

K1Y Ceramic Disc Capacitor

Y1 Class 440Vac; X1 Class 440Vac

SAFETY DEVICE

■ **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 0.6mm.
- The capacitors are supplied with straight leads.
- The standard tolerance on capacitance is $\pm 20\%$.
- 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**

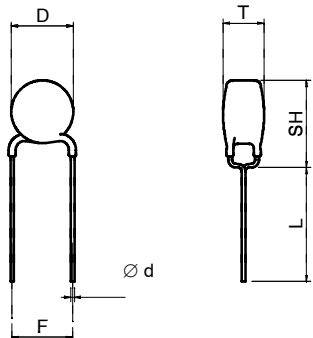
- 4kV (AC) test voltage
- High temperature operation, up to 125°C
- Complying with EN 132400 and IEC 60384-14, 2nd edition, including amendment 1.1995

■ **Marking**

ARCOTRONICS' logo: 

Series: K1
 Rated voltage & Subclass (IEC 60384-14): 440~Y1X1
 Rated voltage: (cUL 1414) 250~UL
 Capacitance expressed in nF
 Approval marks

■ **Pitch10 Y1, 440Vac; X1, 440Vac, max thickness T= 6mm, L=5 ± 1mm, capacitance and mechanical dimensions**

	C	Tol	D (max)	F (±1)	SH	Part Number
	(pF)	%	(mm)	(mm)	(mm)	
	100	±20	9	10	13	K1Y101MQ35FA- -A
	150	±20	9	10	13	K1Y151MQ35FA- -A
	220	±20	9	10	13	K1Y221MQ35FA- -A
	330	±20	9	10	13	K1Y331MQ35FA- -A
	470	±20	9	10	13	K1Y471MQ35FA- -A
	560	±20	10	10	14	K1Y561MQ39FA- -A
	680	±20	10	10	14	K1Y681MQ39FA- -A
	1000	±20	10	10	14	K1Y102MQ39FA- -A
	1500	±20	11	10	15	K1Y152MQ43FA- -A
	1800	±20	12	10	16	K1Y182MQ47FA- -A
	2200	±20	12	10	16	K1Y222MQ47FA- -A
	2700	±20	14	10	18	K1Y227MQ55FA- -A
	3300	±20	14	10	18	K1Y332MQ55FA- -A
	3900	±20	16	10	20	K1Y392MQ63FA- -A
	4700	±20	16	10	20	K1Y472MQ63FA- -A

All dimensions are in mm

Note: Lead spacing of 12.5mm is available upon request

Mechanical version and packaging (see table 2)

AA = loose, std leads
 CK = reel

■ **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	± 20%
Rated AC voltage:	
Y1	440V; 50/60Hz
X1	440V; 50/60Hz
Dielectric strength (AC)	4000V for 60 s
Test voltage of coating (AC)	4000V for 60 s
AC test voltage	4000V
Insulation resistance at 500V (DC)	≥ 10000MΩ
Temperature coefficients on capacitance	Y5U or better
Dissipation factor at 1 kHz, 1V (RMS)	2.5% max
Operating temperature range	-30 to +125°C
Climatic category	25/125/21
Approvals	FIMKO, VDE; SEMKO (EN132400/60384-14, 2nd ed.), cUL:1414