Leclanché Capacitors
48, av. de Grandson
1400 Yverdon, Switzerland

Tel. +41 24 445 66 88
Fax +41 24 445 66 89
capinfo@LCap.ch

Film Capacitor

Preliminary

Type: EC1000µ700d090256KF6

Part-No: 1020080

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Technical data

Nominal capacitance	C_N	1000	µF ± 10%
Nominal voltage dc	U_{NDC}	700	V
Surge voltage	U_S	1050	V
Energy	W_N	245	Ws
Max. AC current @ T_{case}=30°C/1 kHz	I_{RMS}	60	A
Max. Peak periodic current	$\hat{I}_{Periodic}$	6160	A
Max. Pulse rise time	$\Delta U/\Delta t$	6,2	V/µs
Dissipation factor @ 1 kHz	tanδ	<160	$x10^{-4}$
Series resistance @ 1 kHz	R_{ESR}	<3,5	mΩ

Max. Power loss @ $\vartheta_{hotspot}$ 85°C / 1kHz

@ ϑ_{case}	I	P_{max}
40°C	55 A	4,9 W
50°C	49 A	3,8 W
60°C	41 A	2,7 W
70°C	32 A	1,6 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}	-40...+85	°C
Thermal resistance (case hotspot)	R_{th}	1,5	K/W
Climatic category DIN IEC 68/1		40/085/21	
Test voltage between terminals	U_{TT}	1050	V dc / 2s
Test voltage between terminal/case	U_{TC}	2400	V ac / 10s
Life expectancy @ hot spot 60°C		100 000	h

General data

Coating	aluminium can with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	M6 brass nickel plated, max. torque 6 Nm
Weight	approx. 2,1 kg

RoHS compliant

Dimensions

Diameter	Ø	90,0	±1 mm
Length	L	256,0	±2 mm
Pitch	RM	32,0	±0,5 mm