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Type: EC450µ1100d085140KF8

Technical data

Nominal capacitance	C_N	450	µF ± 10%
Nominal voltage dc	U_{NDC}	1100	V
Surge voltage	U_S	1650	V
Energy	W_N	272,25	Ws
Max. AC current @ T_{case}=30°C/10 kHz	I_{RMS}	64	A
Max. Peak periodic current	$\hat{I}_{Periodic}$	2,6	kA
Max. Pulse rise time	$\Delta U/\Delta t$	5,9	V/µs
Dissipation factor @ 1 kHz	tanδ	<200	$x10^{-4}$
Series resistance @ 10 kHz	R_{ESR}	<5	mΩ

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

@ ϑ_{case}	I	P_{max}
40°C	58,0 A	17,6 W
50°C	51,2 A	13,7 W
60°C	43,5 A	9,8 W
70°C	21,1 A	5,9 W

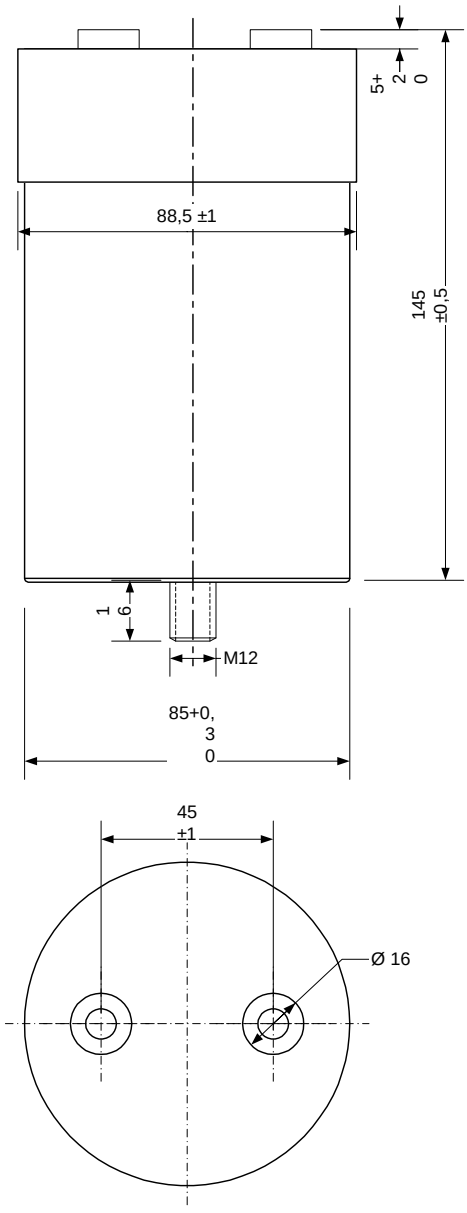
U_N-Derating

@ 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...+70	°C
Thermal resistance (case hotspot)	R_{th}	2,1	K/W
Climatic category DIN IEC 68/1		40/070/21	
Test voltage between terminals	U_{TT}	1650	V dc / 2s
Test voltage between terminal/case	U_{TC}	3200	V ac / 10s
Life expectancy @ hot spot 60°C		100 000	h

Dimensions

Diameter	Ø	85,0	+0,3 mm
Length	L	145,0	±0,5 mm
Pitch	RM	45	±1 mm



General data

Coating	aluminium case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	brass nickel plated M8x13mm, max. torque 6 Nm
Weight	approx. 1,1kg

RoHS compliant