

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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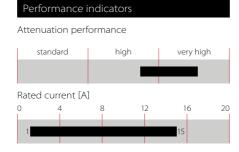


Excellent Performance EMC/EMI Filter



- Superior attenuation performance
- Optional earth line choke
- Complies with IEC/EN 60601-1
- Snap-in versions (S and S1 type)
- Hot inlet versions (HI type)





Technical specifications

Maximum continuous operating voltage
Operating frequency
Rated currents
Approvals by rated current
High potential test voltage

Protection category
Temperature range (operation and storage)
Design corresponding to
Flammability corresponding to
MTBF @ 40°C/230 V (Mil-HB-217F)

250 VAC, 50/60 Hz

DC to 400 Hz

1 to 15 A @ 50°C max

1 to 10 A (ENEC, CQC)

1 to 15 A (UL, CSA)

P -> PE 2000 VAC for 2 sec (standard types)

P -> PE 2500 VAC for 2 sec (B types)

P -> N 1000 VAC for 2 sec

IP 40 according to IEC 60529

-25°C to +85°C (25/85/21)

UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939

UL 94 V-2 or better

≤8 A: 2,035,000 hours

≤15 A: 1,035,000 hours

Approvals













(CQC except HI-types)

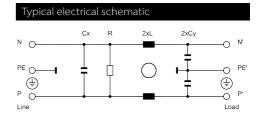
The FN 9244 IEC inlet filter combines an IEC inlet and mains filter with superior filter attenuation in a small form factor. Choosing the FN 9244 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on amperage ratings, output connections, mounting possibilities and filters for medical applications are designed to offer you the desired solution.

Features and benefits

- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- I Standard or wide mounting flange
- Optional medical versions (B type) comply with the requirements of IEC/EN 60601-1 for creepage and clearance, leakage current and high potential testing
- Optional earth line choke see FN 9244 E data sheet
- 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
- Test and measurement equipment
- Medical devices (MDD)
- In-vitro diagnostic medical devices (IVDD)
- Rack mounting equipment



Filter selection table

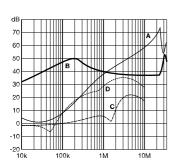
Filter	Rated current	Leakage current*	Inductance	Inductance Capacitan		Resistance	Output	Weight
	@ 50°C (25°C)	@ 250 VAC/50 Hz	L	Cx	Су	R	connections	
		(@ 120 VAC/60 Hz)						
	[A]	[mA]	[mH]	[μF]	[nF]	[kΩ]		[g]
FN 9244 x-1-06	1 (1.2)	0.31 (0.18)	59.53	0.1	2.2		-06	38
FN 9244 x-3-06	3 (3.5)	0.31 (0.18)	13.45	0.1	2.2		-06	38
FN 9244 x-6-06	6 (7.2)	0.31 (0.18)	4.1	0.1	2.2		-06	38
FN 9244 x-8-06	8 (10.6)	0.31 (0.18)	2.3	0.1	2.2		-06	38
FN 9244 x-10-06	10 (11.6)	0.31 (0.18)	1.02	0.1	2.2		-06	38
FN 9244 x-12-06	12 (12)	0.31 (0.18)	0.58	0.1	2.2		-06	38
FN 9244 x-15-06	15 (15)	0.31 (0.18)	0.4	0.1	2.2		-06	38
FN 9244 x-12-06HI	12 (12)	0.31 (0.18)	0.58	0.1	2.2		-06	38
FN 9244 x-15-06HI	15 (15)	0.31 (0.18)	0.4	0.1	2.2		-06	38
FN 9244 xR-1-06	1 (1.2)	0.31 (0.18)	59.53	0.1	2.2	1000	-06	38
FN 9244 xR-3-06	3 (3.5)	0.31 (0.18)	13.45	0.1	2.2	1000	-06	38
FN 9244 xR-6-06	6 (7.2)	0.31 (0.18)	4.1	0.1	2.2	1000	-06	38
FN 9244 xR-8-06	8 (10.6)	0.31 (0.18)	2.3	0.1	2.2	1000	-06	38
FN 9244 xR-10-06	10 (11.6)	0.31 (0.18)	1.02	0.1	2.2	1000	-06	38
FN 9244 xR-12-06	12 (12)	0.31 (0.18)	0.58	0.1	2.2	1000	-06	38
FN 9244 xR-15-06	15 (15)	0.31 (0.18)	0.4	0.1	2.2	1000	-06	38
FN 9244 xR-12-06HI	12 (12)	0.31 (0.18)	0.58	0.1	2.2	1000	-06	38
FN 9244 xR-15-06HI	15 (15)	0.31 (0.18)	0.4	0.1	2.2	1000	-06	38
FN 9244 xB-1-06	1 (1.2)	0.00	59.53	0.1		1000	-06	38
FN 9244 xB-3-06	3 (3.5)	0.00	13.45	0.1		1000	-06	38
FN 9244 xB-6-06	6 (7.2)	0.00	4.1	0.1		1000	-06	38
FN 9244 xB-8-06	8 (10.6)	0.00	2.3	0.1		1000	-06	38
FN 9244 xB-10-06	10 (11.6)	0.00	1.02	0.1		1000	-06	38
FN 9244 xB-12-06	12 (12)	0.00	0.58	0.1		1000	-06	38
FN 9244 xB-15-06	15 (15)	0.00	0.4	0.1		1000	-06	38
FN 9244 xB-12-06HI	12 (12)	0.00	0.58	0.1		1000	-06	38
FN 9244 xB-15-06HI	15 (15)	0.00	0.4	0.1		1000	-06	38

