



Military DC Capacitor Filter Assembly

The BM-FCA Filter series has been designed to help military vehicle and land based systems to be protected from the hazard of electromagnetic interference. It's physical compactness and in-line installation allows ease of application and installation including retro fitting. The BM-FCA filter series are available in 2,3 and 4 line formats with high performance characteristics allowing for Def Stan 59-411 and Mil STD 461 compliance on military systems and platforms. Surge protection can also be incorporated in to the circuit to assist with transient susceptibility. The filter is encapsulated within its stainless steel housing enabling it to meet rigorous shock, vibration and environmental standards. The filter is rated at 100A and is available in performance ranges from 2 μ F to 40 μ F formats, making it a very compact multi-application unit providing the ultimate high performance solution.



BM FCA Series

Performance
Quality
Innovation

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Technical Specification

Part No: 2 Line	Part No: 3 Line	Part No: 4 Line	Capacitance ($\mu\text{F} \pm 20\%$)	Voltage Rating (V dc)	Typical Insertion Loss (dB) in a 50 Ω system with/without load							
					10 kHz	30kHz	100kHz	300kHz	1MHz	10MHz	100MH	1GHz
FCA2/2	FCA3/2	FCA4/2	2	400	10	20	30	40	50	58	90	90
FCA2/4	FCA3/4	FCA4/4	4	250	15	25	35	45	55	70	90	90
FCA2/6	FCA3/6	FCA4/6	6	150	20	30	40	50	40	75	90	90
FCA2/14	FCA3/14	FCA4/14	14	100	25	35	45	55	65	85	90	90
FCA2/18	FCA3/18	FCA4/18	18	80	30	40	50	60	65	90	90	90
FCA2/25	FCA3/25	FCA4/25	25	63	30	40	50	60	65	90	90	90
FCA2/40	FCA3/40	FCA4/40	40	30	35	45	55	65	65	90	90	90

Dimensions & Mechanical Details

Dimensions	On Application
Case	Stainless Steel
Terminals	Nickel Plate Brass
Weight	2Line - 250g, 3 Line 350g, 4 Line 450g
Terminals	M8
Potting	Epoxy Resin

Ratings and Characteristics

Test Voltage	2x Rated Voltage
Rated Current	100A @ 50°C
Insulation Resistance	> 100M Ω
DC Resistance	< 0.5m Ω
Ambient Temperature Range	-55°C to + 85°C
Potting	Epoxy Resin

