Data Sheet

Film Capacitor

Preliminary

Type: EC1150µ900d116165KF6

Part-No: 1024638

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date: 17/12/2012 13:45:00
issued by: SM
version: 1.0
17.12.2012 15:27

Technical data

Nominal capacitance	C_N	1150	µF ± 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°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/µs
Dissipation factor @ 1 kHz	tanδ	<80	$x10^{-4}$
Series resistance @ 10 kHz	R_{ESR}	<1,2	mΩ

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 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}	1,3	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

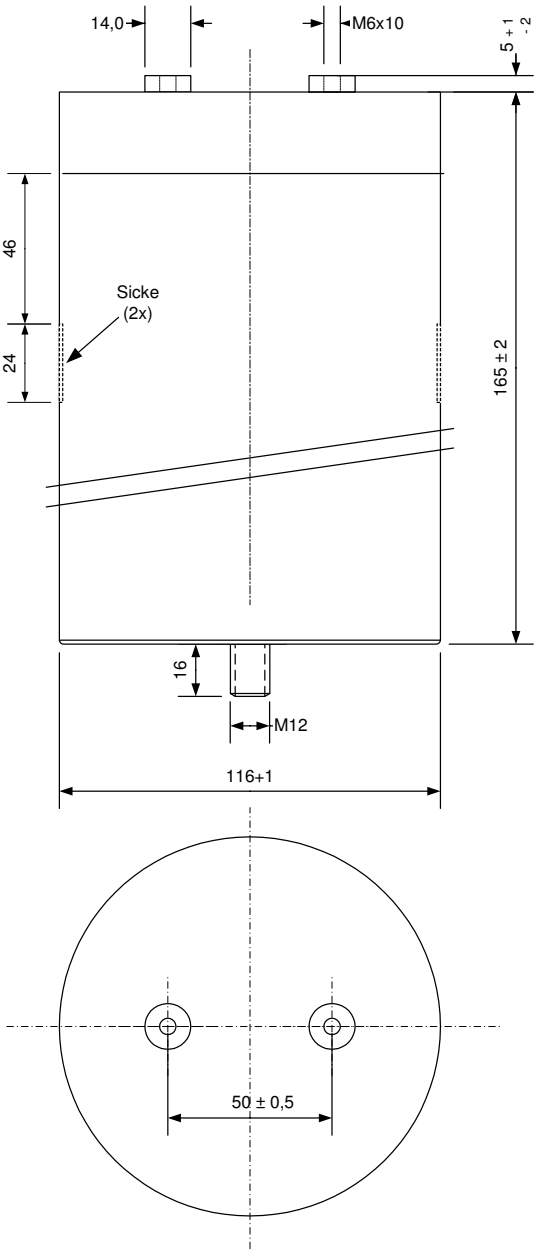
General data

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	Ø	116,0	+1 mm
Length	L	165,0	±2 mm
Pitch	RM	50,0	±0,5 mm



Expected lifetime