

EMC Feedthrough Filtering Capacitor

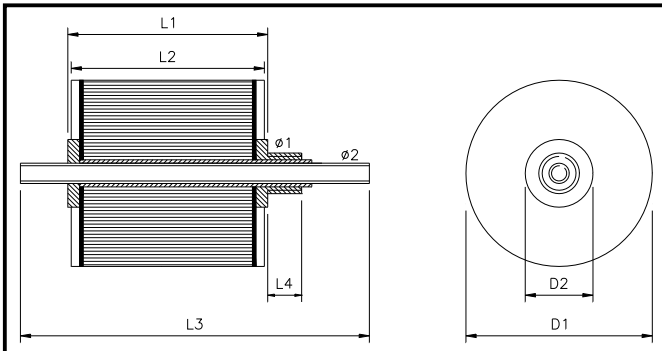
FT Range

The 5FT range of capacitors has been designed to offer electronic circuit designers and EMC engineers a compact flexible feedthrough filtering capacitor for applications requiring 25-225A. A 240Vac range is detailed below. Similar components specified for operation at alternate voltages are available on request. Higher current ratings are available through the use of copper feed through rods.

Technical Details

Capacitance Range:	1 - 40 μ F
Tolerance:	\pm 10%, other tolerances available on request
Dissipation Factor:	\leq 0.001 at 1kHz & 20 \pm 3 $^{\circ}$ C
Insulation Resistance:	\geq 10,000 M Ω - μ F @ 400 Vdc & 20 \pm 3 $^{\circ}$ C
Rated Voltage:	240Vac (non ionising operation) Alternate voltages available on request
Temperature Range:	-55 to + 85 $^{\circ}$ C
Environmental Category:	55/85/56 to EN60068-1 (IEC68-1)
Proof Test Voltage:	1.25 x rated voltage for 30s. Not to be repeated.
Feedthrough RMS Current Rating	See table below
Recommended Tightening Torque	Feed through rod: M5 6Nm, M6 8Nm, M8 12Nm, M10 16Nm Coaxial bush: M10 10Nm, M12 12Nm, M16 16Nm

Component Outline



Component Diameter

Φ 2	Style A - D1 (mm)				Style B - D1 (mm)			
	M5	M6	M8	M10	M5	M6	M8	M10
1 μ F	28							
2 μ F	39	40	41	41				
3 μ F	48	48	49	49	32	32	33	
4 μ F	55	56	56	56	37	37	38	
5 μ F	62	62	63	63	41	41	42	42
6 μ F	68	68	68	68	45	45	46	46
7 μ F	73	73	74	74	48	48	49	49
8 μ F	78	78	79	79	52	52	53	53
9 μ F	83	83	83	83	55	55	56	56
10 μ F	87	87	88	88	58	58	58	58
15 μ F					70	71	71	71
20 μ F					81	81	82	82

Φ 2	Style C - D1 (mm)				Style D - D1 (mm)			
	M5	M6	M8	M10	M5	M6	M8	M10
4 μ F	31							
5 μ F	35	35			28			
6 μ F	38	38			31			
7 μ F	41	41	42	42	33	34		
8 μ F	44	44	45	45	36	36		
9 μ F	46	47	47	47	38	38		
10 μ F	49	49	50	50	40	40	41	41
15 μ F	60	60	60	60	48	49	49	49
20 μ F	69	69	69	69	56	56	57	57
25 μ F	77	77	77	77	62	62	63	63
30 μ F	84	84	85	85	68	68	69	69
35 μ F					74	74	74	74
40 μ F					79	79	79	79
45 μ F					83	84	84	84
50 μ F					88	88	89	89

* D1 represents nominal diameter please allow +10% when mounting capacitors close to other components

Ordering Details

5FT 5 μ K 240Vac - A

dFT Feedthrough rod Φ 2(5=M5, 6=M6, 8=M8, 10=M10)
 5 μ Capacitance in μ F K Tolerance
 240Vac Rated voltage A Style