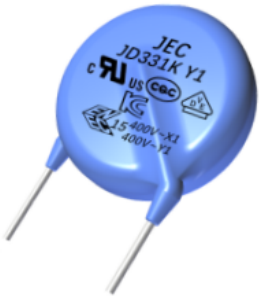
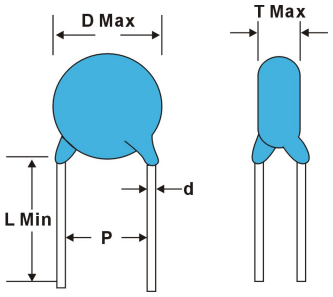
# Safety Certificated AC Capacitor
# Class X1,400Vac /Class Y1,400Vac




| QUICK REFERENCE DATA | | |
|---|---|---|
| **DESCRIPTION** | **VALUE** | |
| Ceramic Class | 2 | |
| Ceramic Dielectric | Y5V Y5U Y5P | |
| Voltage ($V_{AC}$) | 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 25C,1Vrms,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 3rd edition
- High reliability
- Complete range of capacitance values
- Radial leads
- Singlelayer AC disc safety capacitors

Pb
e3
RoHS
COMPLIANT

## 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 $V_{AC}$, 50 Hz
- Y1: 400 $V_{AC}$, 50 Hz

## DIELECTRIC STRENGTH BETWEEN LEADS

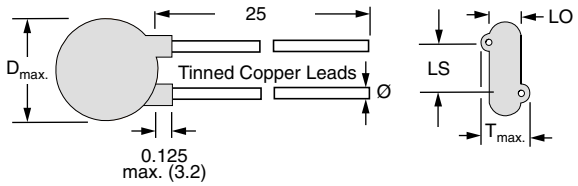
Component test:
4000 $V_{AC}$, 50 Hz, 60 s

## DIELECTRIC STRENGTH OF BODY INSULATION

2300 $V_{AC}$, 50 Hz, 60 s (destructive test)


