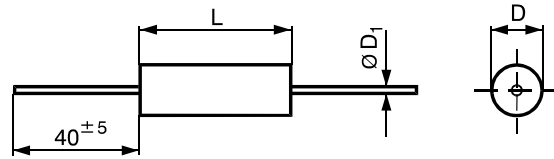


**Polystyrene-/Polypropylene-Film-Capacitor
in combined design**

with axial leads



Characteristic

- small sizes, self-healing
- low dielectric losses up to high frequencies
- RoHS Compliant 2002/95/EG

Dielectric: Polystyrene-and Polypropylene-Film

Electrodes: Aluminium- foil

Coating: Plastic wrapped, epoxy resin sealed

Leads: Tinned wire

Temperature range: -40°C to +85°C

IEC test classification: 40/085/21 acc. EN 60068-1

Insulation resistance R_i : $\geq 100\ 000\ M\Omega$

Measuring procedure: 1 Min., 20°C

Dissipation factor $\tan\delta$ (at 20°C):

Frequency	$C_R \leq 1\ 000\ pF$	$C_R > 1\ 000\ pF$
1 kHz	$\leq 3 \cdot 10^{-4}$	$\leq 4 \cdot 10^{-4}$
10 kHz	$\leq 3 \cdot 10^{-4}$	$\leq 5 \cdot 10^{-4}$
100 kHz	$\leq 4 \cdot 10^{-4}$	$\leq 8 \cdot 10^{-4}$

AC-Voltage at 60 Hz: $1,4 \cdot U_{RMS} + U_{DC} \leq U_R$

Capacitance values: Series E12 acc. IEC 60063

Capacitance tolerance::

$\pm 20\%(M), \pm 10\%(K), \pm 5\%(J), \pm 2\%(G)$ for $C_R \geq 470\ pF$
 $\pm 20\%(M), \pm 10\%(K), \pm 5\%(J), \pm 2\%(G)$ for $100\ pF \leq C_R < 470\ pF$
 $\pm 20pF(M), \pm 10pF(K), \pm 5pF(J), \pm 2pF(G)$ for $C_R < 100\ pF$

Capacitance change vs. temperature at $C_R \geq 470\ pF$:
 $-(150 \pm 100) \cdot 10^{-6}/K$

Cyclic drift of capacitance: max. $\pm(1,0\% + 1\ pF)$

Test voltage (between terminations): $2 \cdot U_R, 2\ s$
 (Approval test: 1 Min.)

Test voltage (between terminations and case): $2 \cdot U_R, 1\ Min.$

Resistance to soldering heat: Bath temperature max. 260°C,
 duration max. 5 s, method Tb acc. IEC 60068-2-20

General Data

Capacitance C_R	160 Vdc 63 V, 60 Hz			630 Vdc 220 V, 60 Hz *			1 600 Vdc 400 V, 60 Hz		
	D	L	D_1	D	L	D_1	D	L	D_1
47 pF				5	11,5	0,6	6	14,5	0,6
68 pF				5	11,5	0,6	6	14,5	0,6
100 pF				5	11,5	0,6	6	14,5	0,6
150 pF				5	11,5	0,6	6,5	14,5	0,6
220 pF				5	11,5	0,6	7,5	14,5	0,6
330 pF				5	11,5	0,6	6	19,5	0,8
470 pF				6	11,5	0,6	6	19,5	0,8
680 pF				7	11,5	0,6	6,5	19,5	0,8
1 000 pF	5	11,5	0,6	8	11,5	0,6	7,5	19,5	0,8
1 500 pF	5,5	11,5	0,6	7	16,5	0,8			
2 200 pF	6	11,5	0,6	8	16,5	0,8			
3 300 pF	7	11,5	0,6	9	16,5	0,8			
4 700 pF	7,5	11,5	0,6	11,5	16,5	0,8			
6 800 pF	7	16,5	0,8	9,5	19,5	0,8			
10 000 pF	8	16,5	0,8	11,5	19,5	0,8			

*: not for mains applications

Intermediate values following line E12 by request – unless something other was agreed – the size of the next higher value in line E6 is effective

Packing: Loose capacitors in boxes or taped and reeled

Additional information find as follow:

General and Principles: www.electel.de/files/general.pdf

Taping: www.electel.de/files/tape.pdf

This specification must be read in conjunction with the data given in the "General technical information" chapter.
 In all cases the German version of this document shall be taken as authoritative.

Electronic-Bauteile Görlitz GmbH • Girbigsdorfer Straße 17 • D-02828 Görlitz

Tel.: +49(0)3581 76510 • Fax: +49(0)3581 765113 • E-mail: kontakt@electel.de • Website: www.electel.de