

Multilayer Ceramic Chip Trimmer Capacitors **AVX** **KYOCERA**

CTZ2 Series

Four Basic Types:

- | | | |
|---------|----------------------------|--|
| CTZ2-P | — [CTZ2S-P
CTZ2E-P] | Philips Adjust. |
| CTZ2-A | — [CTZ2S-A
CTZ2E-A] | Setting drift 1%
w/ Philips Adjust. |
| CTZ2-P1 | — [CTZ2S-P1
CTZ2E-P1] | Low profile
w/ Philips Adjust. |
| CTZ2-PR | — [CTZ2S-PR
CTZ2E-PR] | Reverse ultra thin
w/ Philips Adjust. |



How To Order:

CTZ2 E - 03 A - W 2 - P

Optional

- P = Philips adjust
- A = Setting drift $\pm 1\%$ (Philips adjust)
- P1 = Ultra thin 1.0mm max.
- PR = Reverse type (Bottom adjust)

Standard Packaged Quantity

- 2 = 2000 pcs

Packaging Method

- B = Bulk
- W = Taping (W direction)
- X = Taping (X direction)

Temperature Characteristic

- A = NPO ± 500 ppm/ $^{\circ}\text{C}$
- C = N750 ± 500 ppm/ $^{\circ}\text{C}$

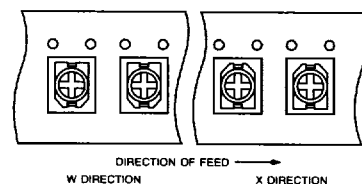
Maximum Capacitance

- 03 = 3pF, +100, -0%
- 05 = 5pF, +100, -0%
- 10 = 10pF, +100, -0%
- 20 = 20pF, +100, -0%
- 30 = 30pF, +100, -0%

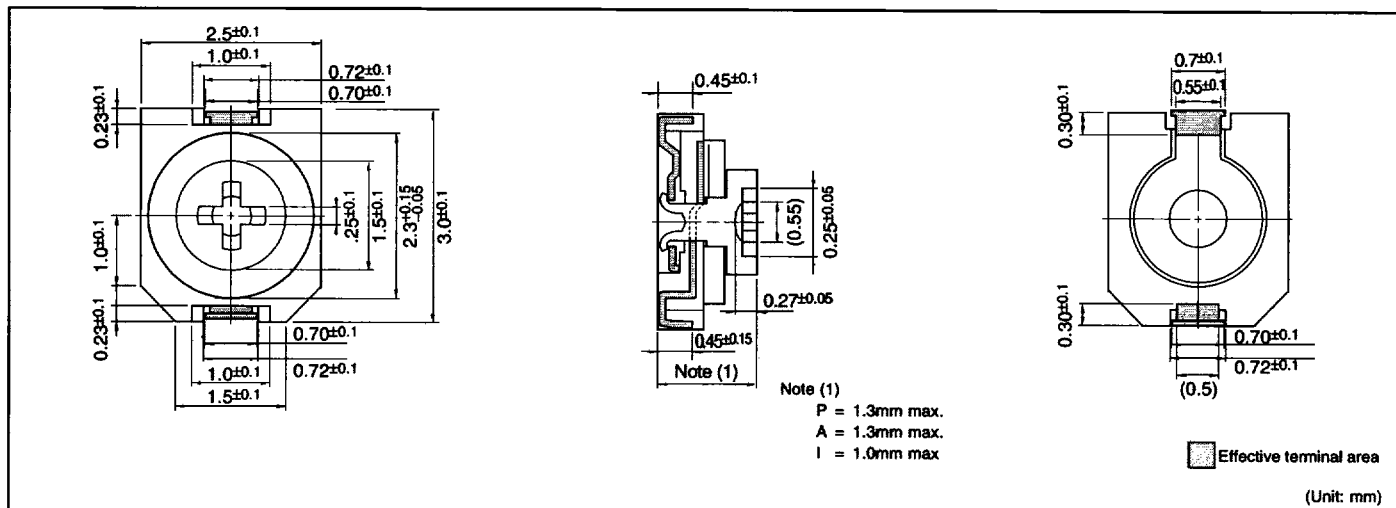
Type

- S = Reflow non-washable type
- E = Reflow washable type

CTZ2 Series



Philips Adjustment Dimensions



Multilayer Ceramic Chip Trimmer Capacitors

CTZ2 Series

Specifications

Type CTZ2-A (max. height 1.3mm, 1% setting drift)

