

LCap p/n : EC 90-330 cv6 (K)

Int ref 1024629

date: 27/11/2013 10:24:00
issued by: HT
version: 1.0
27.11.2013 11:47

Technical data

Nominal capacitance	C_N	330 $\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	900 V
Surge voltage	U_S	1350 V
Energy	W_N	134 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}/1\text{ kHz}$	I_{RMS}	52 A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	2727 A
Max. Pulse rise time	$\Delta U/\Delta t$	8,3 V/ μs
Dissipation factor @ 1 kHz	$\tan\delta$	$<120 \times 10^{-4}$
Series resistance @ 1 kHz	R_{ESR}	$<5\text{ m}\Omega$

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

@ ϑ_{case}	I	P _{max}
40°C	48 A	8,7 W
50°C	42 A	6,8 W
60°C	36 A	4,8 W
70°C	28 A	2,9 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}	2,5 K/W
Climatic category DIN IEC 68/1		40/085/21

Test voltage between terminals	U_{TT}	1350 V dc / 2s
Test voltage between terminal/case	U_{TC}	2800 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. 0,8 kg

RoHS compliant

Dimensions

Diameter	\varnothing	85,0	$\pm 1\text{ mm}$
Length	L	106,0	$\pm 1\text{ mm}$
Pitch	RM	32,0	$\pm 0,5\text{ mm}$

