

Snubber Capacitors - Axial Leaded

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**RoHS
Compliant**

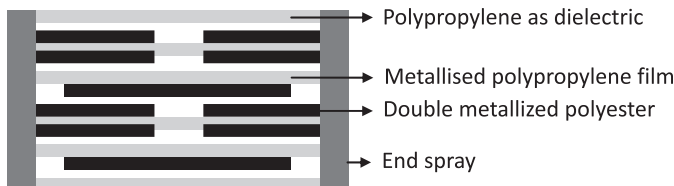


Features

- Low loss polypropylene dielectric
- High frequency & high voltage capability
- High peak current
- High DV/DT
- Low ESR
- Reference standard-IEC 61071
- Flame retardant U L94- V0

Construction

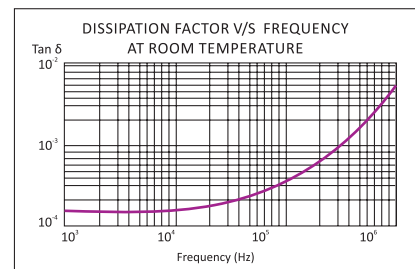
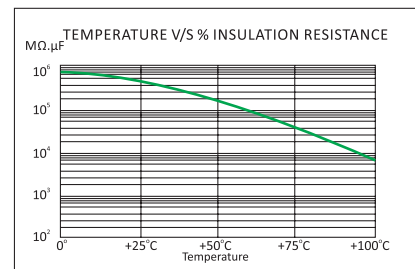
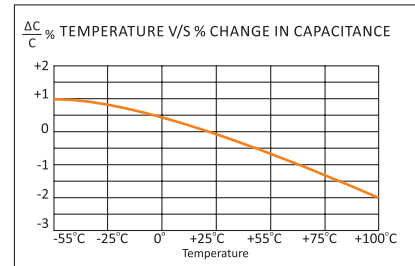
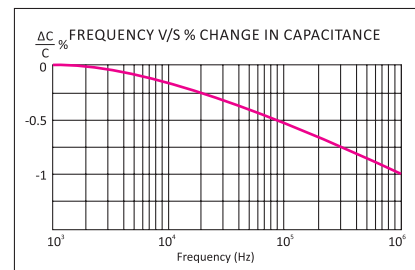
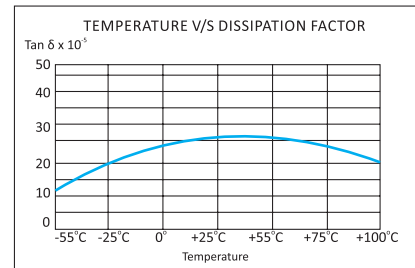
Extended double metallised polyester electrodes with metallised polypropylene dielectric internal series connection



Applications

These capacitors are used in high voltage, high current and medium to high pulse applications such as:

- Snubber circuits
- Speed control
- SMPS



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Technical Specifications

Physical Characteristics

Dielectric material	: Polypropylene film
Electrode material	: Double metallized polyester and metallized polypropylene film
Winding construction	: Extended double metallised polyester electrodes with metallised polypropylene dielectric internal series connection
Terminal	: Tinned copper
Enclosure	: UI94-VO Tape wrap with thermosetting resin end fill

Electrical Characteristics

Capacitance range	: 0.0151-!F to 51-!F
Capacity tolerance	: $\pm 5\%$ (J), $\pm 10\%$ (K)
Rated voltage V DC	: 600, 850, 1000, 1200, 1600, 2000, 2500, 3000
Rated voltage V AC	: 275,450,500,500,630,630,700,750,
Test voltage between terminals	: 2 x rated V DC for 10 sees.
Test voltage terminal to case	: 3 KV AC
Dissipation factor	: < 0.0005 at 1Khz and $+ 25^{\circ}\text{C}$
Insulation resistance	: $> 100,000 \times \text{IIF}$ at 100 VDC after 2 min
Temperature range	: -55°C to $+105^{\circ}\text{C}$ Upto $+ 85^{\circ}\text{C}$ full rated voltage can be applied. However, at $+105^{\circ}\text{C}$ only half the rated voltage can be applied.

Marking on Capacitors

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

- The Company name in words ALCON
- The capacitor grade viz MP-4A
- The capacitance value μF
- The rated voltage V DC
- Capacity tolerance and manufacturing date code
- Design reference number on non-standard capacitors

Working voltage 850 V DC (450 V AC)

Rated Capacitance μF	Dimensions in mm *				Case Code	DV/DT V/ μ Sec	I Peak Amps	Irms Max at 70°C Amps	Typical ESR at 100khz m Ω	Part Number
	Tmax	Wmax	Lmax	d						
0.22	11.5	18	34	1	BM	700	154	7	8	MP004185
0.33	14.5	20.5	34	1	BF	700	231	8.3	7	MP004187
0.47	17	23.5	34	1	BO	700	329	10.8	5	MP004189
0.68	21	27	34	1.2	BP	700	476	13.3	4	MP004192
1	17.5	27	46	1.2	BQ	400	400	12.7	5	MP004193
1.5	21.5	31	46	1.2	BR	400	600	15.8	4	MP004196