Part number	Min. cap. value (pF)	Max. cap. value (pF)	TC (ppm/°C)
CTZ2□-03A	2	3	NP0±500
CTZ2□-05A	3	5	NP0±500
CTZ2□-05C	2.5	5	N750±500
CTZ2□-10A	3	10	NP0±500
CTZ2□-10C	5	10	N750±500
CTZ2□-20C	5.5	20	N750±500
CTZ2□-30C	7	30	N750±500

Type CTZ2-P (max. height 1.3mm)

Part number	Min. cap. value (pF)	Max. cap. value (pF)	TC (ppm/°C)
CTZ2□-03A	2	3	NP0±500
CTZ2□-05A	3	5	NP0±500
CTZ2□-05C	2.5	5	N750±500
CTZ2□-10A	3	10	NP0±500
CTZ2□-10C	5	10	N750±500
CTZ2□-20C	5.5	20	N750±500
CTZ2□-30C	7	30	N750±500

Type CTZ2-P1 (max. height 1.0mm)

Part number	Min. cap. value (pF)	Max. cap. value (pF)	TC (ppm/°C)
CTZ2□-03A	2	3	NP0±500
CTZ2□-05A	3	5	NP0±500
CTZ2□-05C	2.5	5	N750±500
CTZ2□-10A	3	10	NP0±500
CTZ2□-10C	5	10	N750±500
CTZ2□-20C	5	20	N750±500
CTZ2□-30C	7	30	N750±500

Type CTZ2-PR

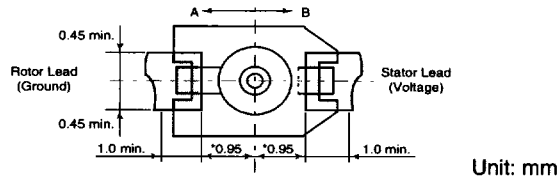
Part number	Min. cap. value (pF)	Max. cap. value (pF)	TC (ppm/°C)
CTZ2□-03A	2	3	NP0±500
CTZ2□-05A	3	5	NP0±500
CTZ2□-05C	2.5	5	N750±500
CTZ2□-10A	3	10	NP0±500
CTZ2□-10C	5	10	N750±500
CTZ2□-20C	5	20	N750±500
CTZ2□-30C	7	30	N750±500

CTZ2-P/A/P1 Series

Conditions and Precautions

Mounting Pattern:

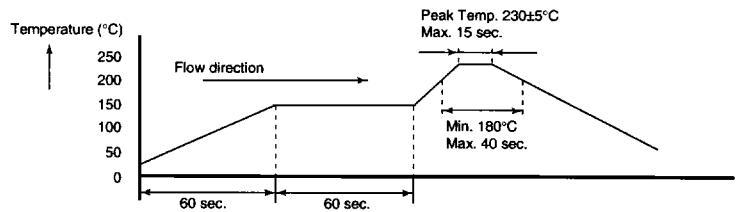
1) Recommended pattern:



- 2) Determine if there is adequate room for mounting according to pattern dimensions and set pattern dimensions.
- 3) Connect stator terminal to voltage, rotor terminal to ground.
- 4) Make sure that the solder cream for coating is sufficient. (We recommend 150 μ m.)
- 5) Take caution that the solder flux and adhesive paste does not flow in between rotor and stator.

