

Preliminary

Type: PPM 100-3.0 uv (J)

Part-No: 1025568

Technical data

Nominal capacitance	C_N	3 $\mu\text{F} \pm 5\%$
Nominal voltage dc	U_{NDC}	1000 V
Nominal voltage ac @ max. 5 kHz	U_{NAC}	600 V
Surge voltage	U_S	1500 V
Energy	W_N	1,5 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}/20\text{ kHz}$	I_{RMS}	120 A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	1,27 kA
Max. Pulse rise time	$\Delta U/\Delta t$	424 V/ μs
Dissipation factor @ 1 kHz	$\tan\delta$	$<2,5 \times 10^{-4}$
Series resistance @ 20 kHz	R_{ESR}	$<1,5\text{ m}\Omega$

Dimensions

Diameter	\varnothing	90,0	$\pm 1\text{ mm}$
Length	L	52,0	$\pm 1\text{ mm}$
Pitch	RM	60,0	$\pm 1\text{ mm}$

Max. Power loss @ $\vartheta_{\text{hotspot}} 85^\circ\text{C}$ / nat. convection / 20kHz

@ ϑ_{case}	I	P_{max}
40°C	109 A	14 W
50°C	96 A	11 W
60°C	81 A	7,5 W
70°C	63 A	4,5 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}	3,5 K/W
Climatic category DIN IEC 68/1		40/085/21

Test voltage between terminals U_{TT} 1500 V dc / 2s

Life expectancy @ hot spot 60°C 30 000 h

General data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	M8 brass nickel plated, max. torque 6 Nm
Weight	approx. 500 g
RoHS compliant	

