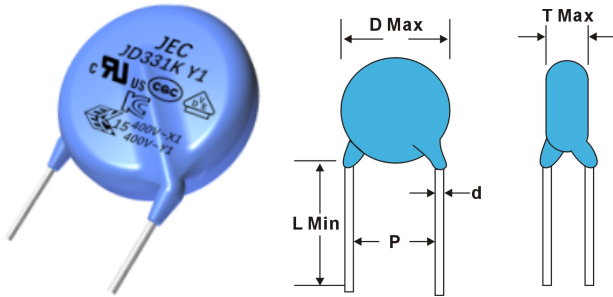


## Safety Certificated AC Capacitor Class X1,400Vac /Class Y1,400Vac



QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Ceramic Class	2
Ceramic Dielectric	Y5V Y5U Y5P
Voltage (V <sub>AC</sub> )	400      400
Min. Capacitance (pF)	10
Max. Capacitance (pF)	10 000
Mounting	Radial

### INSULATION RESISTANCE

Min. 1000 ΩF

### TOLERANCE ON CAPACITANCE

Y5P±10%(K); Y5U, Y5V±20%(M)

### DISSIPATION FACTOR

Y5P, Y5U ≤ 2.5%; Y5V ≤ 5% Measure at 25°C, 1V<sub>rms</sub>, 1KHz

### CERAMIC DIELECTRIC

Y5V Y5U Y5P (Class 2)

### CLIMATIC CATEGORY ACC. TO EN 60068-1

25/125/21

### OPERATING TEMPERATURE RANGE

-40 °C to +125 °C

### FEATURES

- Complying with IEC 60384-14 3<sup>rd</sup> edition
- High reliability
- Complete range of capacitance values
- Radial leads
- Singlelayer AC disc safety capacitors

### APPLICATIONS

- X1, Y1 according to IEC 60384-14.3
- Across-the-line
- Line by-pass
- Antenna coupling
- Network and security protection, audio visual product, Home Appliance, new energy, Industry automation, LED

### DESIGN

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper having a diameter of 0.032" (0.81 mm) or 0.025" (0.64 mm). The capacitors may be supplied with radial kinked or straight leads having a lead spacing of 0.375" (9.5 mm) or 0.250" (6.4 mm). The standard tolerance is ± 20 %. Coating is made of flame retardant epoxy resin in accordance with "UL 94 V-0".

### CAPACITANCE RANGE

10 pF to 0.010 μF

### RATED VOLTAGE

IEC 60384-14.3:

- X1: 400 V<sub>AC</sub>, 50 Hz
- Y1: 400 V<sub>AC</sub>, 50 Hz

### DIELECTRIC STRENGTH BETWEEN LEADS

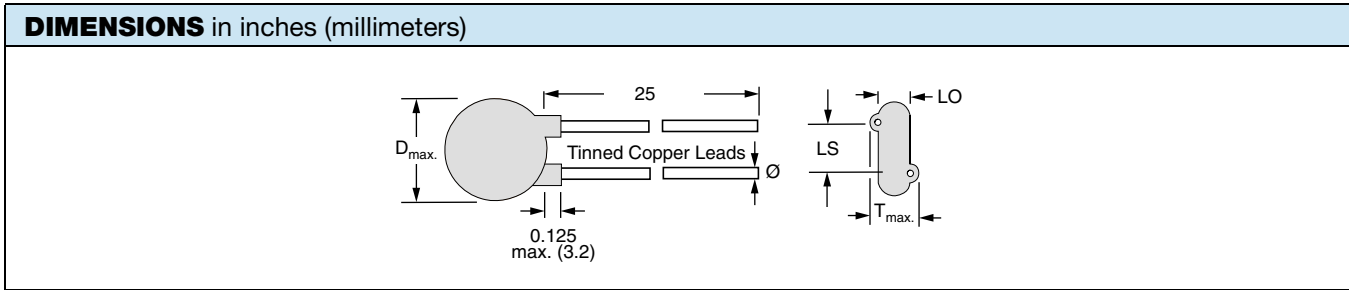
Component test:  
4000 V<sub>AC</sub>, 50 Hz, 60 s

