Data Sheet

Film Capacitor

LCap p/n : PL-4 80-60.0 g (K)

Technical data

Nominal capacitance	C_N	60	µF ± 10 %
Nominal voltage dc	U_{NDC}	800	V
Surge voltage	U_S	1200	V
Energy	W_N	19,2	W
Max. AC current @ T_{case}=30°C/10 kHz	I_{RMS}	27	A
Max. Peak periodic current	$\hat{I}_{Periodic}$	780	A
Max. Pulse rise time	$\Delta U/\Delta t$	13	V/µs
Dissipation factor @ 1 kHz	tanδ	21	$x10^{-4}$
Series resistance @ 10 kHz	R_{ESR}	<5,5	mΩ

Max. Power loss @ $\vartheta_{hotspot}$ 85°C / nat. convection / 10kHz

@ ϑ_{case}	I	P_{max}
40 °C	25,2 A	3 W
50 °C	22,2 A	2,3 W
60 °C	18,8 A	1,7 W
70 °C	14,6 A	1 W

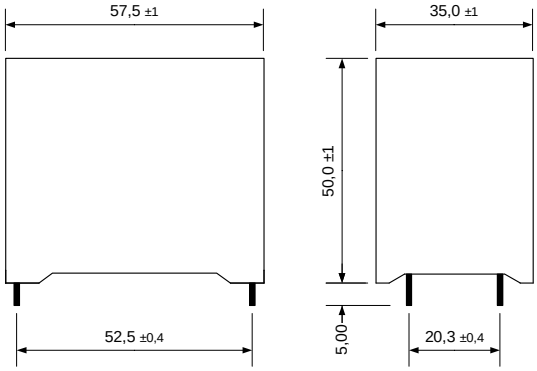
U_N-Derating

@ ϑ_{case}	U_{Nmax}
70°C	U_N x 1
75°C	U_N x 0,9
80°C	U_N x 0,8
85°C	U_N x 0,7

Min. Operating temperature	ϑ_{min}	-40	°C
Max. Operating temperature (I_R =0)	ϑ_{max}	+85	°C
Storage temperature	ϑ_{Lager}	+85	°C
Thermal resistance (case hotspot)	R_{th}	7	K/W
Climatic category DIN IEC 68/1		40/085/21	
Test voltage between terminals	U_{TT}	1200	V dc / 2s
Life expectancy @ hot spot 60°C		100 000	h

Dimensions

Length	L	57,5	±1 mm
Width	B	35	±1 mm
Height	H	50	±1 mm
Pitch	RM	52,5	±0,4 mm
Pitch2	RM	20,3	±0,4 mm



General data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	4x tinned copper wire Ø 1,2 mm
Soldering conditions	max. 260°C / 10 sec
Weight	approx. 0,121 kg

RoHS compliant