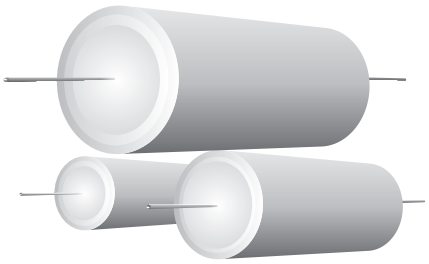
FF-06 Axial Type



Highlights

- Low Tanδ
- High DV/DT
- Low ESR
- Low self inductance

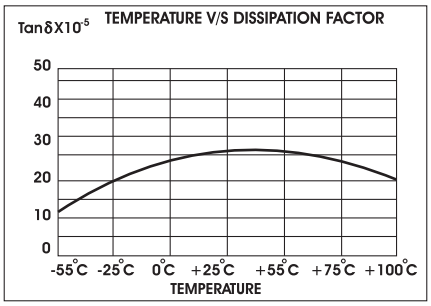
Applications

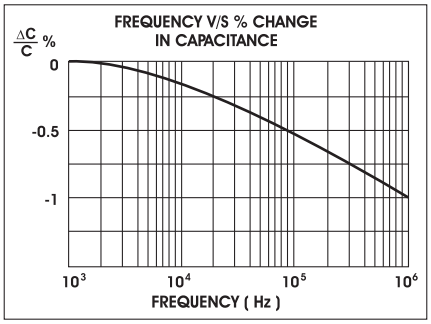
These capacitors are used in :

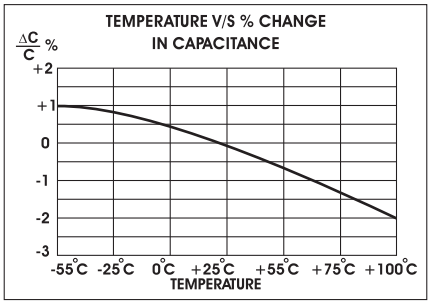
- General purpose RC networks across diodes, SCRs and MOSFETS
- Switching circuits as noise suppressors
- Electronic ballasts

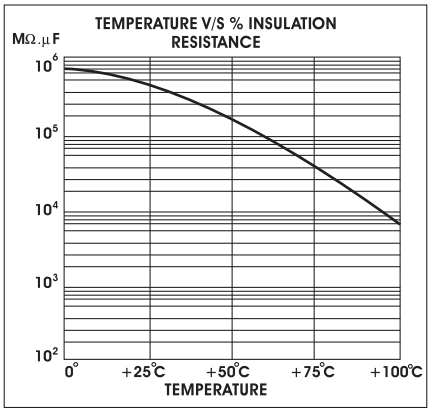
Construction

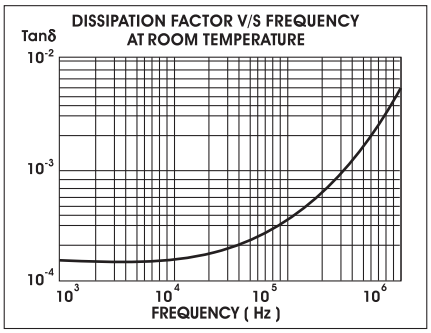












ALCON ELECTRONICS PRIVATE LIMITED
Registered by UL to ISO 9001

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Phone: +91 253 - 235 0533, 235 0237, Fax: +91 253 - 235 1682
email: mail@alconelectronics.com Website: www.alconelectronics.com

FF-06 Axial Type

Technical Specifications

Physical Characteristics

• Dielectric material	Polypropylene film
• Electrode material	Aluminium foil
• Winding construction	Non-inductive, extended foil, impregnated
• Terminals	Tinned copper
• Enclosure	Preformed plastic case with thermosetting resin end fill

Electrical Characteristics

• Capacitance range	0.010MFD to 2.0MFD
• Capacity tolerance	±5%(J); ±10%(K); ±20%(M)
• Rated voltage VDC	630, 1000, 2000, 3000
• Rated voltage VAC	415, 660, 1200, 1200
• Test voltage between terminals	2.5 x rated voltage VDC for 2 seconds 2 x rated voltage VDC for 2 sec for 3000 VDC rated capacitors
• Dissipation factor (Tanδ)	≤ 0.001 at 1 KHz and 25°C
• Temperature range	-25°C to +85°C
• Insulation resistance at 25°C at a test voltage of 500 VDC applied for 1 minute	C≤0.33 MFD: ≥ 50,000MΩ C >0.33 MFD: ≥ 10,000 Sec
• Maximum pulse rise time	Length of capacitor(mm) : 23.0, 34.0, 42.0, 55.0 DV/DT V/μ Sec : 3000, 1500, 1000, 500

