MFB EMI Suppressors



Eaton multilayer ferrite beads for EMI suppression



Eaton's multilayer ferrite beads (MFB) offer a wide range of highimpedance performance across a wide range of high-frequency applications.

Product description

Eaton's multilayer ferrite beads (MFB) offer a wide range of high-impedance performance across a wide range of highfrequency applications. Eaton's MFB family comes in a wide variety of industry standard sizes. They are uniquely designed to minimize highfrequency electrical noise in EMI-sensitive applications.

Eaton MFBs are offered in two versions; the MFBW with higher impedance values and MFBM ideal for higher current RF/wireless applications. Each product comprises a rugged multilayer construction suitable for high EMI suppression performancece.

MFB inductors are designed using world-class manufacturing and quality standards to guarantee excellent product performance. Each product comprises eco-friendly materials and meets RoHS compliance.

Features and benefits:

- Standard packages and impedance ranges
- 0402(1005), 0603(1608), 0805(2012), and 1206(3216) industry sizes in multilayer constructions
- High-frequency design
- Higher current-handling capability (Up to 6 A in MFBW version)
- A wide range of impedance and frequency options (impedance range from 0 Ω to 2000 Ω and frequencies up to 100 MHz)

Benefits for high-frequency applications:

- Offered in several industrystandard packages
- Durable monolithic construction
- Wide range of impedances
- Reliable EMI suppression in RF signal lines
- Impedances covering many high-frequency applications
- Operating temperatures from -40 °C to +85 °C
- Halogen-free, lead-free, and RoHS compliant



Product specifications

Family name	Impedance (Ω)	DCR range (Ω) maximum @ +25 °C	Test frequency (MHz)	Test voltage (mV)	Rated I range (mA) maximum
Multilayer					
MFBM1V1005	0 - 1000	0.05 - 0.65	100	50	300 - 1800
MFBM1V1608	0 - 1000	0.02 - 0.40	100	50	600 - 6000
MFBM1V2012	0 - 1000	0.01 - 0.12	100	50	1500 - 6000
MFBM1V3216	0 - 1000	0.01 - 0.12	100	50	2000 - 6000
MFBW1V1005	0 - 1000	0.04 - 1.00	100	50	200 - 800
MFBW1V1608	0 - 2000	0.08 - 0.90	100	50	400 - 1000
MFBW1V2012	0 - 2000	0.03 - 0.50	100	50	300 - 3000
MFBW1V3216	0 - 2000	0.04 - 0.70	100	50	300 - 4000



Part number	L	w	т	а	F	G	н
MFBM1V1005-xxx-R	1.0 ±0.15	0.50 ±0.15	0.50 ±0.15	0.25 ±0.10	0.90 ref	0.20 ref	0.80 ref
MFBM1V1608-xxx-R	1.6 ±0.2	0.80 ±0.2	0.80 ±0.2	0.30 ±0.2	1.20 ref	0.40 ref	0.90 ref
MFBM1V2012-xxx-R	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.3	1.60 ref	0.20 ref	1.20 ref
MFBM1V3216-xxx-R	3.2 ±0.20	1.6 ±0.20	0.9 ±0.20	0.5 ±0.3	2.00 ref	1.40 ref	1.20 ref
MFBW1V1005-xxx-R	1.0 ±0.15	0.50 ±0.15	0.50 ±0.15	0.25 ±0.1	0.90 ref	0.20 ref	0.80 ref
MFBW1V1608-xxx-R	1.6 ±0.2	0.80 ±0.2	0.80 ±0.2	0.30 ±0.2	1.20 ref	0.40 ref	0.90 ref
MFBW1V2012-xxx-R	2.0 ±0.20	1.2 ±0.20	0.9 ±0.20	0.5 ±0.3	1.60 ref	0.20 ref	1.20 ref
MFBW1V3216-xxx-R	3.2 ±0.20	1.6 ±0.20	0.9 ±0.20	0.5 ±0.3	2.00 ref	1.40 ref	1.20 ref

Eaton Electronics Division 1000 Eaton Boulevard Cleveland, OH 44122 United States Eaton.com/electronics

© 2020 Eaton All Rights Reserved Printed in USA Publication No. 11165 BU-MC20145 August 2020

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.



Printed in L Powering Business Worldwide August 202

FAT•N