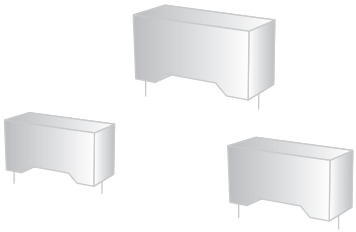
FF-12 Box Type



Highlights

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

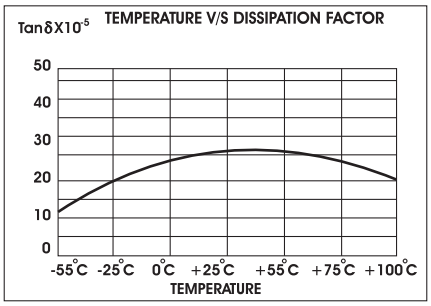
Applications

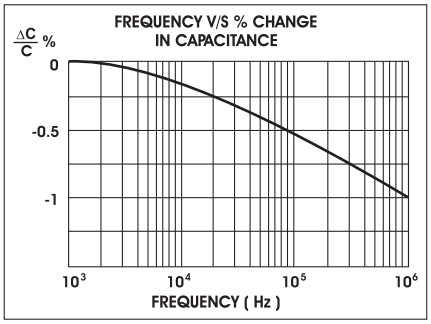
These capacitors are used in :

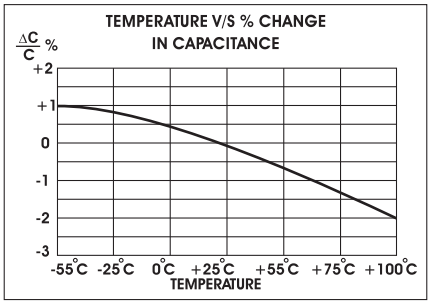
- General purpose RC networks across diodes, SCRs and MOSFETS
- Switching circuits as noise suppressors
- Electronic ballasts

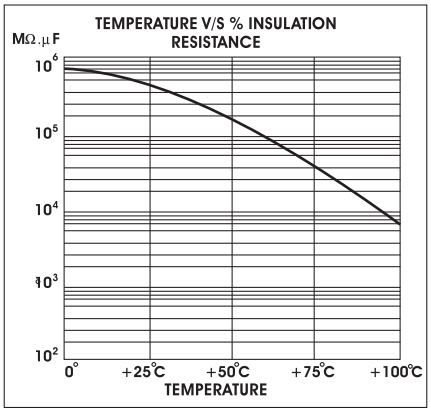
Construction

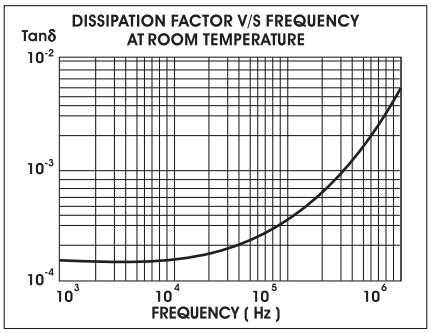












ALCON ELECTRONICS PRIVATE LIMITED
Registered by UL to ISO 9001

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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-12 Box 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 fill

Electrical Characteristics

• Capacitance range	0.001MFD to 0.22MFD
• Capacity tolerance	±5%(J); ±10%(K); ±20%(M)
• Rated voltage VDC	630, 1000, 2000
• Rated voltage VAC	415, 660, 1200
• Test voltage between terminals	2.5 x rated voltage VDC for 2 seconds
• 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	≥ 50,000 MΩ
• Maximum pulse rise time	Pitch of capacitor(mm) : 10.0, 15.0, 22.5, 27.5 DV/DT V/μ Sec : 6000, 5000, 3000, 2000

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-12
- The capacitance value MFD
- The rated voltage VDC
- Capacity tolerance and manufacturing code
- Part number on non-standard capacitors

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FF-12 Box Type

Standard Capacitor Values

Working voltage 630 VDC (415VAC)

Rated Capacitance MFD	Dimensions in mm*			
	B	H	L	P
0.0047	5.0	11.0	13.0	10.0
0.0068	5.0	11.0	13.0	10.0
0.0100	5.0	11.0	13.0	10.0
0.0150	6.0	12.0	13.0	10.0
0.0220	6.0	12.0	18.0	15.0
0.0330	7.5	13.5	18.0	15.0
0.0470	7.0	16.0	26.5	22.5
0.0680	8.5	17.0	26.5	22.5
0.1000	11.0	20.0	26.5	22.5
0.1500	11.0	20.0	32.0	27.5
0.2200	13.0	22.0	32.0	27.5

Working voltage 1000 VDC (660VAC)

Rated Capacitance MFD	Dimensions in mm*			
	B	H	L	P
0.0010	5.0	11.0	13.0	10.0
0.0015	5.0	11.0	13.0	10.0
0.0022	5.0	11.0	13.0	10.0
0.0033	5.0	11.0	13.0	10.0
0.0047	5.0	11.0	13.0	10.0
0.0068	5.0	11.0	13.0	10.0
0.0100	6.0	12.0	13.0	10.0
0.0100	6.0	12.0	18.0	15.0
0.0150	6.0	12.0	18.0	15.0
0.0220	6.0	12.0	18.0	15.0
0.0330	7.5	13.5	18.0	15.0
0.0470	7.0	16.0	26.5	22.5
0.0680	8.5	17.0	26.5	22.5
0.1000	11.0	20.0	26.5	22.5
0.1500	11.0	20.0	32.0	27.5
0.2200	13.0	22.0	32.0	27.5

Working voltage 2000 VDC (1200VAC)

Rated Capacitance MFD	Dimensions in mm*			
	B	H	L	P
0.0010	6.0	12.0	18.0	15.0
0.0015	6.0	12.0	18.0	15.0
0.0022	6.0	12.0	18.0	15.0
0.0033	6.0	12.0	18.0	15.0
0.0047	6.0	12.0	18.0	15.0
0.0068	7.0	16.0	26.5	22.5
0.0100	7.0	16.0	26.5	22.5
0.0150	8.5	17.0	26.5	22.5
0.0220	11.0	20.0	26.5	22.5

Custom-designed capacitors are available on request

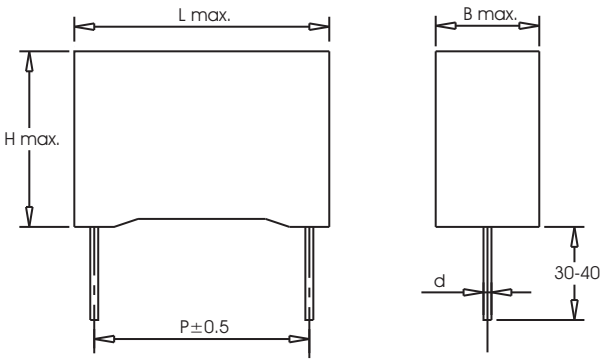
* Refer to "Capacitor Drawing"

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FF-12 Box Type

Capacitor Drawing and Terminal Style



d=0.6 for case size 5 x 11x 13
d=0.8 for all other case sizes

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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