

RoHS
Compliant



Features

- Self-healing property
- High DV/DT
- Low ESR
- Low loss polypropylene dielectric
- Reference standard-IEC 61071
- Flame retardant UL94- V0

Applications

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

- IGBT protection circuits
- Snubber networks
- Energy conversion and control in power electronics
- Protection circuits in SMPS

Specifications

Electrical

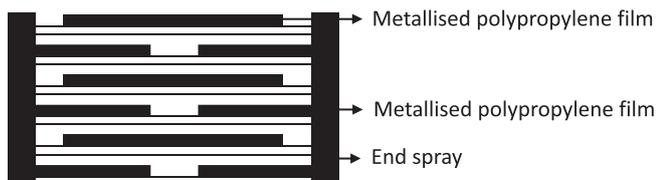
Capacitance Range	: 0.1 MFD to 2 MFD
Capacity Tolerance	: $\pm 5\%$ (J), $\pm 10\%$ (K)
Rated Voltage (V DC)	: 600,700,1000,1200,1500,2000,2500
Test Voltage Between Terminals	: $1.5 \times$ Rated Voltage V DC for 2 seconds
Test Voltage Terminal to Case	: 3KV AC at 50Hz for 60 seconds
Dissipation Factor (Tan d)	: ≤ 0.0005 at 1kHz and 25°C
Temperature Range	: -40°C to +105°C
Insulation resistance at 25°C & at a test Voltage of 500V DC applied for 1 minute	: C \leq 0.33 MFD $\geq 100,000\text{M}\Omega$: C $>$ 0.33 MFD $\geq 30,000\text{M}\Omega$

Physical

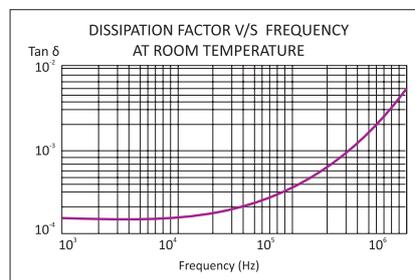
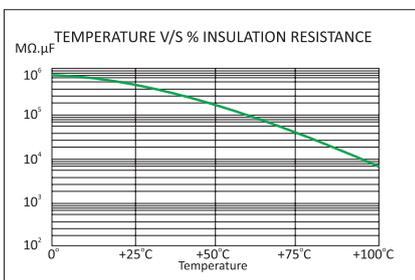
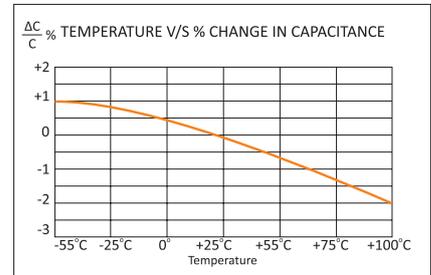
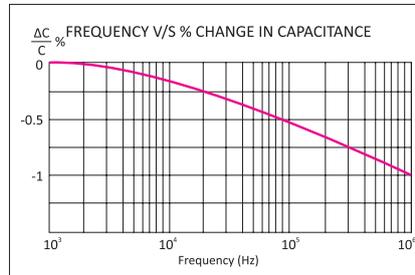
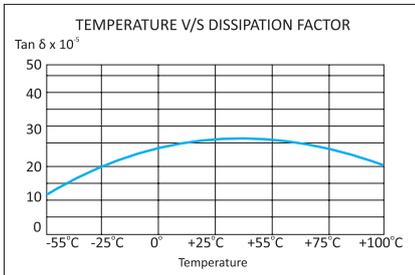
Dielectric Material	: Polypropylene Film
Electrode Material	: Metallized Polypropylene Film
Winding Construction	: Metallised polypropylene dielectric internal series connection
Enclosure	: Preformed UL 94 V-0 plastic case with thermosetting resin-fill

Construction

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



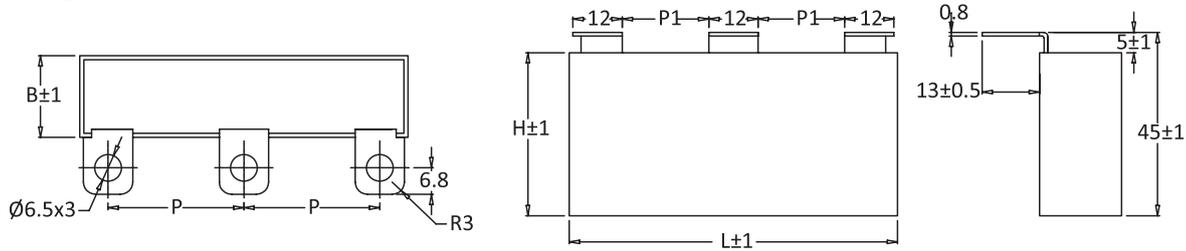
Characteristics Curves



Specification Table

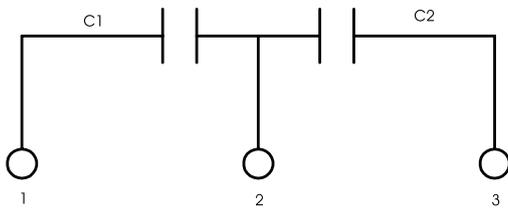
Part Number	Rated Capacitance MFD	Rated DC Voltage	Rated AC Voltage	Case Code	Case Size			DV/DT V/μ Sec.	I Peak Amps	Irms Max. at 100kHz & 70°C Amps	Typical ESR at 100kHz mΩ
					B	H	L				
MP008363	0.1 +0.1	2500	700	H11	20	40	80	828	83	14	10
MP008364	0.15 +0.15	2500	700		20	40	80	828	124	15	7.2
MP008365	0.22 +0.22	2000	600		20	40	80	828	182	16	5.1
MP008366	0.33 +0.33	2000	600		20	40	80	828	273	17	4.1
MP008367	0.47 +0.47	1500	500		20	40	80	828	389	18	3.7
MP008368	0.68 +0.68	1200	400		20	40	80	828	563	19	3.3
MP008369	0.82 +0.82	1200	400		20	40	80	828	679	19	3.1
MP008370	1 +1	1000	350		20	40	80	828	828	20	3
MP008371	1.2 +1.2	1000	350		20	40	80	828	994	20	2.8
MP008372	1.5 +1.5	700	250		20	40	80	828	1242	21	2.7
MP008373	1.75 +1.75	700	250		20	40	80	828	1449	22	2.5
MP008480	2 +2	600	200		20	40	80	828	1656	24	2.4

Diagram



P- 33.0 mm
P1- 21.0 mm

Circuit Symbol



Dimensions : Millimetres

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