

POLYSTYRENE CAPACITOR (STYROFLEX)

KSY

Application:

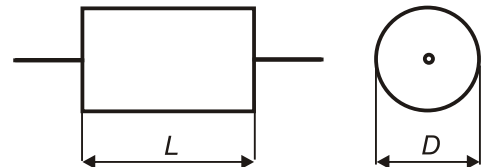
Capacitor can be used in resonant circuits and filter applications. Polystyrene capacitor has a high long - term capacitance stability, relatively low dissipation factor ($\times 10^{-4}$), high insulation resistance and low negative temperature coefficient of capacitance changes ($-100 \text{ ppm}/^{\circ}\text{C}$).

Characteristic:

- low dielectric losses up to high frequencies,
- stability $\Delta c/c$
- low distortion,
- good long constancy.

There are a three version of the KSY capacitors:

1. KSY-01
2. KSY-02
3. KSY-03



KSY-01

Characteristic:

- self-healing,
- non inductive,
- dielectric - polystyrene foil,
- electrode - metallized,
- epoxy resin sealed,

U_N	200V	400VDC 160VAC	630VDC 250VAC
C_N	0,3 μ F	0,7 \div 3,0 μ F	0,5 \div 2,2 μ F
tolerance \pm	2%; 5%; 10%		
operating temperature	-20 \div +85 $^{\circ}$ C		
tg δ	8×10^{-4}		
R_{izol}	$10^5 \text{ M}\Omega$		
D (mm)	30	40 \div 70	80
L (mm)	40	60	200

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Characteristic:

- film foil capacitor,
- high frequency,
- high voltage,
- stability capacitance,
- dielectric - polystyrene,
- electrode - Al foil,

U_N	2 ÷ 12kVAC	750V/ 50/ 60Hz 7kVDC	2; 10; 30kVDC
C_N	100pF ÷ 0,01μF	1nF ÷ 50nF	1nF ÷ 30nF
tolerance ±	2%; 5%; 10%	5%	10%
f_N	1,5 ÷ 400Hz	20 ÷ 500kHz (2,5Arms)	—
C-stabilność $\Delta c/c \pm$	0,34%	0,3%	0,3%
operating temperature	-20 ÷ +55°C		
tg δ	< 5 x 10 ⁻⁴		
R_{izol}	10 ⁵ MΩ		
D (mm)	70 ÷ 120	40 ÷ 90	40 ÷ 90
L (mm)	80 ÷ 160	80 ÷ 160	80 ÷ 160

Characteristic:

- precision,
- low distortion,
- stability temperature,
- dielectric - mix polystyrene,
- electrode - Al foil, Sn foil

U_N	400VDC 160VAC	630VDC 250VAC	500VAC 10kVDC	1500VAC 25kVDC
C_N	0,5 ÷ 3,0μF		10 ÷ 100nF	100; 200nF
tolerance ±	10%		2%; 5%; 10%	10%
operating temperature	70°C max		-40 ÷ +70°C	-40 ÷ +70°C
du/ dt	—		18000V/μs	25000V/μs
tg δ	8 x 10 ⁻⁴			
long stability in year $\Delta c/c \pm$	0,5%		0,25%	0,25%
D (mm)	30 ÷ 80		70	120
L (mm)	120 max		120	400



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