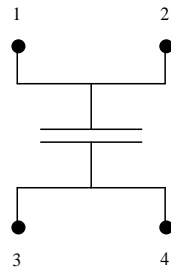
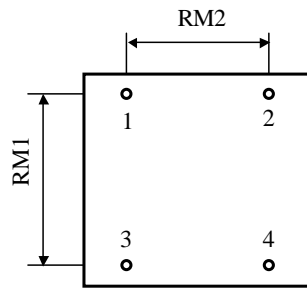


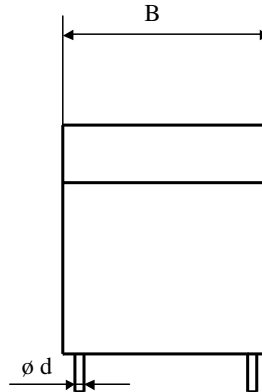
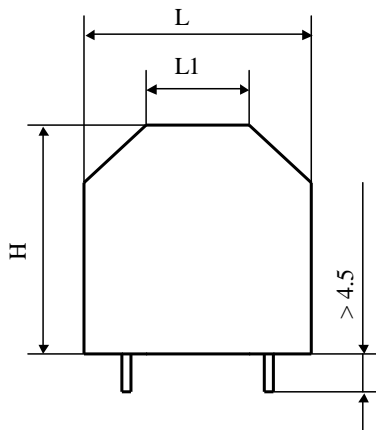
#5840

METALLIZED POLYPROPYLENE CAPACITORS

PPMJC-4 90-4.0 g K



Printed circuit board mounting



Self-extinguishing plastic housing

Epoxy resin sealing

Parameter	Symbol	Value	Unit	Condition
Capacitance	C	4	μF	1 V / 1 kHz
Tolerance		± 10	%	
Rated voltage	Un DC	900	VDC	
Rated voltage	Un AC	300	Veff	50 Hz to 1 kHz
RMS current	I RMS max.	21	Aeff	10 kHz to 100 kHz
slope of voltage variation	du/dt max.	110	V/ μsec	max. repetitive
Repetitive surge current	I cr. max	440	A	
Equivalent serie resistance	ESR	5.0	m Ω	1 V / 10 to 50 kHz
Stray inductance	ESL	< 15	nH	
Insulation resistance	Ri x C	> 20'000	s	100 VDC - 1 min
Test voltage between terminals	U T1	1350	VDC	10 s
Climatic category		40/105/56		
Estimated operational life (-3%)		> 100'000	h	Un DC / 70°C
Dimension	Symbol	Value	Unit	Conditions
Width	B	36	mm	
Length	L	40	mm	
	L1	18	mm	
Height	H	40	mm	
Terminals tinned wire	$\varnothing d$	1.2	mm	
RM1		30	mm	
RM2		25	mm	
	M1			
	M0			
	Modification	Date	Visa émetteur	

Condensateurs
Kondensatoren
Capacitors

CH 1400 Yverdon-les-Bains
Tel.: ++41 24 445 66 88
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Le lanché
Capacitors
A FISCHER & WALSCHER COMPANY

HJJ

24.08.2009

faisab5840.XLS

Hot spot calculation and life time expectancy

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 I_{rms} in ampere

LIFETIME EXPECTANCY VS HOT SPOT TEMPERATURE AND RATED VOLTAGE

