FHSA

XP Power

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

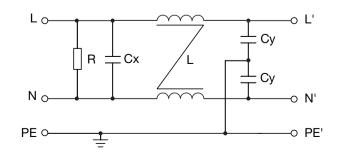


EMI Filter

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 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	A	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			1				
Temperature Operating	-40		110	°C	See derating curve			
O of other Annual second	EN60939-2			Passive filter units for EMI suppression				
Safety Approvals	ANSI/UL1283			Electromagnetic Interference Filters				
Terminals	Faston 6.3 x 0	Faston 6.3 x 0.8mm straight						
Protection Class	Suitable for ap	Suitable for appliances with protection Class I						
Dielectric Strength		1500		VAC				

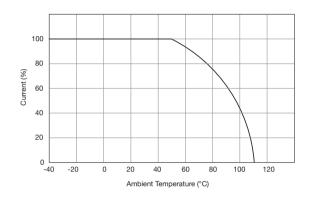
Electrical Schematic



Models & Ratings

Rated Leakage current		Inductance Capac		tance Resistance		Weight	Application	Mounting	Filter	
current	115VAC/60Hz	250VAC/50Hz	at 10 kHz, 0.25 V	Сх	Су	nesistance	weight	Application	wounting	Filter
1 A	0.3 mA	0.6 mA	2 x 10 mH	0.1 µF	2 x 3.3 nF	1 MΩ	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 MΩ	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 MΩ	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 MΩ	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 MΩ	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 MΩ	94g	ITE	Chassis	FHSAA20A2FR

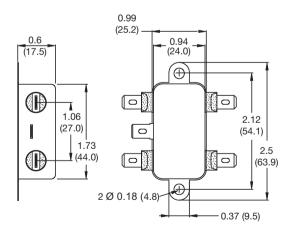
Thermal Derating



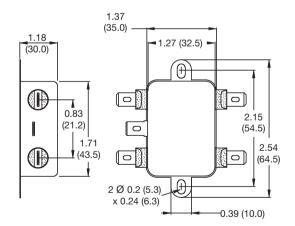
Mechanical Details

All dimensions in inches (mm)

FHSAAxxA1FR



FHSAAxxA2FR



FHSA



Typical Attenuation Curves

Per CISPR 17, 50 Ω system

60

50

40

30

10

-10 -20

10K

100K

Asymmetrical (Common Mode)

Symmetrical (Differential Mode)

FHSAA01A1FR db 70 Ш 20

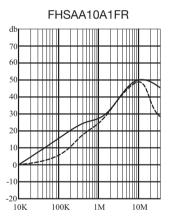
1M

10M

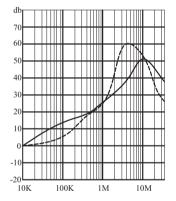
dh 70 60 50 4(30 20 1(-20 10K 100K 1M10M

FHSAA03A1FR

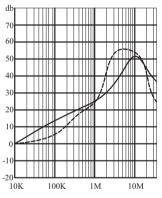
FHSAA06A1FR dh 70 60 50 4(V 3(20 10 -20 10K 100K 1M10M



FHSAA15A2FR







Safety Standard	Notes & Conditions
Meets all applicable directives	
Meets all applicable legislation	
	Meets all applicable directives