

Overview

Power feed-through capacitors enable a consistently high frequency performance to be combined with high current capability. They have compact mechanical enclosures and terminations which suit the use in many industrial applications such as Telecommunications, Medical equipment and DC power systems. These capacitors are mechanically robust to withstand use in 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 comply with equipment safety specifications. Under both AC and DC usage a safe discharge after use must be considered because of the substantial energy which can be stored. These capacitors are designed so that multiple high frequency resonances are minimized and hence the performance is maintained over the operating frequency range. The dielectric design of the capacitor elements enables high level of voltage withstand capability and handling of high transients. These products are fully encapsulated in a UL-94 V0 polyurethane resin system.

Applications

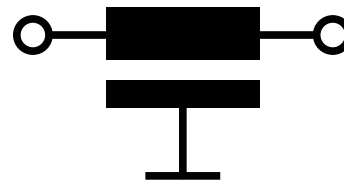
Particularly suitable for use in screened rooms, medical equipment, power supplies, high frequency welding equipment, and telecom systems.



Technical Specifications

Item	Parameters/ Characteristics
Rated Voltage	250 VAC 100 – 1,000 VDC
Rated Frequency	50 – 60 Hz
Rated Current	25 – 800 A
Rated Temperature	40°C
Temperature Range	-40°C to 85°C
Climate Category	40/085/56
Voltage Test	250 – 3,950 VDC

Typical Electrical Schematic



Technical Specifications cont.

Part Number	Rated Current at 40°C (A)	Rated Voltage (VAC/VDC)	C (μF)	Volt Test (VDC)	UL
FLLCC025A015I0	25	-/100	0.1	250	
FLLCC025A055I0	25	-/100	0.5	250	
FLLCC075A400I0	75	250/-	4.0	1,200	
FLLCC100A015I9	100	-/100	0.1	500	α
FLLCC200A016I2H	200	-/1,000	1.0	2,500	
FLLCC200A036I0	200	-/60	3.0	500	
FLLCC300A055I1	300	-/750	0.5	3,950	
FLLCC500A055I1	500	-/750	0.5	3,950	
FLLCC800A055I1	800	-/750	0.5	3,950	

α UL approval

Approvals

Standard	Certification Body	File Number
UL 1283, 5 th Edition	UL	E192374

Environmental Compliance

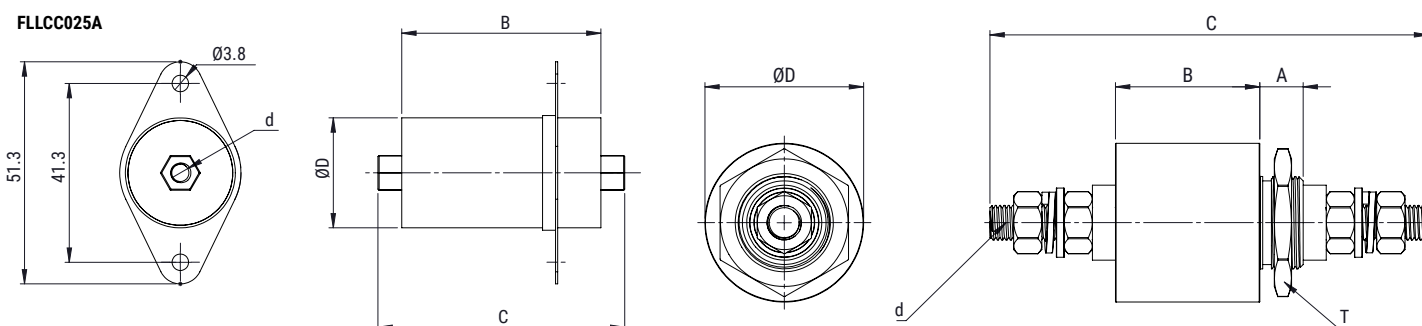
KEMET EMI filters are RoHS Compliant.



Typical Insertion Loss

Part Number	0.01 MHz (dB)	0.1 MHz (dB)	1 MHz (dB)	10 MHz (dB)	100 MHz (dB)
FLLCC025A015I0	-	5	22	39	66
FLLCC025A055I0	6	20	38	54	60
FLLCC075A400I0	15	38	55	66	72
FLLCC100A015I9	-	5	22	39	66
FLLCC200A016I2H	3	25	45	50	73
FLLCC200A036I0	11	35	53	63	71
FLLCC300A055I1	6	20	38	54	60
FLLCC500A055I1	6	20	38	54	60
FLLCC800A055I1	6	20	38	54	60

Mechanical Dimensions – Millimeters



Part Number	Dimensions (mm)					
	A	B	C	D	D1	F
FLLCC025A015I0	N/A	46	57	25.4	N/A	M5
FLLCC025A055I0	N/A	46	57	25.4	N/A	M5
FLLCC075A400I0	13	45	99	30	M20x1	M6
FLLCC100A015I9	13	45	111	30	M20x1	M8
FLLCC200A016I2H	15	31	93	55	M27x1.5	M8
FLLCC200A036I0	12	36	100	38	M20x1	M10
FLLCC300A055I1	15	50	152	55	M32x1.5	M12
FLLCC500A055I1	15	80	220	55	M32x1.5	M20
FLLCC800A055I1	15	80	250	55	M32x1.5	M25

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