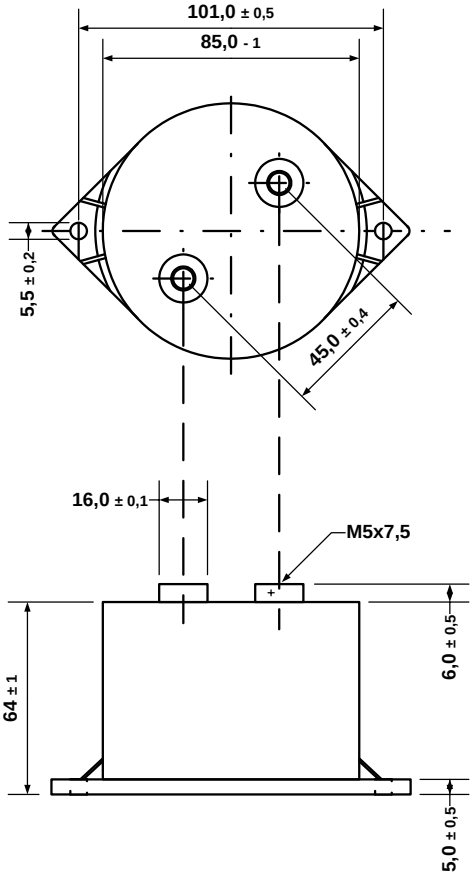
Leclanché Capacitors	Power Capacitor	CXPLP 80-140 T6 (K)

Technical data

Nominal capacitance	C_N	140	µF ± 10%
Nominal voltage DC	U_{NDC}	800	V
Nominal voltage AC	U_{NAC}	115	V
Surge voltage	U_S	1200	V
Energy	W_N	44,8	Ws
Max. current /1 kHz	I_{Max}	100	A
@ Busbar Temp < 50 °C			
Max. periodic Peak current	$\hat{I}_{Periodic}$	2471	A
Max. Pulse rise time	$\Delta U/\Delta t$	17.7	V/µs
Series resistance @ 10 kHz	R_{ESR}	1,6	mΩ
Dissipation factor @1 kHz	$\tan\delta$	15	$x10^{-4}$
Self inductance	L_E	< 10.5	nH



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

P_{max}	@ ϑ_{case}	I_{max}
45 W	40 °C	96,8 A
35 W	50 °C	85,4 A
25 W	60 °C	72,2 A
15 W	70 °C	55,9 A

U_N-Derating

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

Min. Operating temperature	ϑ_{min}	-40	°C
Max. Operating temperature (I_R =0)	ϑ_{max}	+105	°C
Storage temperature	ϑ_{Lager}	-40...+105	°C
Thermal resistance (case hotspot)	R_{th}	3	°C/W
Climatic category DIN IEC 68/1		40/105/21	

Test Data

Test voltage between terminations	U_{TT}	1200	V dc / 10s

Life expectancy

@ hot spot 85°C and 280VDC >300k hours

General technical data

Coating	PA 66 plastic case with polyurethane resin sealing Flame retardant UL 94V-0 compliant
Dielectric	Polypropylene
Terminals	nickel-plated brass, M5 x 7.5mm
Weight	~390g
Max torque on flanges	3 N.m
Max torque connection inserts	2.5 N.m

Condensateurs CH-1400 Yverdon, Switzerland
Kondensatoren Tel. : +41 24 445 66 88
Capacitors Fax : +41 24 445 66 89
capinfo@lcap.ch

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Metallized Polypropylene Power Capacitors **CXPLP**