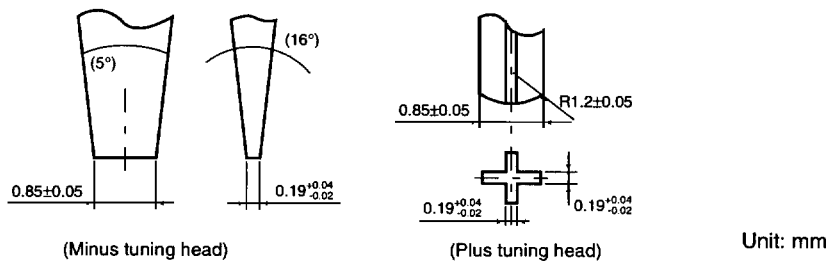
Soldering:

- 1) Recommended reflow temperature curve.
- 2) Recommended hand soldering conditions: tip temperature 270 \pm 5 $^{\circ}$, soldering time less than 5 seconds.



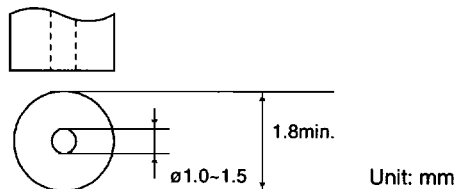
Adjustment:

- 1) After removing from reflow, let cool to room temperature (at least 4 hrs.) before adjustment.
- 2) Maximum pressure of screwdriver should be less than 100g.
- 3) Recommended screwdriver head dimensions:



Mounting:

1) Recommended adhesive nozzle procedure:



2) Mechanical centering method: when mounting automatically with mechanical centering method, adjust so that the centering hook touches the stator (take caution that centering hook does not touch lead).

CTZ2-PR Series

Conditions and Precautions

Mounting Pattern:

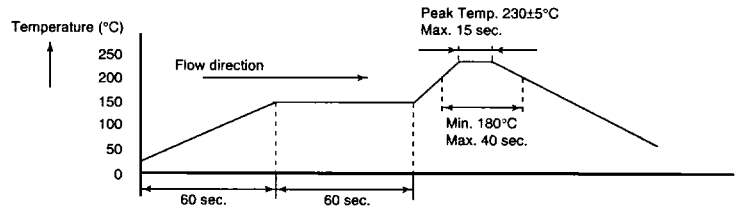
1) Recommended pattern:



- 2) Determine if there is adequate room for mounting according to pattern dimensions and set pattern dimensions.
- 3) Connect stator terminal to voltage, rotor terminal to ground.
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- 5) Take caution that the solder flux and adhesive paste does not flow in between rotor and stator.

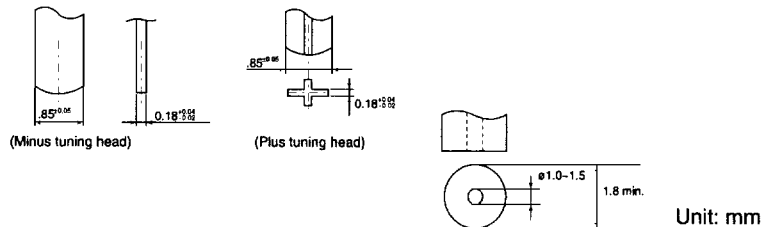
Soldering:

- 1) Recommended reflow temperature curve.
- 2) Recommended hand soldering conditions: tip temperature $270 \pm 5^\circ$, soldering time less than 5 seconds.



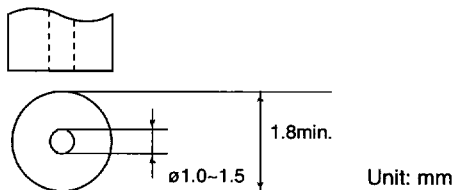
Adjustment:

- 1) After removing from reflow, let cool to room temperature (at least 4 hrs.) before adjustment.
- 2) Maximum pressure of screwdriver should be less than 100g.
- 3) Recommended screwdriver head dimensions:



Mounting:

1) Recommended adhesive nozzle procedure:



2) Mechanical centering method: when mounting automatically with mechanical centering method, adjust so that the centering hook touches the stator (take caution that centering hook does not touch lead).

