

Chassis Mount Filter

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



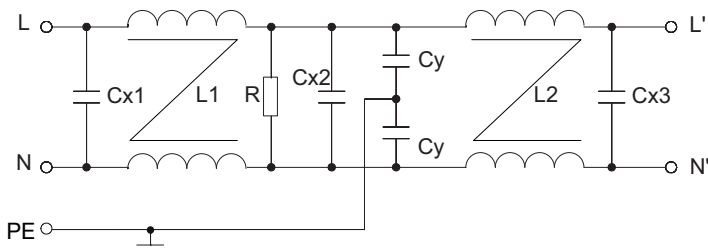
The FIHAM high attenuation dual stage filters are housed in a compact, chassis mounting metal case, there are versions for ITE (FIHAxxCxFR), or medical applications (FIHMAxxCxFR) with a low 5µA @250VAC earth leakage. Input and output connections are via 6.3 x 0.8mm Faston terminals. The filter should 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

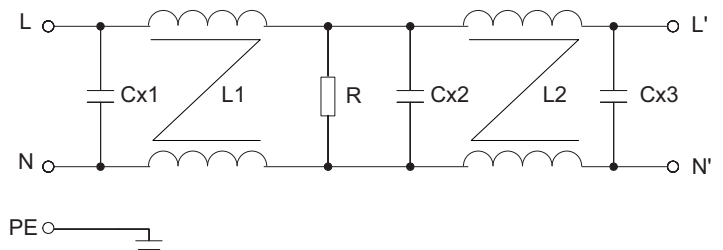
Characteristics	Minimum	Typical	Maximum	Units	Notes and Conditions
Input Voltage	0	115/230	264	VAC	
Input Frequency	DC		400	Hz	
Rated Current	1		20	A	See models and ratings table
Earth Leakage Current	0.3		0.6	mA	ITE versions, see models and ratings table
	2		5	µA	Medical versions, see models and ratings table
MTBF	2.2			MHrs	MIL-STD 217F
Flammability Rating	UL94V-2				
Temperature Operating	-40		110	°C	See derating curve
Safety Approvals	EN60939-2				Passive filter units for EMI suppression
	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

ITE Applications



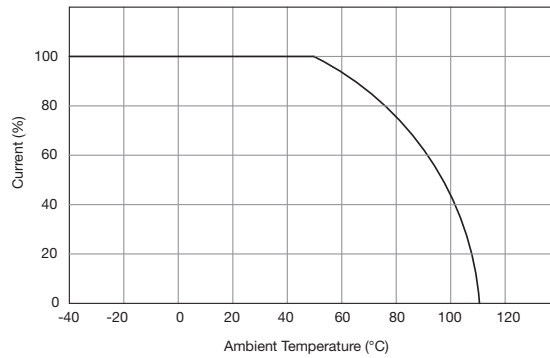
Medical Applications



Models & Ratings

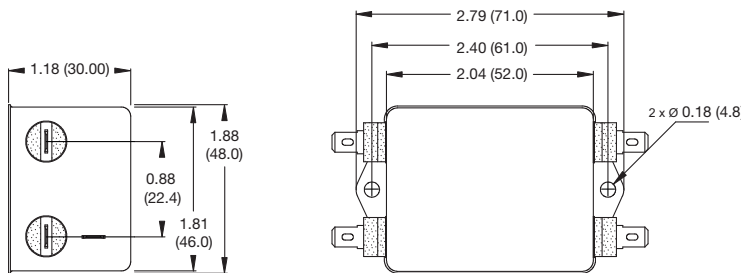
Rated current	Leakage current		Inductance L1	Inductance L2	Capacitance				Resistance	Weight	Application	Mounting	Filter
	115VAC/60Hz	250VAC/50Hz	@10kHz, 0.25V	@10kHz, 0.25V	Cx1	Cx2	Cx3	Cy					
1A	0.3mA	0.6mA	2 x 7.4mH	2 x 7.4mH	0.3µF	0.3µF	0.3µF	6.6nF	2.2MΩ	122g	ITE	Chassis	FIHAA01C1F
3A	0.3mA	0.6mA	2 x 3.6mH	2 x 3.6mH	0.3µF	0.3µF	0.3µF	6.6nF	2.2MΩ	122g	ITE	Chassis	FIHAA03C1F
6A	0.3mA	0.6mA	2 x 1.4mH	2 x 1.4mH	0.3µF	0.3µF	0.3µF	6.6nF	2.2MΩ	125g	ITE	Chassis	FIHAA06C1F
10A	0.3mA	0.6mA	2 x 2.0mH	2 x 2.0mH	0.3µF	0.3µF	0.3µF	6.6nF	2.2MΩ	126g	ITE	Chassis	FIHAA10C1F
15A	0.3mA	0.6mA	2 x 1.8mH	2 x 1.8mH	0.3µF	0.3µF	0.3µF	6.6nF	2.2MΩ	130g	ITE	Chassis	FIHAA15C2F
20A	0.3mA	0.6mA	2 x 1.0mH	2 x 1.0mH	0.3µF	0.3µF	0.3µF	6.6nF	2.2MΩ	130g	ITE	Chassis	FIHAA20C2F
1A	2uA	5uA	2 x 7.4mH	2 x 7.4mH	0.3µF	0.3µF	0.3µF	None	2.2MΩ	121g	Medical	Chassis	FIHMA01C1F
3A	2uA	5uA	2 x 3.6mH	2 x 3.6mH	0.3µF	0.3µF	0.3µF	None	2.2MΩ	121g	Medical	Chassis	FIHMA03C1F
6A	2uA	5uA	2 x 1.4mH	2 x 1.4mH	0.3µF	0.3µF	0.3µF	None	2.2MΩ	124g	Medical	Chassis	FIHMA06C1F
10A	2uA	5uA	2 x 2.0mH	2 x 2.0mH	0.3µF	0.3µF	0.3µF	None	2.2MΩ	125g	Medical	Chassis	FIHMA10C1F
15A	2uA	5uA	2 x 1.8mH	2 x 1.8mH	0.3µF	0.3µF	0.3µF	None	2.2MΩ	130g	Medical	Chassis	FIHMA15C2F
20A	2uA	5uA	2 x 1.0mH	2 x 1.0mH	0.3µF	0.3µF	0.3µF	None	2.2MΩ	130g	Medical	Chassis	FIHMA20C2F

Thermal Derating

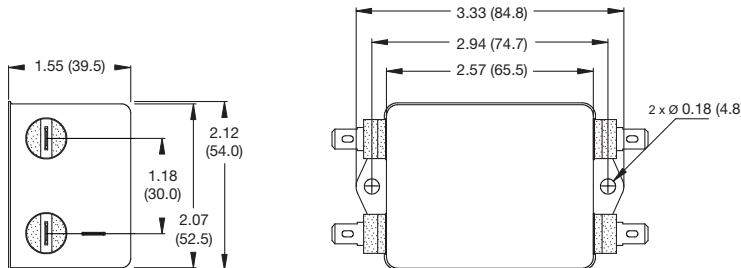


Mechanical Details

FIHxxC1F



FIHxxC2F



Typical Attenuation Curves

Per CISPR 17, 50 Ω system

———— Asymmetrical (Common Mode)

- - - - - Symmetrical (Differential Mode)

