

Chassis Mount Filter

- Chassis Mount Filter
- Single Stage Design
- Compact Design
- ITE 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

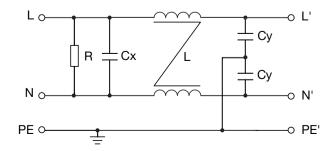


The FHSA single stage filters are housed in a compact, chassis mounting metal case, for ITE applications. Input and output connections are via 6.3×0.8 mm Faston terminals. The filter should be fitted as close as possible to the mains cable entry point to minimize any radiated emissions from the mains 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 $+110^{\circ}$ C with full power operation up to $+50^{\circ}$ C.

		ns

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	0.3		0.6	mA	See models and ratings table	
MTBF	2.2			MHrs	MIL-HDBK 217F, 230 VAC at 40°C	
Flammability Rating	UL94V-2					
Temperature Operating	-40		110	°C	See derating curve	
Cofety Approvals	EN60939-2			Passive filter units for EMI suppression		
Safety Approvals	ANSI/UL1283	3		Electromagnetic Interference Filters		
Terminals	Faston 6.3 x 0.8mm straight					
Protection Class	Suitable for a					
Dielectric Strength		1500		VAC		

Electrical Schematic



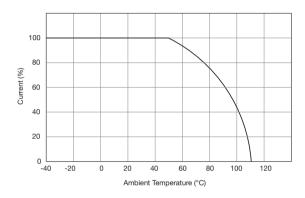




Models & Ratings

Rated	Leakage	current	Inductance	Capacitance		Resistance	Weight	Application	Mounting	Filter
current	115VAC/60Hz	250VAC/50Hz	at 10 kHz, 0.25 V	Сх	Су	riesistance	weight	Application	wounting	i iitei
1 A	0.3 mA	0.6 mA	2 x 10 mH	0.1 μF	2 x 3.3 nF	1 ΜΩ	37g	ITE	Chassis	FHSAA01A1FR
3 A	0.3 mA	0.6 mA	2 x 1.2 mH	0.1 μF	2 x 3.3 nF	1 ΜΩ	37g	ITE	Chassis	FHSAA03A1FR
6 A	0.3 mA	0.6 mA	2 x 0.8 mH	0.1 μF	2 x 3.3 nF	1 ΜΩ	43g	ITE	Chassis	FHSAA06A1FR
10 A	0.3 mA	0.6 mA	2 x 0.3 mH	0.1 μF	2 x 3.3 nF	1 ΜΩ	43g	ITE	Chassis	FHSAA10A1FR
15 A	0.3 mA	0.6 mA	2 x 0.8 mH	0.1 μF	2 x 3.3 nF	1 ΜΩ	99g	ITE	Chassis	FHSAA15A2FR
20 A	0.3 mA	0.6 mA	2 x 0.6 mH	0.1 μF	2 x 3.3 nF	1 ΜΩ	94g	ITE	Chassis	FHSAA20A2FR

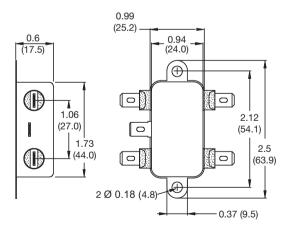
Thermal Derating



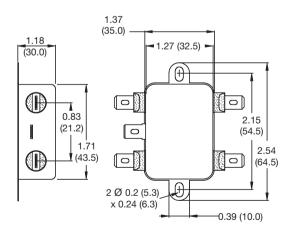
Mechanical Details

All dimensions in inches (mm)

FHSAAxxA1FR



FHSAAxxA2FR





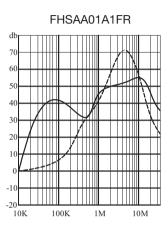


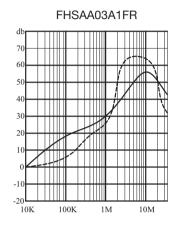
Typical Attenuation Curves

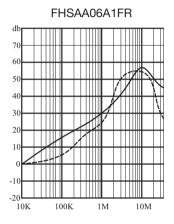
Per CISPR 17, 50 Ω system

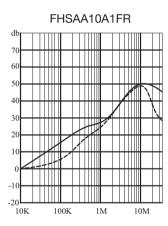
Asymmetrical (Common Mode)

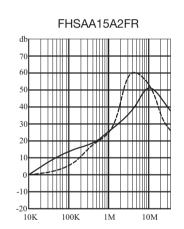
Symmetrical (Differential Mode)

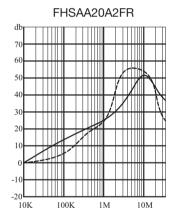












Safety Approvals

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