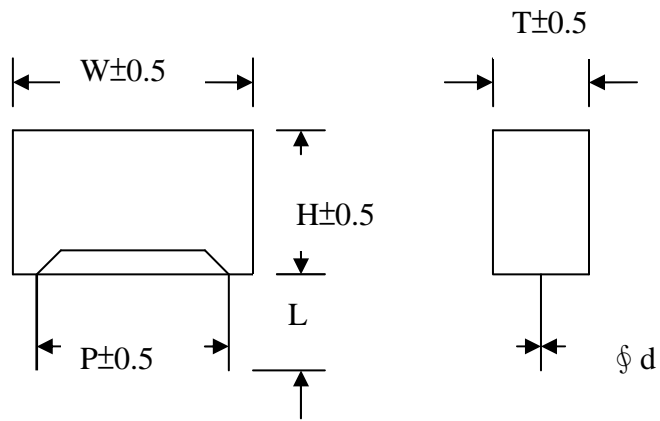
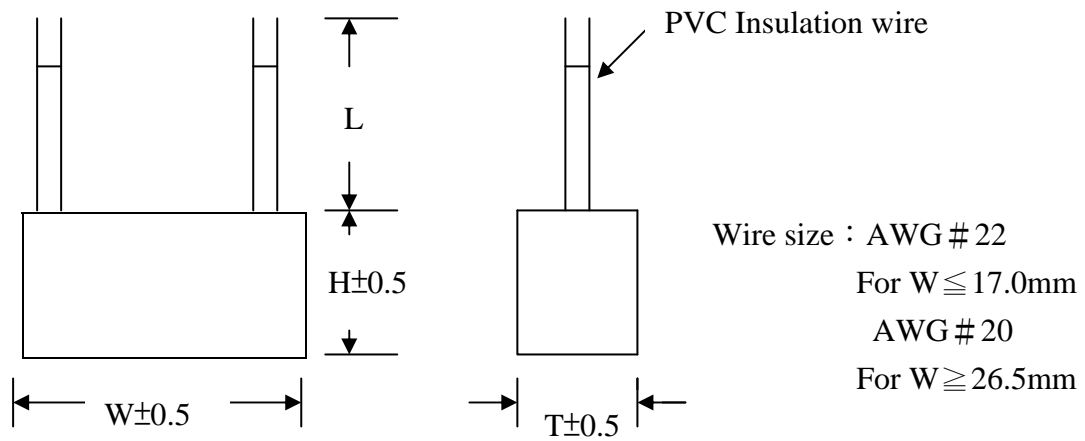


Diagram of Dimensions (Unit = mm)



Pitch and lead Dimensions (mm)

W	17.0	18.0	26.5	31.5
P	15	15	22.5	27.5
ϕd	0.8	0.8	0.8	0.8



SPECIFICATION

ACROSS-THE-LINE AND INTERFERENCE SUPPRESSION CAPACITOR **CLASS Y2 ----CTX**

1. REFERENCE STANDARDS :

UL 1414

USED FOR ACROSS-THE LINE CAPACITORS, ANTENNA-COUPPLING
AND LINE-BY-PASS COMPONENTS.

VDE IEC60384-14 (1993)

USED FOR RADIO INTERFERENCE SUPPRESSION CAPACITORS.

2. RATED VOLTAGE : 250V.AC,50/60Hz

3. CAPACITANCE RANGE : 0.0022uF~0.1uF

4. CAPACITANCE TOLERANCE : J ($\pm 5\%$) ,K ($\pm 10\%$) ,M ($\pm 20\%$)
(1KHz/20°C, VOLTAGE 1.0V.AC)

5. DIELECTRIC : METALLIZED POLYPROPYLENE FILM.

6. DISSIPATION FACTOR ($\tan \delta$) : LESS THAN 0.1% AT 1KHz/20°C
VOLTAGE 1.0VAC.

7. INSULATION RESISTANCE : BETWEEN TERMINALS

(1) LESS THAN OR EQUAL TO $0.33\mu\text{F} \geq 3 \times 10\text{K M}\Omega$.
MEASURED AT 100 ± 15 V.DC, 60 Sec./20°C

8. WITHSTAND VOLTAGE :

APPLIED 1,500V.AC FOR 1 Sec. OR 2,200V.DC FOR 1 Sec.