Marking on Capacitors

Each capacitor will have the following information printed on it, sequentially :

- The Company's symbol followed by the words ALCON
- The capacitor grade viz FF-06
- The capacitance value MFD
- The rated voltage VDC
- Capacity tolerance and manufacturing code
- Part number on non-standard capacitors

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FF-06 Axial Type

Standard Capacitor Values

Working voltage 630 VDC (415VAC)

Rated Capacitance MFD	Dimensions in mm*	
	D	L
0.047	12.5	23.0
0.068	15.5	23.0
0.100	15.5	23.0
0.150	17.5	34.0
0.220	17.5	34.0
0.330	19.5	42.0
0.470	19.5	42.0
0.680	22.5	55.0
1.000	22.5	55.0
1.500	31.5	55.0
2.000	31.5	55.0

Working voltage 1000 VDC (660VAC)

Rated Capacitance MFD	Dimensions in mm*	
	D	L
0.033	12.5	23.0
0.047	12.5	23.0
0.068	15.5	23.0
0.100	15.5	23.0
0.150	17.5	34.0
0.220	17.5	34.0
0.330	19.5	42.0
0.470	19.5	42.0
0.680	22.5	55.0
1.000	25.5	55.0
1.500	31.5	55.0
2.000	31.5	55.0

Working voltage 2000 VDC (1200VAC)

Rated Capacitance MFD	Dimensions in mm*	
	D	L
0.010	12.5	23.0
0.015	15.5	23.0
0.022	15.5	23.0
0.033	15.5	23.0
0.047	17.5	34.0
0.068	17.5	34.0
0.100	17.5	34.0
0.150	19.5	55.0
0.220	19.5	55.0
0.330	25.5	55.0
0.470	31.5	55.0

Working voltage 3000 VDC (1200VAC)

Rated Capacitance MFD	Dimensions in mm*	
	D	L
0.022	15.5	23.0
0.033	17.5	34.0
0.047	19.5	42.0
0.068	19.5	42.0
0.100	19.5	55.0
0.150	19.5	55.0
0.220	22.5	55.0
0.330	31.5	55.0

Custom-designed capacitors are available on request

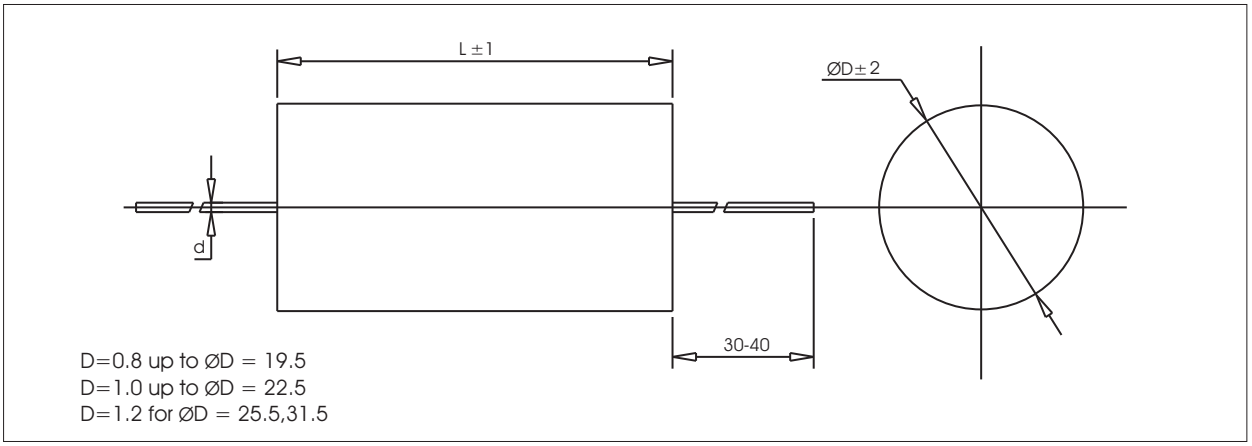
* Refer to "Capacitor Drawing"

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FF-06 Axial Type

Capacitor Drawing and Terminal Style



Dimensions in mm

Precaution

1. These capacitors are not suitable for 'across the line' applications
2. VAC (rated) : Frequency should be less than 1000Hz
3. VDC(rated) : 1.4 x Vrms + VDC should be less than rated VDC

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