Data Sheet

Film Capacitor

Type: HVP25n10kV

Part-No: 1020810

Preliminary

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date: 06/09/2019 07:54:00
issued by: HT
version: 1
06.09.2019 09:00

Technical data

Nominal capacitance	C_N	25	nF ± 10%
Nominal voltage dc	U_{NDC}	10	kV
Surge voltage	U_S	15	kV
Energy	W_N	1,25	Ws
Max. AC current 10 kHz	I_{RMS}	2	A
Max. Peak periodic current	$\hat{I}_{Periodic}$	80	A
Max. Pulse rise time	$\Delta U/\Delta t$	3193	V/µs
Dielectric loss (Polypropylene)	$\tan\delta_0$	2	$x10^{-4}$
Dissipation factor @ 1 kHz	$\tan\delta$	<2,5	$x10^{-4}$
Equivalent series resistance @ 10 kHz	R_{ESR}	<0,5	Ω
Self inductance	L_E	50	nH

U_N-Derating

@ ϑ_{case}	U_{Nmax}
60°C	U_N x 1
65°C	U_N x 0,9
70°C	U_N x 0,8
75°C	U_N x 0,7

Min. Operating temperature	ϑ_{min}	-40	°C
Max. Operating temperature (I_R =0)	ϑ_{max}	+75	°C
Storage temperature	ϑ_{Lager}	-40...+85	°C
Thermal resistance (case hotspot)	R_{th}	15	K/W
Climatic category DIN IEC 68/1		40/075/21	
Test voltage between terminals	U_{TT}	15000	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	tinned copper wire Ø 1,2 mm
Soldering conditions	max. 260°C / 10 sec
Weight	approx. 40 g

RoHS compliant

Dimensions

Diameter	D	25,0	±1 mm
Length	L	70,0	±1 mm
Wire length	dl	40,0	+10 mm