

KJN Ceramic Disc Capacitor

Y1 Class: 250Vac - X1 Class: 440Vac

■ 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

- 4kV (AC) test voltage
- 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: KJN

Rated voltage & Subclass (IEC 60384-14):440~X1 / 250~Y1

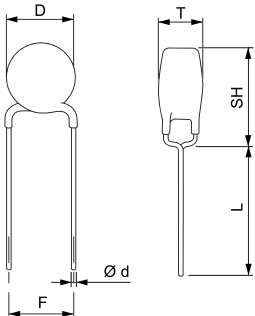
Rated voltage: cUL1414: 250~

Capacitance expressed in nF

Approval marks

Max thickness T = 6.5mm

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	9	13	14	KJN101KQ35-G- -A	Y5P -30°C to 85°C ±10%
	150	±10	9	13	14	KJN151KQ35-G- -A	
	220	±10	9	13	14	KJN221KQ35-G- -A	
	330	±10	9	13	14	KJN331KQ35-G- -A	
	470	±10	9	13	14	KJN471KQ35-G- -A	
	560	±10	10	14	15	KJN561KQ39-G- -A	
	680	±10	10	14	15	KJN681KQ39-G- -A	Y5U -30°C to 85°C + 22% -56%
	1000	±20	9	13	14	KJN102MQ35-A- -A	
	1500	±20	11	15	16	KJN152MQ43-A- -A	
	2200	±20	12	16	17	KJN222MQ47-A- -A	
	3300	±20	14	18	19	KJN332MQ55-A- -A	
	3900	±20	15	19	20	KJN392MQ59-A- -A	
	4700	±20	15	19	20	KJN472MQ59-A- -A	Y5V -30°C to 85°C + 22% -82%
	1000	±20	9	13	14	KJN102MQ35-B- -A	
	1500	±20	9	13	14	KJN152MQ35-B- -A	
	2200	±20	10	14	15	KJN222MQ39-B- -A	
	3300	±20	12	16	17	KJN332MQ47-B- -A	
	3900	±20	13	17	18	KJN392MQ51-B- -A	
	4700	±20	14	18	19	KJN472MQ55-B- -A	

All dimensions are in mm

Digit 11: 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 4700 pF
Capacitance tolerance	± 10% up to 680pF; ± 20%
Rated AC voltage:	Y1 = 250V; 50/60Hz X1 = 440V; 50/60Hz
Dielectric strength (AC)	4000V for 60 s
Dielectric strength of coating (AC)	4000V for 60 s
Test voltage (AC)	4000V for 2 s
Insulation resistance at 500V (DC)	≥10000MΩ
Temperature coefficients on capacitance	Y5P (up to 680pF) Y5U from 1000pF to 4700pF Y5V from 1000pF to 4700pF
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