

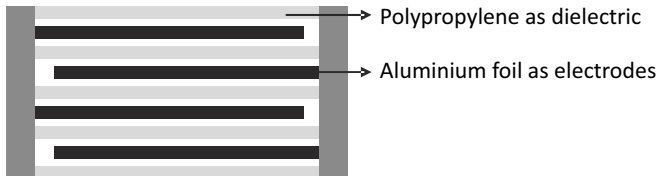
FF-12 Box Type



Highlights

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

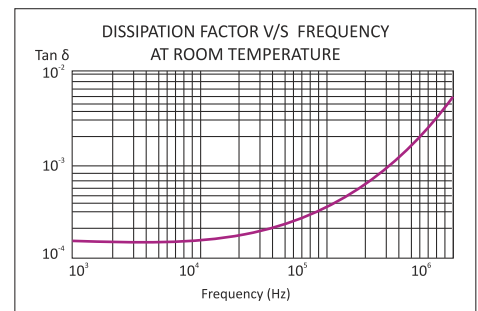
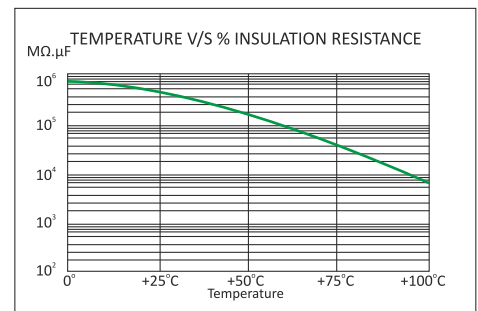
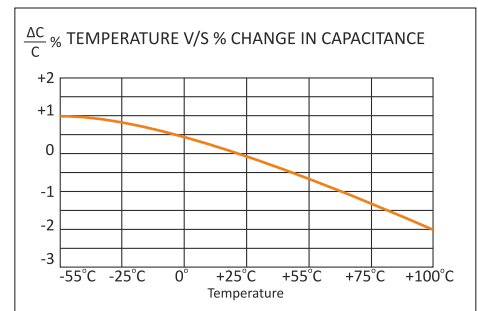
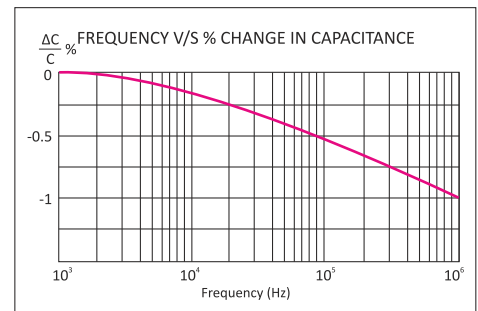
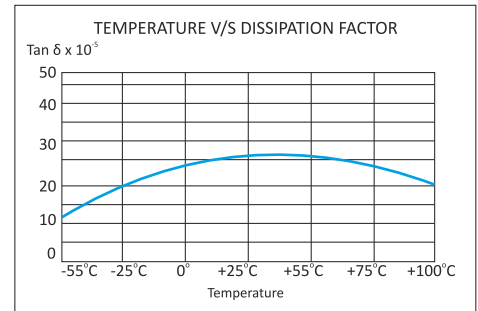
Construction



Applications

These capacitors are used in :

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



FF-12 Box Type

Technical Specifications

Physical Characteristics

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

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 VDC	415, 660, 1200
▪ Test voltage between terminals	2.5 x rated voltage VDC for 2 seconds
▪ Dissipation factor (Tan d)	≤0.0010 at 1 KHz and 25°C
▪ Temperature range	-25°C to +85°C
▪ Insulation resistance at 25°C at a test voltage of 500VDC applied for 1minute	≥50,000 MW
▪ Manimum 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 name in 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

FF-12 Box Type

Standard Capacitor Values

Working Voltage 630 VDC (415 VAC)

