Power Feed Through Filters

F.LL.CC series

Power feed through capacitor filters enable a consistently high frequency performance to be combined with high current capability, compact mechanical enclosures and terminations which suit use in many industrial applications such as Telecommunications, Medical equipment and DC power systems.

These filters are mechanically robust to withstand use under normal high current applications and yet sufficiently compact to enable system integration.

Under AC use consideration must be given to the leakage current caused by the capacitance value in order to ensure compliance with equipment safety specifications. Likewise under AC or DC use the safe discharge after use must be considered because of the substantial energy which can be stored.

The construction is designed so that multiple high frequency resonances are minimised and hence the performance is maintained over the operating frequency range. These products avoid this weakness so often demonstrated in many commercially available products.

The dielectric construction of the capacitor elements means that they have high level voltage withstand capability and can cope with rapid transients.

These products are fully encapsulated in a flame retardant V0 to UL 94 polyurethane resin system.



Mechanical Specifications

Manufacture:	metal case sealed with plastic cover; Mounted via
	bracket (025A.015.I0 & 025A.055.I0) Or metric nut
	(see table for sizes).

Connections: threaded bar with metric nut - see table for sizes.

Electrical Specifications

Rated voltage (V _R):	see table
Rated current (IR):	referred to room temperature = $40^{\circ}C$
Voltage test (2s.):	see table
Climatic category:	GPC (40/085/56);
	Temperature range: -40°C to +85°C

Filter	Range	- F.L	L.CC.
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(example pt no. - F.LL.CC.025A.015.I0)

Code	Max values C			Voltage	Dimensions (mm)					Dia	Insertion
	R	V.R		test						loss	
	dc	dc/ac	(uF)	(dc)	Α	В	С	D	т	d	graph
025A.015.I0	25	100/-	0.1	250	N/A	46	57	25.4	N/A	M5	Plot 1
025A.055.10	25	100/-	0.5	250	N/A	46	57	25.4	N/A	M5	Plot 2
075A.400.10	75	-/250	4	1200	13	45	99	30	M20x1	M6	Plot 5
100A.015.I9	100	100/-	0.1	500	13	45	111	30	M20x1	M8	Plot 1
200A.016.I2H	200	1000/-	1	2500	15	31	93	55	M27x1.5	M8	Plot 3
200A.036.I0	200	60/-	3	500	12	36	99.5	38	M20x1	M10	Plot 4
300A.055.I1	300	750/-	0.5	3950	15	50	152	55	M32x1.5	M12	Plot 2
500A.055.l1	500	750/-	0.5	3950	15	80	220	55	M32x1.5	M20	Plot 2
800A.055.l1	800	750/-	0.5	3950	15	80	250	55	M36x1.5	M25	Plot 2



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Circuit diagram



Typical Insertion Loss Characteristics

