

LCap Part number : CXPLP 80-66.0 t5 (K)

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Technical data

Nominal capacitance	C_N	66 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	1000 V
Surge voltage	U_s	1500 V
Energy	W_N	33 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}/10\text{ kHz}$	I_{RMS}	100 A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	2,2 kA
Max. Pulse rise time	$\Delta U/\Delta t$	33 V/ μs
Dissipation factor @ 1 kHz	$\tan\delta$	$<6,2 \times 10^{-4}$
Equivalent series resistance @ 10 kHz	R_{ESR}	$<1\text{ m}\Omega$
Self inductance	L_E	10,5 nH

Max. Power loss @ $\vartheta_{\text{hotspot}} 85^\circ\text{C} / 10\text{kHz}$

@ ϑ_{case}	I	P _{max}
40°C	90,5 A	7,6 W
50°C	79,8 A	5,9 W
60°C	67,5 A	4,2 W
70°C	52,2 A	2,5 W

U_N -Derating

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

Min. Operating temperature	ϑ_{min}	-40 °C
Max. Operating temperature ($I_R = 0$)	ϑ_{max}	+85 °C
Storage temperature	ϑ_{Lager}	-40...+85 °C
Thermal resistance (case hotspot)	R_{th}	4,5 K/W
Climatic category DIN IEC 68/1		40/085/21

Test voltage between terminals U_{TT} 1500 V dc / 2s

Life expectancy @ hot spot 60°C 100 000 h

General data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	brass nickel plated M8x20mm, max. torque 6 Nm
Weight	approx. 350g

RoHS compliant

Dimensions

Diameter	\varnothing	85,0	-1 mm
Length	L	40,0	$\pm 0,5\text{ mm}$
Pitch	RM	45,0	$\pm 0,4\text{ mm}$

