

## KJY Ceramic Disc Capacitor

**Y2 Class: 250Vac - X1 Class: 400Vac**

### ■ Description

- The capacitors consist of a ceramic disc both sides of which are silver plated. Connection leads are made of tinned copper having a diameter of  $\varnothing d = 0.65\text{mm}$ . The capacitors are supplied with straight leads.
- Encapsulation is made of flammable resistant epoxy resin in accordance with UL94 V0.

### ■ Applications

- Across-the-line
- Line by-pass
- Antenna coupling
- Interference suppression

### ■ Features

- High temperature operation, up to 125°C
- Complying with EN 132400 and IEC 60384-14, 2nd edition, including amendment 1.1995

### ■ Marking

ARCOTRONICS' logo: 

Series: KJY

Rated voltage & Subclass (IEC 60384-14): 400~X1 / 250~Y2

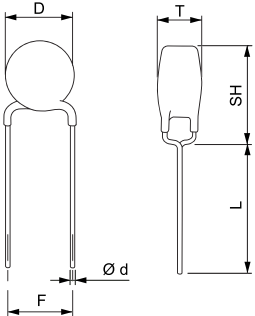
Rated voltage: cUL1414: 250~

Capacitance expressed in nF

Approval marks

**Max thickness T = 5mm**

**Standard version: lead length L=25±1mm / straight leads / loose packaging**

	C	Tol	D (max)	SH max straight	SH max kinked	Part Number	Temperature coefficient	
	(pF)	%	(mm)	(mm)	(mm)			
	100	±10	8	12	13	KJY101KR31-G- -A	Y5P -30°C to 85°C ±10%	
	150	±10	8	12	13	KJY151KR31-G- -A		
	220	±10	8	12	13	KJY221KR31-G- -A		
	330	±10	8	12	13	KJY331KR31-G- -A		
	470	±10	8	12	13	KJY471KR31-G- -A		
	560	±10	9	13	14	KJY561KR35-G- -A		
	680	±10	9	13	14	KJY681KR35-G- -A		
	1000	±10	10	14	15	KJY102KR39-G- -A		
	1000	±20	8	12	13	KJY102MR31-A- -A		Y5U -30°C to 85°C +22% -56%
	1500	±20	9	13	14	KJY152MR35-A- -A		
2200	±20	10	14	15	KJY222MR39-A- -A			
2500	±20	11	15	16	KJY252MR43-A- -A			
3300	±20	12	16	17	KJY332MR47-A- -A			
3900	±20	13	17	18	KJY392MR51-A- -A			
4700	±20	14	18	19	KJY472MR55-A- -A	Y5V -30°C to 85°C +22% -82%		
1000	±20	8	12	13	KJY102MR31-B- -A			
1500	±20	8	13	14	KJY152MR31-B- -A			
2200	±20	9	13	14	KJY222MR35-B- -A			
3300	±20	10	14	15	KJY332MR39-B- -A			
3900	±20	11	15	16	KJY392MR43-B- -A			
4700	±20	12	16	17	KJY472MR47-B- -A	Y5V -30°C to 85°C +22% -82%		
10000	±20	16	20	21	KJY103MR63-B- -A			

All dimensions are in mm

Digit 11: C=pitch 5mm; D=pitch 7.5mm; F=pitch 10mm; G=pitch 12.5mm  
Digit 13 and 14: Mechanical version and packaging (see page 15)

### ■ ELECTRICAL CHARACTERISTICS

The capacitors meet the essential requirements of IEC 60384-14, 2nd edition. Unless stated otherwise all electrical values apply at an ambient temperature of 20°C ±3°C, at normal atmospheric conditions.

Description	Value
Capacitance range at 1kHz, 1V (RMS)	100 to 10000 pF
Capacitance tolerance	± 10% up to 1000pF; ± 20% from 1000 to 10000pF
Rated AC voltage:	Y2 = 250V; 50/60Hz X1 = 400V; 50/60Hz
Dielectric strength (AC)	2600V for 60 s
Dielectric strength of coating (AC)	2600V for 60 s
Test voltage (AC)	2600V for 2 s
Insulation resistance at 500V (DC)	≥10000MΩ
Temperature coefficients on capacitance	Y5P (up to 1000pF) / Y5U from 1000pF to 4700pF Y5V from 1000pF to 10000pF
Dissipation factor at 1 kHz, 1V (RMS)	2.5% max
Operating temperature range	-25 to +125°C
Climatic category	25/125/21
Approvals	ENEC (EN132400/60384-14, 2nd ed.) - APPROVED cUL1414 - APPROVED