

Overview

The FBN Chassis Mount IEC 60320 Power Inlet EMI Filters have compact, lightweight, and low-cost metallic enclosures. They feature faston terminals for quick connection and are designed to provide economic solutions for a multitude of general-purpose filtering requirements.

Applications

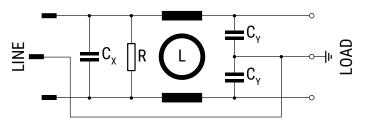
Typical applications include industrial power, office appliances, business equipment, and medical equipment.



Technical Specifications

ltem	Parameters/ Characteristics		
Rated Voltage	250 VAC		
Rated Frequency	50 – 60 Hz		
Rated Current	1 – 10 A		
Rated Temperature	40°C		
Temperature Range	-25°C to +85°C		
Climate Category	25/085/21		
Voltage Test	$\begin{array}{c} P \rightarrow P \ 1,700 \ VDC \\ P \rightarrow E \ 3,000 \ VDC \end{array}$		

Circuit Diagram





Technical Specifications cont.

Part Number	I _R (A)	L (mH)	C _χ (μF)	C _y (nF)	I _L (mA)	R (MΩ)
FBNAB3100ZB110	1	2 x 10	0.1	2.2	0.21	1
FBNAB3100ZD110	3	2 x 2.5	0.1	2.2	0.21	1
FBNAB3100ZF110	6	2 x 1	0.1	2.2	0.21	1
FBNAB3100ZG110	10	2 x 0.13	0.1	2.2	0.21	1
FBNMB3100ZB110	1	2 x 10	0.1	-	-	1
FBNMB3100ZD110	3	2 x 2.5	0.1	-	-	1
FBNMB3100ZF110	6	2 x 1	0.1	-	-	1
FBNMB3100ZG110	10	2 x 0.13	0.1	-	-	1

Approvals

The FBN is designed according to IEC/EN/UL 60939 and UL 1283.

Standard	Certification Body
IEC/EN 60939-2	VDE
UL 1283, 5th Edition	UL
CSA C22.2 No. 8	UL

Environmental Compliance

KEMET EMI filters are RoHS Compliant.





Typical Insertion Loss



3 and 6 A

1

Frequency (MHz)

---Common mode

10

100

----- Differential mode

0.1

100

90

80

70

60

50

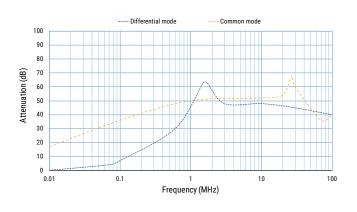
40

30

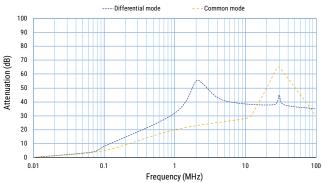
20

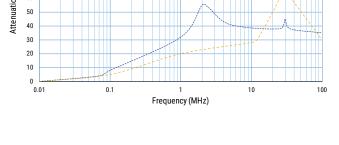
10 0.01

Attenuation (dB)



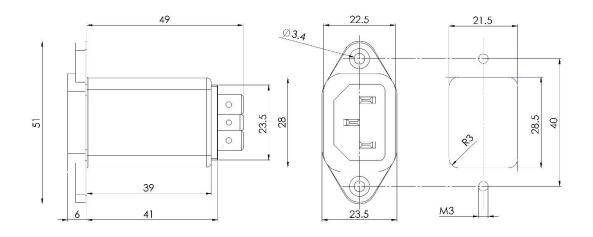
10 A







Mechanical Dimensions – Millimeters



Metallic case

• Fast-on connection 6.3 x 0.8 mm

Tolerances, if not stated, are according to ISO 2768-c.



KEMET Electronics Corporation Sales Offices

For a complete list of our global sales offices, please visit www.kemet.com/sales.

Disclaimer

YAGEO Corporation and its affiliates do not recommend the use of commercial or automotive grade products for high reliability applications or manned space flight.

All product specifications, statements, information and data (collectively, the "Information") in this datasheet are subject to change. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

Statements of suitability for certain applications are based on KEMET Electronics Corporation's ("KEMET") knowledge of typical operating conditions for such applications, but are not intended to constitute – and KEMET specifically disclaims – any warranty concerning suitability for a specific customer application or use. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by KEMET with reference to the use of KEMET's products is given gratis, and KEMET assumes no obligation or liability for the advice given or results obtained.

Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

KEMET is a registered trademark of KEMET Electronics Corporation.