FHSM

XP Power

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

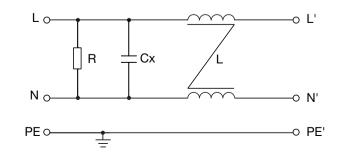


EMI Filter

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

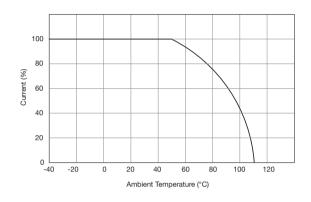
Electrical Schematic



Models & Ratings

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

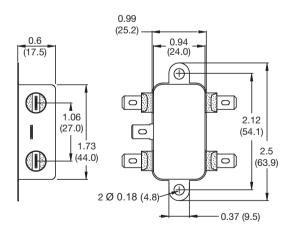
Thermal Derating



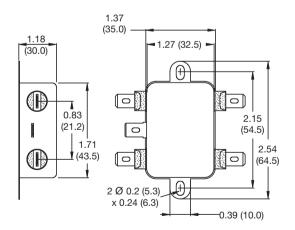
Mechanical Details

All dimensions in inches (mm)

FHSMMxxA1FR



FHSMMxxA2FR



FHSM



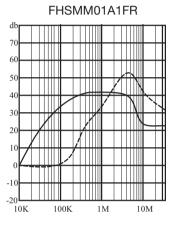
Typical Attenuation Curves

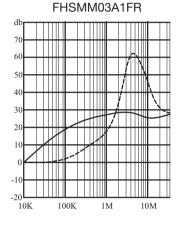
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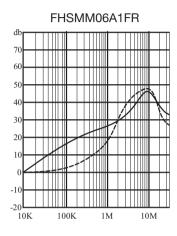
Per CISPR 17, 50 Ω system

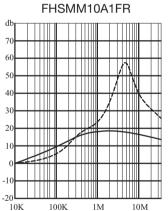
Asymmetrical (Common Mode)

Symmetrical (Differential Mode)

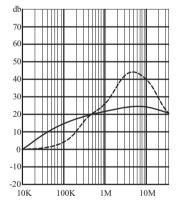




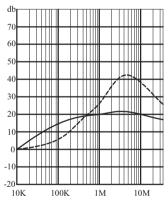




FHSMM15A2FR



FHSMM20A2FR



Safety Approvals	
Safety Agency	Sa
05	Ma

Safety Agency	Safety Standard	Notes & Conditions
CE	Meets all applicable directives	
UKCA Meets all applicable legislation		