For sales and technical contact: sales@hv-caps.com

**DIMENSIONS** in inches (millimeters)



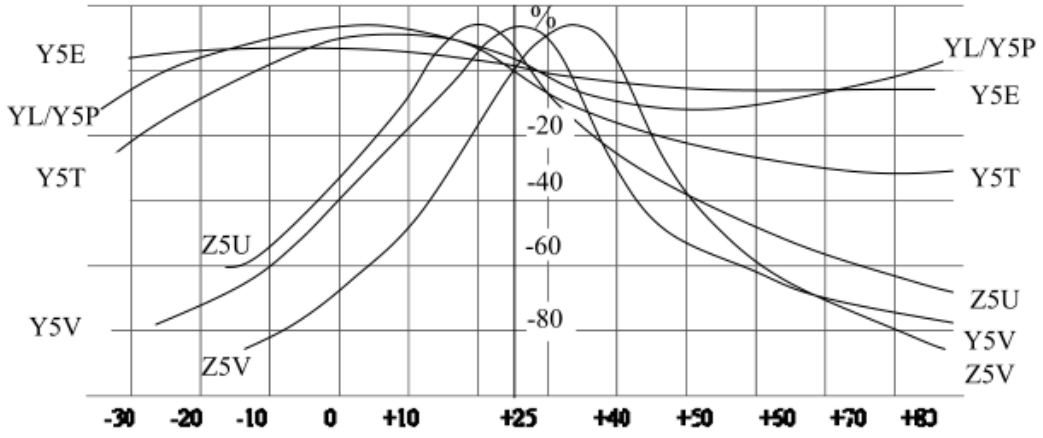

## DIMENSIONS AND CAPACITANCE

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(±10%) | 10PF to 82PF | K ±10% | 6.5 | 9.5±0.8 | 6 |
| JD101KY5P Y1 | Y5P(±10%) | 100PF | K ±10% | 7.5 | 9.5±0.8 | 6 |
| JD151KY5P Y1 | Y5P(±10%) | 150PF | K ±10% | 7.5 | 9.5±0.8 | 6 |
| JD221KY5P Y1 | Y5P(±10%) | 220PF | K ±10% | 7.5 | 9.5±0.8 | 6 |
| JD331KY5P Y1 | Y5P(±10%) | 330PF | K ±10% | 7.5 | 9.5±0.8 | 6 |
| JD471KY5P Y1 | Y5P(±10%) | 470PF | K ±10% | 8.5 | 9.5±0.8 | 6 |
| JD561KY5P Y1 | Y5P(±10%) | 560PF | K ±10% | 9.5 | 9.5±0.8 | 6 |
| JD681KY5P Y1 | Y5P(±10%) | 680PF | K ±10% | 10.0 | 9.5±0.8 | 6 |
| JD102KY5P Y1 | Y5P(±10%) | 1000PF | K ±10% | 11.0 | 9.5±0.8 | 6 |
| JD102MY5V Y1 | Y5V(+30~-80%) | 1000PF | M ±20% | 7.0 | 9.5±0.8 | 6 |
| JD152MY5V Y1 | Y5V(+30~-80%) | 1500PF | M ±20% | 8.0 | 9.5±0.8 | 6 |
| JD222MY5V Y1 | Y5V(+30~-80%) | 2200PF | M ±20% | 9.5 | 9.5±0.8 | 6 |
| JD332MY5V Y1 | Y5V(+30~-80%) | 3300PF | M ±20% | 11.5 | 9.5±0.8 | 6 |
| JD392MY5V Y1 | Y5V(+30~-80%) | 3900PF | M ±20% | 12.5 | 9.5±0.8 | 6 |
| JD472MY5V Y1 | Y5V(+30~-80%) | 4700PF | M ±20% | 12.5 | 9.5±0.8 | 6 |


For sales and technical contact: sales@hv-caps.com

Temperature Cofficient




Temperature

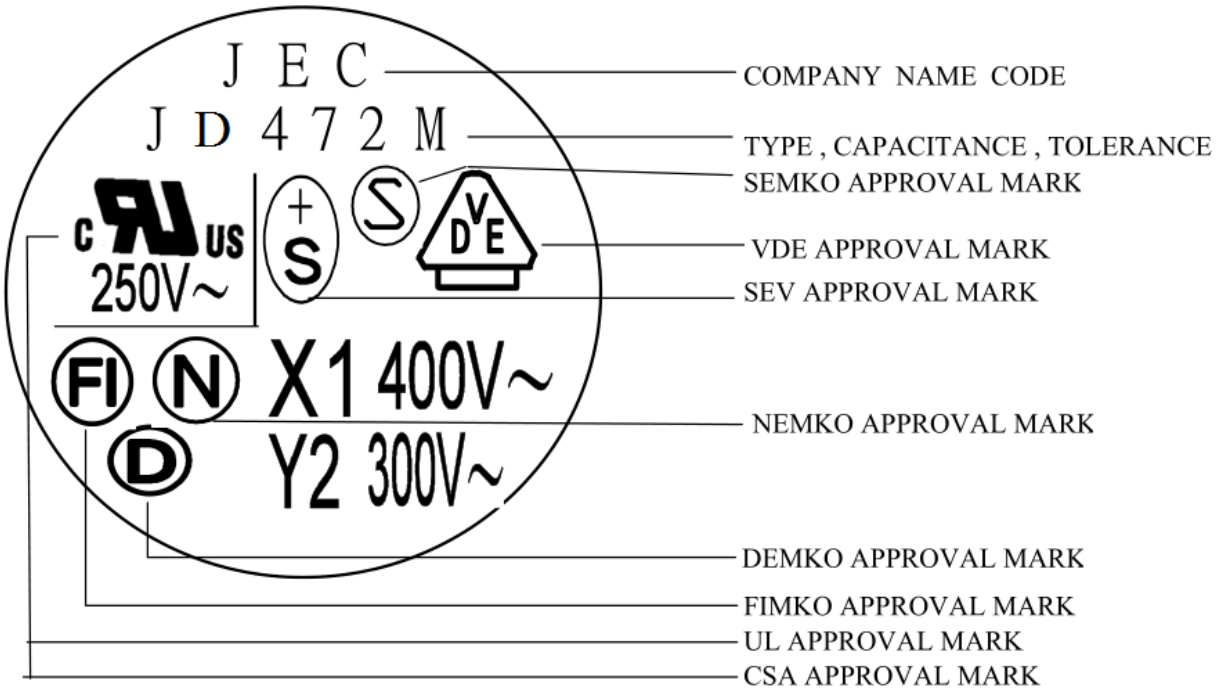
**APPROVED AND RECOGNISED**

| 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 | CB |



For sales and technical contact: sales@hv-caps.com

**MARKING**





For sales and technical contact: sales@hv-caps.com