

Metallized Polypropylene Power Capacitors

PPMJC - 4

Applications

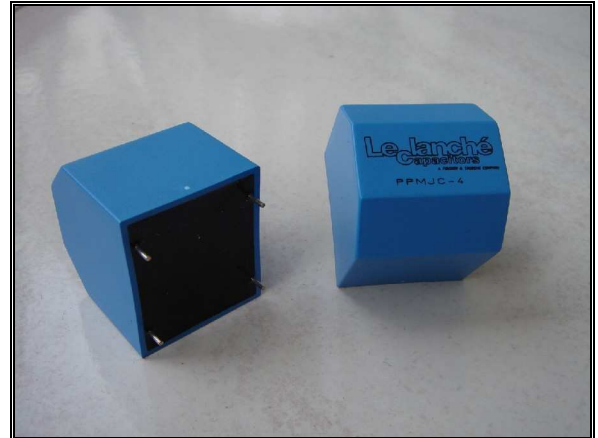
- DC Filtering
- Power Electronics
- High Vibration

Main Characteristics

- Self-healing
- Suitable for use up to 105°C
- Printed circuit board mounting

Design

- Self-extinguishing plastic case epoxy sealed (UL94-V0)



1.0 Rated Values and Operational Data

Climatic category	40/105/56 (IEC 60068)
Test voltage between terminals at 25°C	1.5 x U _n dc during 10s
Test voltage between terminals and case at 25°C	at 4 kVrms and 50 Hz, 1 min
Insulation resistance Ri x C	> 20'000 s. / 100 VDC / 1 min
Stray inductance ESL	≤ 15 nH
Weight	approx 65 g

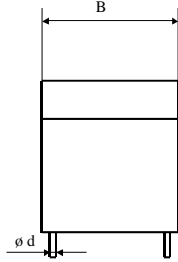
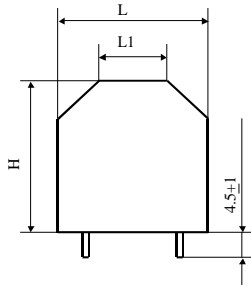
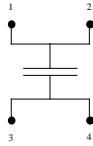
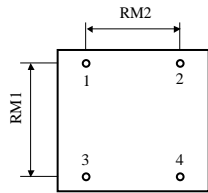
2.0 Capacitance Range

C _n ⇒	8 µF	12 µF	14 µF	17 µF	20 µF	25 µF	35 µF
600 VDC							
700 VDC							
800 VDC							
900 VDC							
1000 VDC							
1100 VDC							
1250 VDC							

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3.0 Dimensions :



Width	B	36 mm
Length	L	40 mm
	L1	18 mm
Height	H	40 mm
Tinned wire	ø d	1.2 mm
RM1		30 mm
RM2		25 mm

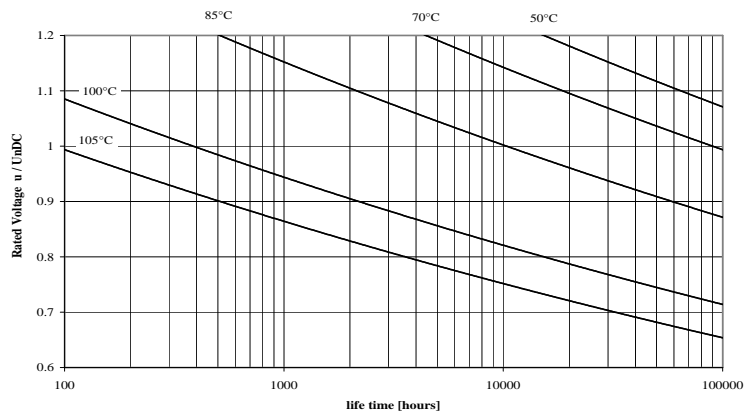
Pos.	Type	Cn [µF]	Un DC [VDC]	Un AC [Veff]	dU/ dt [V/µs]	I RMS max. 10 to 100 kHz [Aeff]	ESR 10 kHz [mOhm]
1	PPMJC-4 60-35 g	35.0	600	105	39	26	3.21
2	PPMJC-4 70-25 g	25.0	700	120	45	24	3.85
3	PPMJC-4 80-20 g	20.0	800	135	51	23	4.24
4	PPMJC-4 90-17 g	17.0	900	150	57	22	4.49
5	PPMJC-4 100-14 g	14.0	1000	165	64	21	4.93
6	PPMJC-4 110-12 g	12.0	1100	180	70	21	5.26
7	PPMJC-4 125-8 g	8.0	1250	210	83	18	6.69

Other voltages, capacitances on request

3.0 Operational limits

Calculate the maximum operating (hot spot) temperature :
 $\theta_{\text{hot spot}} = \theta_{\text{ambient}} + 16.7 \times (\text{ESR} \times I_{\text{rms}}^2)$
 where θ in °C / ESR in ohm / Irms in Amps

LIFETIME VS HOT SPOT TEMPERATURE AND RATED VOLTAGE



Leclanché Capacitors for Critical Applications and Extreme Environments.

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