9. CLIMATIC CATEGORY : IN ACCORDANCE WITH DIN 40040 GMF

G (MINIMUM LIMIT TEMPERATURE) = -40°C

M (MAXIMUM LIMIT TEMPERATURE) = $+100^\circ\text{C}$

F (HUMIDITY CATEGORY) = AVERAGE RELATIVE HUMIDITY $\leq 75\%$
95% FOR 30 DAYS PER YEAR CONTINUOUSLY
85% FOR THE REMAINING DAYS OCCASIONALLY

10. DRY HEAT RESISTANCE :

IN ACCORDANCE WITH DIN 40046 SHEET 1 OR IEC 68-2-2 TEST BA.
CONDITIONS

TEST TEMPERATURE : 100 ± 2 °C

TEST DURATION : 16 HOURS

TEST CRITERIA :

(1) APPEARANCE : NO VISIBLE DAMAGE AND NO LEAKAGE

(2) WITHSTAND VOLTAGE : $0.66 \times$ RATED WITHSTAND VOLTAGE
60 Sec.

- (3) CAPACITANCE CHANGE : $\leq \pm 5\%$ OF THE INITIAL VALUE
 - (4) INSULATION RESISTANCE : $\geq 50\%$ OF INITIAL SPECIFIED VALUE.
11. COLD RESISTANCE :
- IN ACCORDANCE WITH DIN 40046 SHEET 1 OR IEC 68-2-1 TEST BA CONDITIONS
- TEST TEMPERATURE : -40 ± 2 °C
- TEST DURATION : 2 HOURS
- TEST CRITERIA :
- (1) APPEARANCE : NO VISIBLE DAMAGE
 - (2) WITHSTAND VOLTAGE : $0.66 \times$ RATED WITHSTAND VOLTAGE 60 Sec.
 - (3) CAPACITANCE CHANGE : $\leq \pm 5\%$ OF THE INITIAL VALUE
12. HUMIDITY TEST CONDITIONS :
- TEST TEMPERATURE : $40^\circ\text{C} \pm 2$ °C
- RELATIVE HUMIDITY : 90 - 95%
- TEST DURATION : 500 HOURS
- TEST CRITERIA :
- (1) WITHSTAND VOLTAGE : $0.66 \times$ RATED WITHSTAND VOLTAGE 60 Sec.
 - (2) CAPACITANCE DRIFT : $\leq \pm 5\%$ OF THE INITIAL VALUE
 - (3) DISSIPATION FACTOR : $\leq 200\%$ OF INITIAL SPECIFIED VALUE
 - (4) INSULATION RESISTANCE : $\geq 50\%$ OF INITIAL SPECIFIED VALUE.
13. LIFE TEST CONDITIONS :
- TEST TEMPERATURE : $100^\circ\text{C} \pm 3$ °C
- TEST VOLTAGE : 425 V.AC AND 1,000 V.AC/60 Hz FOR A PERIOD OF 0.1 Sec. ONCE EACH HOUR
- TEST DURATION : 1,000 HOURS
- TEST CRITERIA :
- (1) APPEARANCE : NO VISIBLE DAMAGE AND NO LEAKAGE
 - (2) WITHSTAND VOLTAGE : $0.66 \times$ RATED WITHSTAND VOLTAGE 60 Sec.
 - (3) CAPACITANCE DRIFT : $\leq \pm 3\%$ OF THE INITIAL VALUE
 - (4) DISSIPATION FACTOR : $\leq 0.6 \times 10$ (0.06%) OF INCREASED VALUE
 - (5) INSULATION RESISTANCE : $\geq 50\%$ OF SPECIFIED VALUE
14. SOLDERABILITY CONDITIONS :

SOLDER BATH TEMPERATURE & MATERIAL :

230 ± 5°C, 60% OF TIN (Sn) + 40% OF LEAD (Pb)

SOLDER BATH TEMPERATURE & MATERIAL :

270 ± 5°C, 99.96% OF TIN (Sn) + 0.04% OF SILVER (Ag)

SOLDER TIME : 3 ± 0.5 Sec. TEST CRITERIA : 75% OF THE SURFACE
TINNING.