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	15.0
0.0220	6.0	12.0	18.0	15.0
0.0330	7.5	13.5	18.0	22.5
0.0470	7.0	16.0	26.5	22.0
0.0680	8.5	17.0	26.5	22.5
0.1000	11.0	20.0	26.5	22.0
0.1500	11.0	20.0	32.0	27.5
0.2200	13.0	22.0	32.0	27.5

Working Voltage 1000 VDC (660 VAC)

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

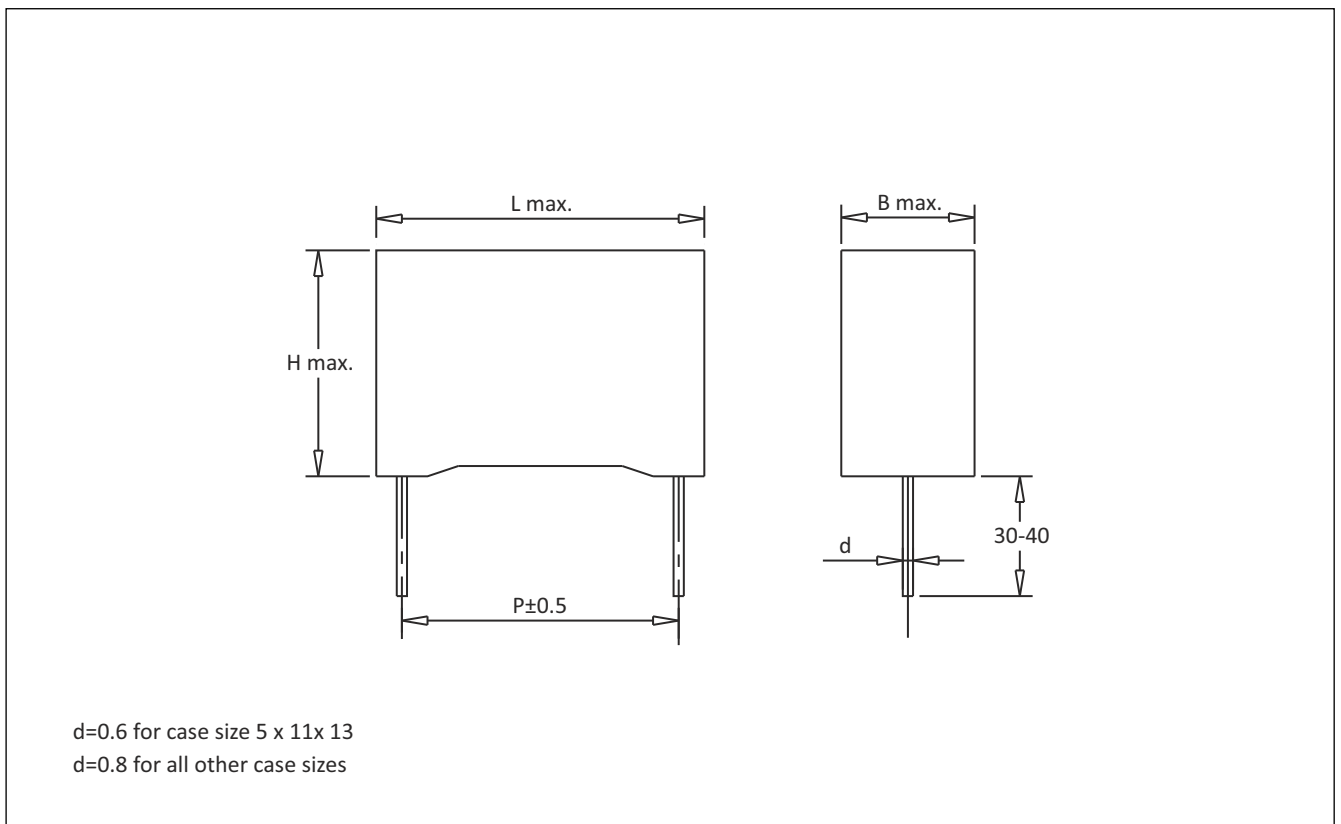
Working Voltage 2000 VDC (1200 VAC)

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" on page 4

FF-12 Box 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): $1.4 \times V_{rms} + VDC$ should be less than rated VDC