^{*} Maximum leakage under normal operating conditions (acc. to IEC60939-3). Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

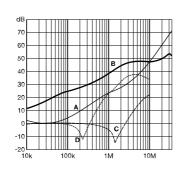
Typical filter attenuation

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

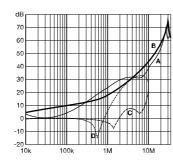




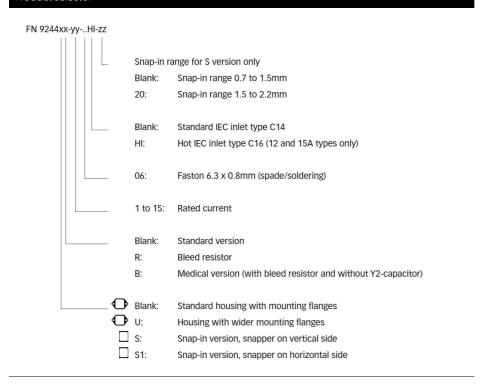
6 to 10 A types



12 and 15 A types

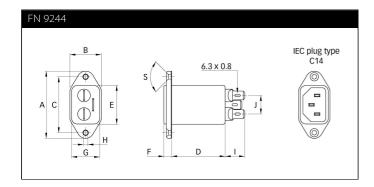


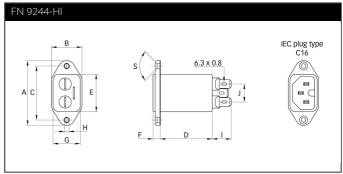
Product selector

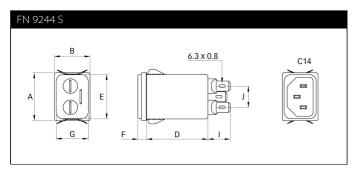


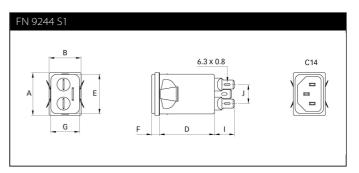
For example: FN 9244 B-15-06, FN 9244 S1B-10-06-20, FN 9244 R-12-06HI, FN 9244 UB-8-06

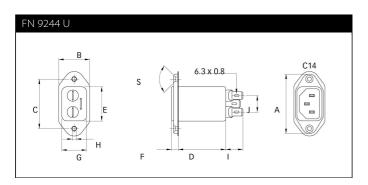
Mechanical data

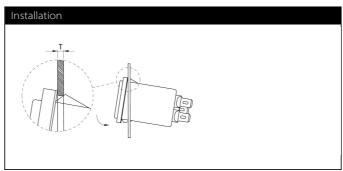


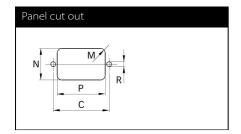












Dimensions

	FN 9244	FN 9244 U	FN 92244 S	FN 92244 S1	FN 9244-HI
Α	48	48	29.9	29.9	48
В	22.4	25	22.4	22.4	22.4
c	40 ±0.2	40 ±0.2			40 ±0.2
D	38.25	38.25	38.25	38.25	38.25
E	27.8	27.8	27.8	27.8	27.8
F	5.7	5.7	5.7	5.7	5.7
G	20.1	20.1	20.1	20.1	20.1
Н	Ø3.3	Ø3.3			Ø3.3
1	14	14	14	14	14
J	13.3	13.3	13.3	13.3	13.3
M	R ≤3	R ≤3	R ≤1.5	R ≤1.5	R ≤3
N	21.5	21.5	20.8	21.9	21.5
P	28.5	28.5	29.4	28.5	28.5
R	M3	M3			M3
S	90°	90°			90°
T *			0.7-1.5	0.7-1.5	
T*			1.5-2.2	1.5-2.2	

 $[\]mbox{\ensuremath{^{*}}}$ For selecting the panel thickness, please refer to the filter selector table.

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

Please visit $\underline{www.schaffner.com}$ to find more details on connectors.



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