



## Film Capacitor

Type: FRP7.5n16kd090035016

### Preliminary

Nedderweg, 25813 Husum  
Tel.: +49 (0) 4841/ 8957-0  
Fax.: +49 (0) 4841/ 8957-45  
e-mail: [info@ftcap.de](mailto:info@ftcap.de)  
[www.ftcap.de](http://www.ftcap.de)

date: 26.01.2010 07:49  
issued by: db  
version: 1.0  
26.01.2010 15:13

#### Technical data

Nominal capacitance	$C_N$	7,5 nF ± 10%
Nominal voltage dc	$U_{NDC}$	16000 V
Nominal current	$I_N$	1,5 A
Surge voltage	$U_S$	24000 V
Energy	$W_N$	0,96 Ws
Max. Pulse rise time	$\Delta U/\Delta t$	5600 V/ $\mu$ s
Series resistance @ 10 kHz	$R_{ESR}$	460 m $\Omega$
Dissipation factor @ 1 kHz	$\tan\delta$	2,03 x10 <sup>-4</sup>
$U_N$ -Derating		

$U_{Nmax}$	@ $\vartheta_{case}$
$U_N \times 1$	≤ 50 °C
$U_N \times 0,9$	≤ 55 °C
$U_N \times 0,8$	≤ 60 °C
$U_N \times 0,7$	≤ 65 °C

Min. Operating temperature	$\vartheta_{min}$	-25 °C
Max. Operating temperature ( $I_R = 0$ )	$\vartheta_{max}$	+65 °C
Storage temperature	$\vartheta_{Lager}$	-25...+65 °C
Thermal resistance (case hotspot)	$R_{th}$	25 °C/W
Climatic category DIN IEC 68/1		25/065/21

#### Test Data

Test voltage between terminals  $U_{TT}$  24000 V dc / 10s

Life expectancy @ hot spot 60°C 30 000 h

#### General technical data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	tinned copper wire Ø 1mm
Weight	~ 62g

