



FTCAP
FISCHER & TAUSCHE
CAPACITORS

Data Sheet

Film Capacitor

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Technical data

Nominal capacitance	C_N	10 nF \pm 20%
Nominal voltage dc	U_{NDC}	20 kV
Nominal voltage ac @ 50Hz	U_{NAC}	4,2 kV
Surge voltage	U_S	30 kV
Energy	W_N	2 Ws
Max. AC current @ $T_{case}=30^\circ\text{C}/10$ kHz	I_{RMS}	4,5 A
Max. Peak periodic current	$\hat{I}_{Periodic}$	245 A
Max. Pulse rise time	$\Delta U/\Delta t$	23730 V/ μ s
Dissipation factor @ 1 kHz	$\tan\delta$	$<2 \times 10^{-4}$
Series resistance @ 10 kHz	R_{ESR}	<400 m Ω

Min. Operating temperature	ϑ_{min}	-25 $^\circ\text{C}$
Max. Operating temperature ($I_R=0$)	ϑ_{max}	+55 $^\circ\text{C}$
Storage temperature	ϑ_{Lager}	-25...+85 $^\circ\text{C}$
Thermal resistance (case hotspot)	R_{th}	8 K/W
Climatic category DIN IEC 68/1		25/055/21

Test voltage between terminals U_{TT} 30 kV dc / 2s

Life expectancy @ hot spot 60 $^\circ\text{C}$ 30 000 h

General data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	tinned copper wire \varnothing 1mm
Soldering conditions	max. 260 $^\circ\text{C}$ / 10 sec
Weight	approx. 105g

RoHS compliant

Dimensions

Diameter	\varnothing	32,00	\pm 1 mm
Length	L	102,00	\pm 1 mm