15. SOLDERING HEAT RESISTANCE :

IN ACCORDANCE WITH DIN 40046 SHEET 18 OR IEC 68-2-20 TEST TA.1
& TB.1

CONDITIONS

SOLDER BATH TEMPERATURE : 260 ± 5°C

SOLDER TIME : 5 ± 1 Sec.

CAPACITANCE BODY MAY LIE ON PRINTING CIRCUIT BOARD

TEST CRITERIA :

(1) APPEARANCE : NO DAMAGE AND GOOD TINNING

(2) CAPACITANCE CHANGE : ≤ ±3% OF THE INITIAL VALUE

16. VIBRATION RESISTANCE :

IN ACCORDANCE WITH DIN 40046 SHEET 8 OR IEC 68-2-6 TEST FC
CONDITIONS

FREQUENCY RANGE : 10 — 55 Hz

DISPLACEMENT AMPLITUDE : 0.75mm

CONFORMING TO MAX. : 10g

TEST DURATION : 6 HOURS

TEST CRITERIA :

(1) APPEARANCE : NO VISIBLE DAMAGE

(2) CAPACITANCE CHANGE : ≤ ±2% OF THE INITIAL VALUE

17. TENSILE STRENGTH OF TERMINALS

IN ACCORDANCE WITH DIN 40046 SHEET 19 OR IEC 68-2-21 TEST UA.1
CONDITIONS

TERMINAL DIA. (mm)	LOAD FORCE KG (N)	HOLDING TIMES Sec.
≤0.5	0.5 (5)	10
>0.5 TO <0.8	1.0 (10)	10
>0.8	2.0 (20)	20

TEST CRITERIA :

NO WIRE BREAKAGE AND NO DAMAGE OF CAPACITOR

18. BENDING OF TERMINALS

IN ACCORDANCE WITH DIN 40046 SHEET 19 OR IEC 68-2-21 TEST UB.

CONDITIONS

LOAD FORCE : 0.5 KG (5N)

BENDING TIME : TWO CONSECUTIVE BENDS (4 × 90°)

TEST CRITERIA :

NO WIRE BREAKAGE AND DAMAGE OF CAPACITOR

19. MARKING :

CAPACITORS ARE MARKED WITH TYPE IDENTIFICATION

CAPACITANCE,CAPACITANCE TOLERANCE,RATED VOLTAGE OF

MANUFACTURE,DATE OF MANUFACTURE AND APPROVED CERTIFI-

CATION MARKS.

20. APPROVED BY :

UL FILE NO. E222897

Y2 CASE SIZE OF STANDARD PRODUCTS

Product No	Cap.	Volt.	Tol.	Dimensions				
	uF	VAC	± %	W±0.5	H±0.5	T±0.5	P	d φ
CTX222K250YP15	0.0022	250	10	18.0	12	6.0	15	0.8
CTX332K250YP15	0.0033	250	10	18.0	13.5	6.0	15	0.8
CTX472K250VP10	0.0047	250	10	13	11	5	10	0.6
CTX472K250YP15	0.0047	250	10	18.0	13.5	6.0	15	0.8
CTX562K250YP15	0.0056	250	10	17.0	15.5	7.5	15	0.8
CTX682K250YP15	0.0068	250	10	17.0	15.5	7.5	15	0.8
CTX103K250YP10	0.01	250	10	13.0	11.0	5.0	10	0.6
CTX103K250YP15	0.01	250	10	17.0	16.5	9.5	15	0.8
CTX153K250YP15	0.015	250	10	17.0	19.0	11	15	0.8
CTX223K250YP225	0.022	250	10	26.5	16.5	7	22.5	0.8
CTX333K250YP225	0.033	250	10	26.5	19.0	10	22.5	0.8
CTX473K250YP225	0.047	250	10	26.5	19.0	10	22.5	0.8
CTX563K250YP275	0.056	250	10	31.5	20	11	27.5	0.8
CTX683K250YP275	0.068	250	10	31.5	20	11	27.5	0.8
CTX104K250YP275	0.1	250	10	31.5	25	14	27.5	0.8