



Preliminary

Type: EC1150 μ 900d116165KF6

Part-No: 1024638

Technical data

Nominal capacitance	C_N	1150 μ F \pm 10%
Nominal voltage dc	U_{NDC}	900 V
Surge voltage	U_S	1350 V
Energy	W_N	466 Ws
Max. AC current @ $T_{case}=30^\circ$ C/10 kHz	I_{RMS}	81,3 A
Max. Peak periodic current	$\hat{I}_{periodic}$	12 kA
Max. Pulse rise time	$\Delta U/\Delta t$	10 V/ μ s
Dissipation factor @ 1 kHz	$\tan\delta$	<80 $\times 10^{-4}$
Series resistance @ 10 kHz	R_{ESR}	<1,2 m Ω

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

@ ϑ_{case}	I	P_{max}
40°C	73,5 A	5,4 W
50°C	64,8 A	4,2 W
60°C	54,8 A	3,0 W
70°C	42,4 A	1,8 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}	1,3 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

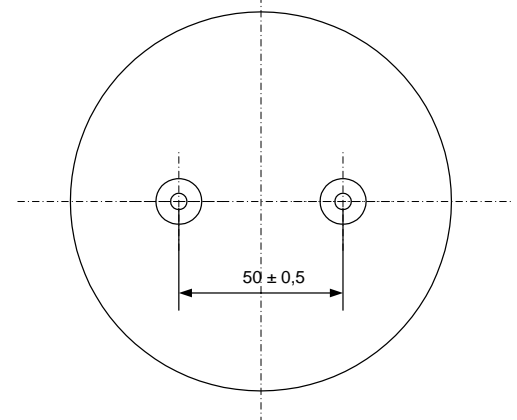
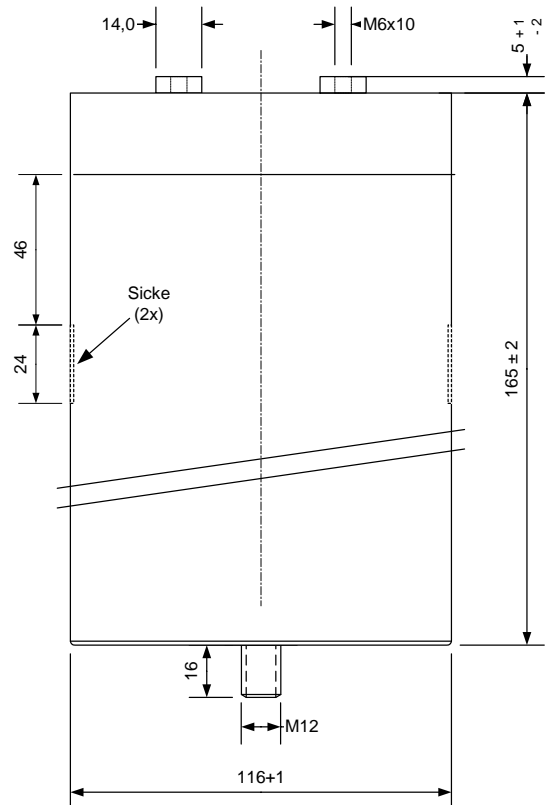
General data

Coating	aluminium can with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	brass nickel plated M6x10, max. torque 6 Nm
Weight	approx. 2,3 kg

RoHS compliant

Dimensions

Diameter	\varnothing	116,0	+1 mm
Length	L	165,0	\pm 2 mm
Pitch	RM	50,0	\pm 0,5 mm



Expected lifetime

