

Preliminary

Type: FRP2x16µ630d035070K

Part-No: 1031979

Technical data

Nominal capacitance	C_N	2x 16	$\mu\text{F} \pm 10\%$
Nominal voltage dc	U_{NDC}	630	V
Nominal voltage ac @ 50 Hz	U_{NAC}	100	V
Surge voltage	U_S	945	V
Energy	W_N	6,3	Ws
Max. AC current	I_{RMS}	2x 18	A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	2x 376	A
Max. Pulse rise time	$\Delta U / \Delta t$	23,5	V/ μs
Dissipation factor @ 1 kHz	$\tan\delta$	<18	$\times 10^{-4}$
Equivalent series resistance @ 10 kHz	R_{ESR}	2x <40	m Ω

Dimensions

Diameter	D	35,0	± 1 mm
Length	L	70,0	± 1 mm

Max. Power loss @ $\vartheta_{\text{hotspot}} 85^\circ\text{C} / 10\text{kHz}$

@ ϑ_{case}	I	P_{max}
40°C	2x 18 A	4,5 W
50°C	2x 16 A	3,5 W
60°C	2x 13 A	2,5 W
70°C	2x 10 A	1,5 W

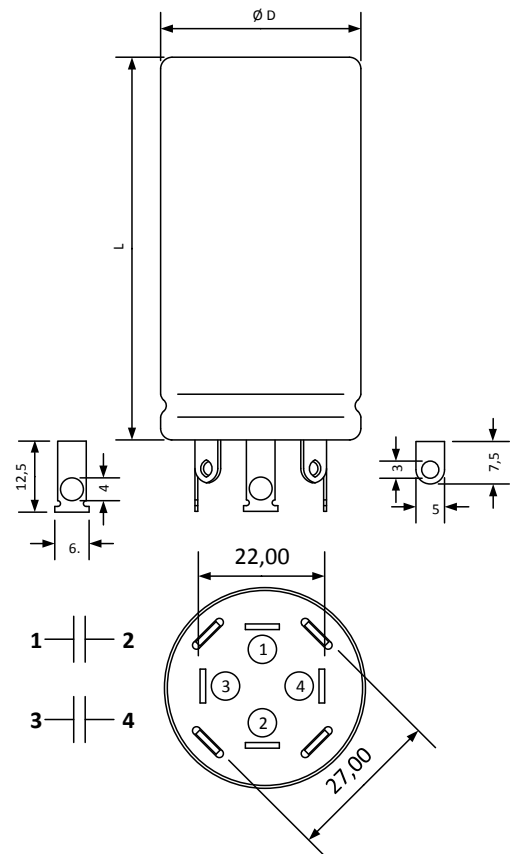
U_N -Derating

@ ϑ_{case}	$U_{N\text{max}}$
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}	11	K/W
Climatic category DIN IEC 68/1		40/085/21	

Test voltage between terminals	U_{TT}	945	V dc / 2s
Test voltage between terminal/case	U_{TC}	2260	V ac / 10s

Life expectancy @ hot spot 70°C 100 000 h



General data

Coating	Aluminium can with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	solder lugs
Soldering conditions	max. 260°C / 10 sec
Weight	approx. 90 g

RoHS compliant