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Working Voltage 1000 V DC (500 V AC)

Rated Capacitance μF	Dimensions in mm *				Case Code	DV/DT V/ μ Sec	I Peak Amps	Irms Max at 70°C Amps	Typical ESR at 100khz m Ω	Part Number
	Tmax	Wmax	Lmax	d						
1.5	25.5	34.5	46	1.2	CB	480	720	17.4	4	MP004197
0.22	13.5	20	34	1	BW	850	187	8.2	7	MP004199
0.33	16.5	23	34	1	BX	850	280	9.6	6	MP004201
0.47	20	26.5	34	1.2	BY	850	399	11.6	5	MP004203
0.68	24	30.5	34	1.2	BZ	850	578	13.1	5	MP004209
1	20.5	30	46	1.2	CA	480	480	13.7	5	MP004237

Working voltage 1200 V DC (500 V AC)

Rated Capacitance μF	Dimensions in mm *				Case Code	DV/DT V/ μ Sec	I Peak Amps	Irms Max at 70°C Amps	Typical ESR at 100khz m Ω	Part Number
	Tmax	Wmax	Lmax	d						
0.47	17.5	27	46	1.2	BQ	650	305	10.8	7	MP004205
1	26.5	36	46	1.2	BT	650	650	15.8	5	MP004211
1.5	27.5	40	54	1.2	CE	500	750	19.6	4	MP004213
0.22	17.5	23.5	34	1	BG	1150	253	9.2	7	MP004217
0.33	14.5	24	46	1	CD	650	214	10.1	7	MP004225
0.68	21.5	31	46	1.2	BR	650	442	13.2	6	MP004232

Working Voltage 1600V DC (630V AC)

Rated Capacitance μF	Dimensions in mm *				Case Code	DV/DT V/ μ Sec	I Peak Amps	Irms Max at 70°C Amps	Typical ESR at 100khz m Ω	Part Number
	Tmax	Wmax	Lmax	d						
0.15	17.5	24	34	1	CF	1400	210	11.2	5	MP004215
0.22	21.5	28	34	1.2	CG	1400	308	10.2	7	MP004219
0.33	18	27.5	46	1.2	BI	800	264	11.1	7	MP004223
0.47	22	31.5	46	1.2	CH	800	376	13.2	6	MP004230
0.68	27	36	46	1.2	CI	800	544	14.4	6	MP004233
1	33	43.2	46	1.2	CJ	800	800	17.8	5	MP004239

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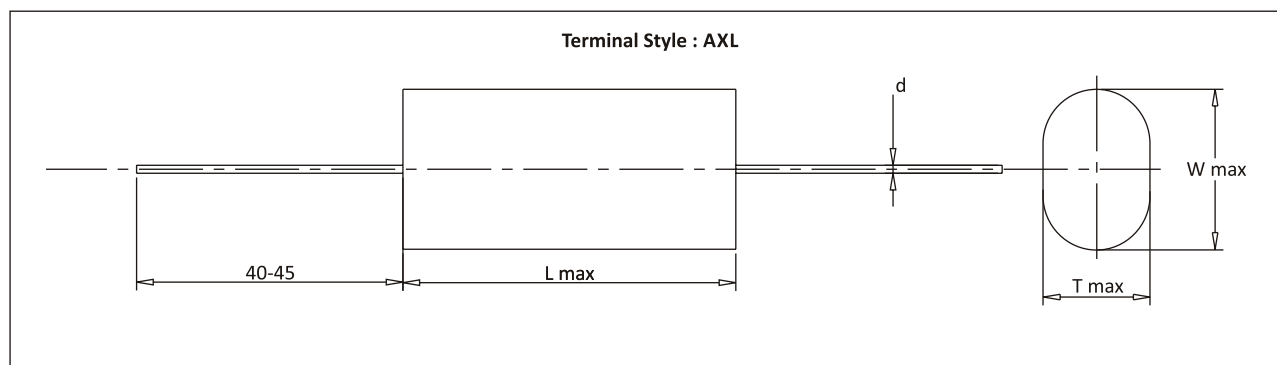
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Working voltage 2000 V DC (630 V AC)

Rated Capacitance μF	Dimensions in mm *				Case Code	DV/DT V/ μ Sec	I Peak Amps	Irms Max at 70°C Amps	Typical ESR at 100kHz m Ω	Part Number
	Tmax	Wmax	Lmax	d						
0.47	26	35.5	46	1.2	CN	950	446	14.5	6	MP004207
0.22	17.5	26.5	46	1	CM	950	209	10.2	8	MP004221
0.33	21.5	31	46	1.2	BR	950	313	11.2	8	MP004227
0.68	26.6	39.2	54	1.2	CP	750	510	15.8	6	MP004235
1	33	45.5	54	1.2	CQ	750	750	19.5	5	MP004241

Capacitor Drawing and TerminalStyle



Dimensions : Millimetres

Precaution

1. These capacitors are not suitable for 'across the line' applications
2. V AC {rated}:Frequency should be less than 1000Hz
3. V DC{rated): $1.4 \times V_{rms} + V_{DC}$ should be less than rated V DC
4. MAX ESR =Typical ESR +30%

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