



#### Technical data

Nominal capacitance	$C_N$	0,1 $\mu\text{F} \pm 10\%$
Nominal voltage dc	$U_{\text{NDC}}$	30 kV
Surge voltage	$U_S$	45 kV
Energy	$W_N$	45 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}/10\text{ kHz}$	$I_{\text{RMS}}$	35 A
Max. Peak periodic current	$\hat{I}_{\text{periodic}}$	760 A
Max. Pulse rise time	$\Delta U/\Delta t$	7600 V/ $\mu\text{s}$
Dissipation factor @ 1 kHz	$\tan\delta$	$<2 \times 10^{-4}$
Series resistance @ 10 kHz	$R_{\text{ESR}}$	$<60\text{ m}\Omega$

#### Dimensions

Length	L	300	$\pm 1\text{ mm}$
Width	B	70	$\pm 1\text{ mm}$
Height	H	70	$\pm 1\text{ mm}$

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

@ $\vartheta_{\text{case}}$	I	P <sub>max</sub>
40°C	32 A	46 W
50°C	29 A	36 W
60°C	24 A	26 W
70°C	19 A	15 W

$U_N$ -Derating

@ $\vartheta_{\text{case}}$	$U_{\text{Nmax}}$
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	$\vartheta_{\text{min}}$	-40 °C
Max. Operating temperature ( $I_R=0$ )	$\vartheta_{\text{max}}$	+85 °C
Storage temperature	$\vartheta_{\text{Lager}}$	-40...+85 °C
Thermal resistance (case hotspot)	$R_{\text{th}}$	1,1 K/W
Climatic category DIN IEC 68/1		40/085/21

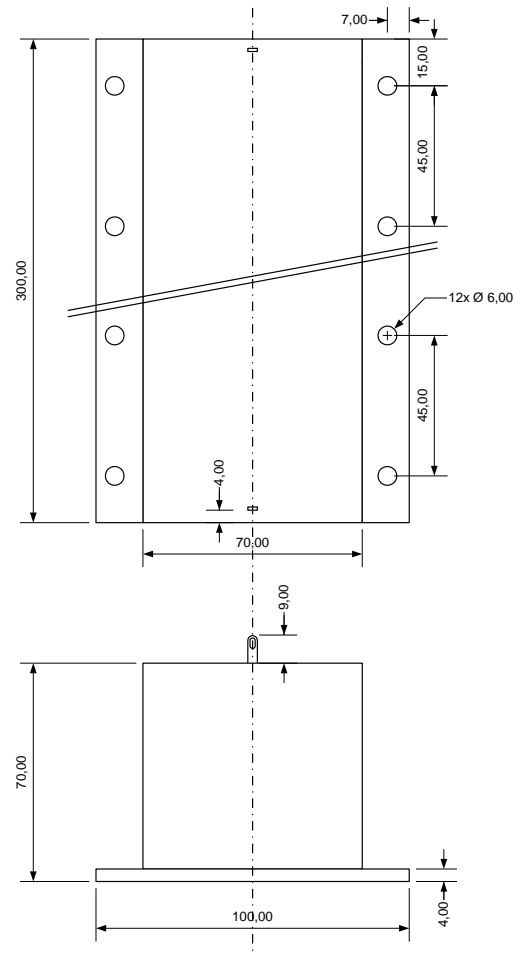
Test voltage between terminals  $U_{\text{TT}}$  45 kV dc / 2s

Life expectancy @ hot spot 60°C 100 000 h

#### General data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	solder lugs
Soldering conditions	max. 260°C / 10 sec
RoHS compliant	

Weight approx. 2 kg





**FTCAP**  
FISCHER & TAUSCHE  
CAPACITORS

**ftcap GmbH**

**Film Capacitor**

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### Technical data

Nominal capacitance	$C_N$	6,8 nF $\pm$ 10%
Nominal voltage dc	$U_{NDC}$	15000 V
Surge voltage	$U_S$	22500 V
Energy	$W_N$	765 mWs
Max. Peak periodic current	$\hat{I}_{Periodic}$	48,3 A
Max. Pulse rise time	$\Delta U/\Delta t$	7100 V/ $\mu$ s
Series resistance @ 10 kHz	$R_{ESR}$	<1,5 $\Omega$
Dissipation factor @ 1 kHz	$\tan\delta$	2 $\times 10^{-4}$

### $U_N$ -Derating

$U_{Nmax}$	@ $\vartheta_{case}$
$U_N \times 1$	$\leq 70$ °C
$U_N \times 0,9$	$\leq 75$ °C
$U_N \times 0,8$	$\leq 80$ °C
$U_N \times 0,7$	$\leq 85$ °C

Min. Operating temperature	$\vartheta_{min}$	-40 °C
Max. Operating temperature ( $I_R = 0$ )	$\vartheta_{max}$	+70 °C
Storage temperature	$\vartheta_{Lager}$	-40...+70 °C
Thermal resistance (case hotspot)	$R_{th}$	16 K/W
Climatic category DIN IEC 68/1		40/070/21

### Test Data

Test voltage between terminals	$U_{TT}$	22500 V dc / 2s
Discharge ability test		10 pieces / lot

**Life expectancy @ hot spot 70°C** 100000 h

### General technical data

Coating	plastic case with resin sealing
Case	Polycarbonate
Potting	Epoxy
Dielectric	Polypropylene
Terminals	tinned copper wire $\varnothing$ 0,8
Pitch	47,0 $\pm$ 0,4 mm
Soldering conditions	max. 260°C / 10 sec
Lot size	4000

RoHS compliant

### Technical data

Nominal capacitance	$C_N$	120 nF ± 10%
Nominal voltage dc	$U_{NDC}$	10 kV
Nominal voltage ac @ 50 Hz	$U_{NAC}$	1,75 kV
Surge voltage	$U_S$	15 kV
Energy	$W_N$	6 Ws
Max. AC current @ $T_{case}=30^\circ C$	$I_{RMS}$	3 A
Max. Peak periodic current	$\hat{I}_{Periodic}$	2300 A
Max. Pulse rise time	$\Delta U/\Delta t$	19167 V/ $\mu$ s
Dissipation factor @ 1 kHz	$\tan \delta$	<2 x10 <sup>-4</sup>
Series resistance @ 10 kHz	$R_{ESR}$	<32 m $\Omega$
Leakage resistance	$R_{ISO}$	125 G $\Omega$
Min. Operating temperature	$\vartheta_{min}$	-25 °C
Max. Operating temperature ( $I_R = 0$ )	$\vartheta_{max}$	+70 °C
Storage temperature	$\vartheta_{Lager}$	-55...+85 °C
Thermal resistance (case hotspot)	$R_{th}$	5 K/W
Climatic category DIN IEC 68/1		25/085/21
Test voltage between terminals	$U_{TT}$	15 kV dc / 2s
Leakage current @ $U_N$	$I_R$	<80 nA
Life expectancy @ hot spot 60°C		100 000 h

### General data

Coating	plastic case with resin sealing, oil resistant, Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	soldering lugs
Soldering conditions	max. 260°C / 10 sec
RoHS compliant	
FUG Part-No.	0201100021
Weight	approx. 215 g

### Dimensions

Length	L	60,00	±0,5 mm
Width	B	60,00	±0,5 mm
Height	H	45,00	±0,5 mm
Pitch	RM	44,00	±0,5 mm

