

Chassis Mount Filter

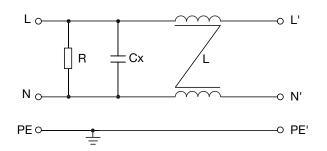
- Chassis Mount Filter
- Single Stage Design
- Compact Design
- Medical Applications
- 1, 3, 6, 10, 15 & 20A Rating
- 6.3 x 0.8mm Faston Terminals
- Bleed Resistor
- Shielded Metal Body
- Wide Operating Temperature Range
- 3 Year Warranty



The FHSM single stage filters are housed in a compact, chassis mounting metal case, for medical applications with a low 5µA @250VAC earth leakage. Input and output connections are via 6.3 x 0.8mm Faston terminals. The filter should be fitted as close as possible to the mains cable entry point to minimize any radiated emissions from the mains cable within the equipment. Suitable for class I appliances, all models feature a shielded metal body, and are fitted with a bleed resistor to safely discharge the filter capacitors when power is disconnected. Safety approvals are EN60939-2 for passive filters & ANSI/UL1283 for EMI filters. They feature a wide operating temperature range of -40°C to +110°C with full power operation up to +50°C.

Specifications									
Characteristics	Minimum	Typical	Maximum	Units	Notes and Conditions				
Rated Voltage			250	VAC					
Input Frequency	DC		400	Hz					
Rated Current	1		20	А	See models and ratings table				
Earth Leakage Current	2		5	μА	See models and ratings table				
MTBF	2.2			MHrs	MIL-HDBK 217F, 250 VAC at 40°C				
Flammability Rating	UL94V-2								
Temperature Operating	-40		110	°C	See derating curve				
Safety Approvals	EN60939-2			Passive filter units for EMI suppression					
Salety Approvals	ANSI/UL1283	3		Electromagnetic Interference Filters					
Terminals	Faston 6.3 x 0.8mm straight								
Protection Class	Suitable for appliances with protection Class I								
Dielectric Strength		1500		VAC					

Electrical Schematic

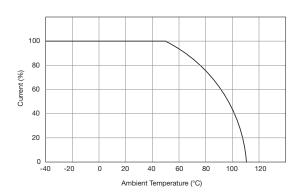




Models & Ratings

Rated	Leakage current		Inductance	Capacitance		Resistance	Weight	Application	Mounting	Filter
current	115VAC/60Hz	250VAC/50Hz	at 10 kHz, 0.25 V	Сх	Су	nesistance	weignt	Application	wounting	Filter
1 A	2 μΑ	5 μΑ	2 x 10 mH	0.1 μF	None	1 ΜΩ	37g	Medical	Chassis	FHSMM01A1FR
3 A	2 μΑ	5 μΑ	2 x 1.2 mH	0.1 μF	None	1 ΜΩ	37g	Medical	Chassis	FHSMM03A1FR
6 A	2 μΑ	5 μΑ	2 x 0.8 mH	0.1 μF	None	1 ΜΩ	43g	Medical	Chassis	FHSMM06A1FR
10 A	2 μΑ	5 μΑ	2 x 0.3 mH	0.1 μF	None	1 ΜΩ	43g	Medical	Chassis	FHSMM10A1FR
15 A	2 μΑ	5 μΑ	2 x 0.8 mH	0.1 μF	None	1 ΜΩ	99g	Medical	Chassis	FHSMM15A2FR
20 A	2 μΑ	5 μΑ	2 x 0.6 mH	0.1 μF	None	1 ΜΩ	94g	Medical	Chassis	FHSMM20A2FR

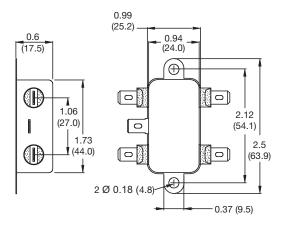
Thermal Derating



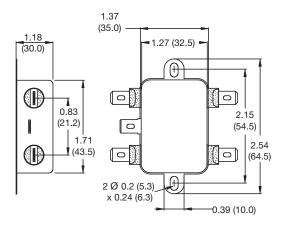
Mechanical Details

All dimensions in inches (mm)

FHSMMxxA1FR



FHSMMxxA2FR





Typical Attenuation Curves

Per CISPR 17, 50 Ω system

Asymmetrical (Common Mode)

Symmetrical (Differential Mode)

