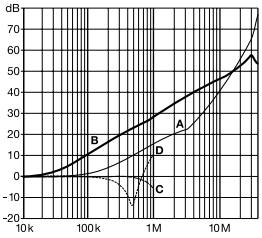
Typical filter attenuation

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

1 and 3A types

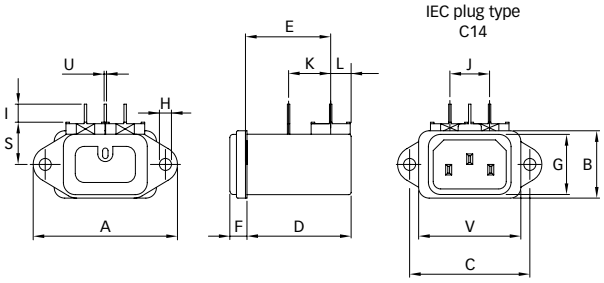


6 and 10A types

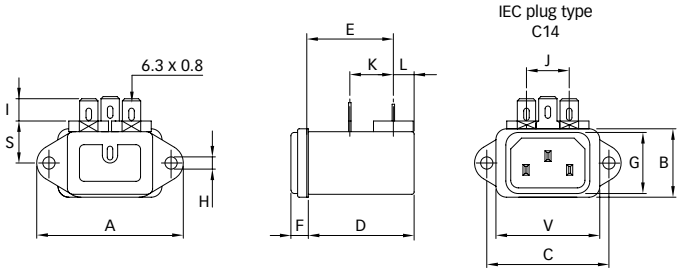


Mechanical data

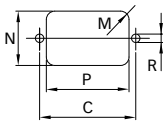
Connection style -02



Connection style -06



Panel cut out



Dimensions

	FN 9226 Connection style -02	FN 9226 Connections style -06	Tolerances
A	48	48	±0.5
B	22.4	22.4	±0.3
C	40	40	±0.2
D	35.15	35.15	±0.3
E	28.35	28.35	±0.3
F	5.7	5.7	±0.3
G	20	20	±0.3
H	Ø4	Ø4	
I	6	7.3	
J	13.2	13.2	+0.6/-0
K	14	14.25	±0.5
L	6.8	6.8	±0.3
M	R ≤ 3.5	R ≤ 3.5	
N	22.6	22.6	+0.2/-0
P	34.4	34.4	+0.2/-0
R	Ø3.5	Ø3.5	
S	14	14	
U	⍁ 0.8		±0.1
V	34	34	±0.3

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

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