



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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IEC inlet filters FN 321

Compact IEC inlet filter



- Rated currents up to 10A
- High attenuation performance
- Reduces interference susceptibility

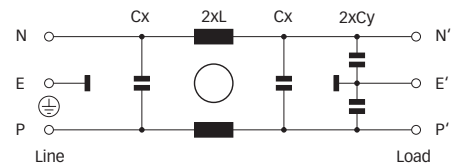
Approvals



Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10A @ 50°C max.
High potential test voltage:	P → E 2000VAC for 2 sec 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, 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 321 IEC inlet filter combines an IEC inlet and mains filter with excellent filter attenuation in a small form factor. Choosing the FN 321 compact 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 and output connections helping 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 or front flange mounting.
- Faston or solder terminal connections.
- 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
- Test and measurement equipment
- EDP and office equipment
- Rack mounting equipment

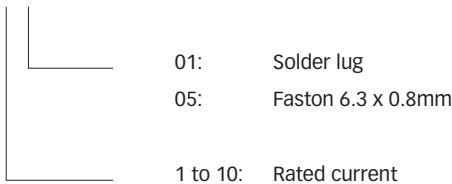
Filter selection table

Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Inductance L	Capacitance		Resistance R	Output connections		Weight
	[A]	[µA]	[mH]	Cx [nF]	Cy [nF]	[kΩ]			[g]
FN 321-1-..	1 (1.2)	560	10	47	3.3		-01	-05	65
FN 321-3-..	3 (3.5)	560	3.1	47	3.3		-01	-05	65
FN 321-6-..	6 (7.2)	560	1.2	47	3.3		-01	-05	65
FN 321-10-..	10 (11.6)	560	0.36	47	3.3		-01	-05	65

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

Product selector

FN 321-yy-..

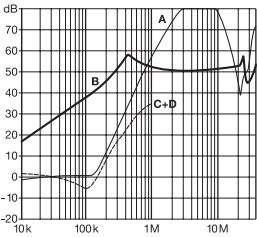


For example: FN 321-6-01, FN 321-10-05

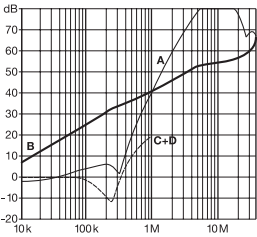
Typical filter attenuation

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

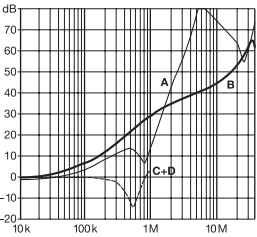
1A types



3 and 6A types

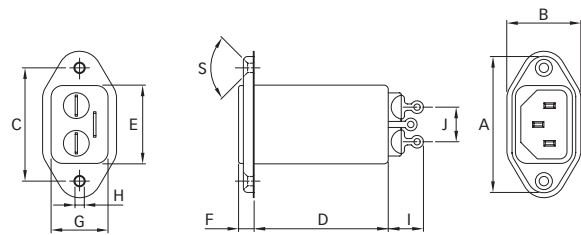


10A types

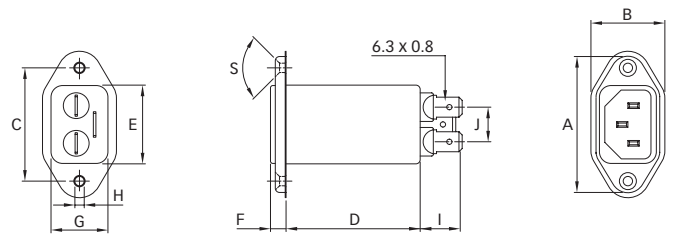


Mechanical data

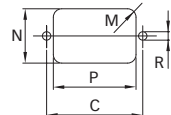
Connection style -01



Connection style -05



Panel cut out



Dimensions

	FN 321 Connection style -01	FN 321 Connection style -05	Tolerances
A	51.5	51.5	±0.5
B	26	26	±0.3
C	40	40	±0.2
D	46.6	46.6	±0.3
E	27.9	27.9	+0.5
F	5.5	5.5	±0.3
G	20.1	20.1	
H	Ø3.3	Ø3.3	
I	11.4	13.4	
J	10.9	10.9	±0.5
M	R ≤ 3	R ≤ 3	
N	21.5	21.5	±0.2
P	28.5	28.5	±0.2
R	M3	M3	
S	90°	90°	

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