### DIELECTRIC STRENGTH OF BODY INSULATION

2300 V<sub>AC</sub>, 50 Hz, 60 s (destructive test)



RoHS  
COMPLIANT

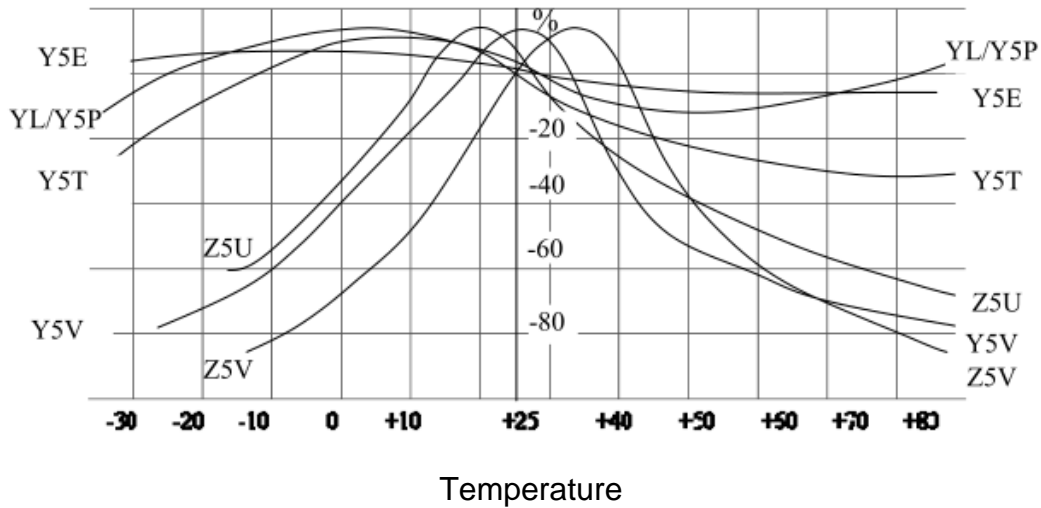


### DIMENSIONS AND CAPACITANCE










Rated: X1, Y1: AC400V Dielectric strength: 4000Vac  
 All Y5V item able to change to Y5U material upon request.

Part Number	T.C	CAP.	Dimension (mm)			
			TOL.	D.	F.	T.
JD10KY5P Y1 to JD82KY5P Y1	Y5P( $\pm 10\%$ )	10PF to 82PF	K $\pm 10\%$	6.5	9.5 $\pm 0.8$	6
JD101KY5P Y1	Y5P( $\pm 10\%$ )	100PF	K $\pm 10\%$	7.5	9.5 $\pm 0.8$	6
JD151KY5P Y1	Y5P( $\pm 10\%$ )	150PF	K $\pm 10\%$	7.5	9.5 $\pm 0.8$	6
JD221KY5P Y1	Y5P( $\pm 10\%$ )	220PF	K $\pm 10\%$	7.5	9.5 $\pm 0.8$	6
JD331KY5P Y1	Y5P( $\pm 10\%$ )	330PF	K $\pm 10\%$	7.5	9.5 $\pm 0.8$	6
JD471KY5P Y1	Y5P( $\pm 10\%$ )	470PF	K $\pm 10\%$	8.5	9.5 $\pm 0.8$	6
JD561KY5P Y1	Y5P( $\pm 10\%$ )	560PF	K $\pm 10\%$	9.5	9.5 $\pm 0.8$	6
JD681KY5P Y1	Y5P( $\pm 10\%$ )	680PF	K $\pm 10\%$	10.0	9.5 $\pm 0.8$	6
JD102KY5P Y1	Y5P( $\pm 10\%$ )	1000PF	K $\pm 10\%$	11.0	9.5 $\pm 0.8$	6
JD102MY5V Y1	Y5V(+30~-80%)	1000PF	M $\pm 20\%$	7.0	9.5 $\pm 0.8$	6
JD152MY5V Y1	Y5V(+30~-80%)	1500PF	M $\pm 20\%$	8.0	9.5 $\pm 0.8$	6
JD222MY5V Y1	Y5V(+30~-80%)	2200PF	M $\pm 20\%$	9.5	9.5 $\pm 0.8$	6
JD332MY5V Y1	Y5V(+30~-80%)	3300PF	M $\pm 20\%$	11.5	9.5 $\pm 0.8$	6
JD392MY5V Y1	Y5V(+30~-80%)	3900PF	M $\pm 20\%$	12.5	9.5 $\pm 0.8$	6
JD472MY5V Y1	Y5V(+30~-80%)	4700PF	M $\pm 20\%$	12.5	9.5 $\pm 0.8$	6

Temperature Coefficient



**APPROVED AND RECOGNISED**

Related Standard		Certificate NO.	Approved Monogram
CQC (China)	IEC 60384-14:2005	CQC08001022317	
KC (Korea)	K60384	SU03044-9001	
CSA (Canada)	CSA-22.2 No.1-98	E187963	
UL (USA)	UL1414		
VDE (Germany)	EN / IEC 60384 -14	137027	
SEMKO (Sweden)	EN 60384 -14:2005	908156	
SEV (Switzerland)	EN 60384 -14(ed.3):05	09.0784	
FIMKO (Finland)	IEC 60384 -14:2005	FI 24994 A1	
NEMKO (Norway)	EN 60384 -14:2005	P09211070	
DEMKO (Denmark)	EN 60384 -14:2005	147936-03	
FI CB	IEC 60384-14 :2005	FI 5708 A1	<b>CB</b>

**MARKING**

