



Features

- SMD small & thin package
- Wide capacitance range
- Washable and non-washable types available
- Plus slot (+) suitable for auto-adjustment

Applications

- AV Equipment
- Cellular Phone
- Cordless Phone
- TCXO
- Keyless Entry

Specifications

		Capacita	ance (pF)	Q	Temperature	
Part No.		C max.	C min.	1±0.1 (MHz)	Coefficient (ppm/ °C)	
	03A	3 +100%	2.0 max.	≥150	NPO±500	
CTZ2	05A	5 +100%	3.0 max.	≥150	NPO±500	
S/E	10A	10 +100%	3.0 max.	≥150	NPO±500	
	20C	20 +100%	5.5 max.	≥150	N750±500	
	03A	3 +100%	1.0 max.	≥300	NPO±500	
	05A	5 +100%	1.5 max.	≥300	NPO±500	
	10A	10 +100%	2.5 max.	≥300	NPO±500	
CTZ3	10B	10 +100%	1.5 max.	≥300	N400±500	
S/E	20C	20 +100%	4.5 max.	≥300	N750±500	
	30C	30 +100%	4.5 max.	≥300	N750±500	
	40C	40 +100%	4.5 max.	≥300	N750±500	
50C		50 +100%	4.5 max.	≥200	N750±500	

Series	Rated Voltage (V•DC)	Temperature Range (°C)	Insulation Resistance (MΩ)	Torque (g•cm)
CTZ2S/ E	25	-40 to +85	≥10⁴	10 to 150
CTZ3S/E	25	-40 to +85	≥10 ⁴	10 to 150

How to Order

1 Series

CTZ3	CTZ3 Series
CTZ2	CTZ2 Series

② Type

S	Reflow non washable type
E	Reflow washable type

③ Maximum Capacitance

03	3pF	30	30pF
05	5pF	40	40pF
10	10pF	50	50pF
20	20pF		

4 Temperature Coefficient (ppm/°C)

Α	NPO±500	_	N750±500
В	N400±500		14750±500

⑤ Packaging

W	W Direction Taping				
X	X Direction Taping				
В	Bulk				

(6) Taping Quantity (Unit: pcs.)

1	1,000	CTZ3 Series
2	2,000	CTZ2 Series

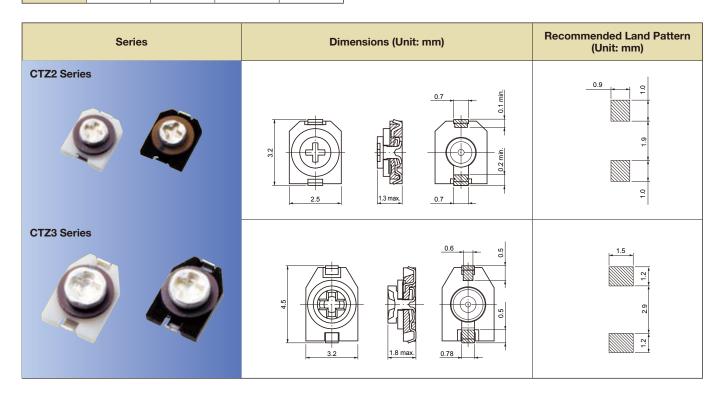
7 Pin Head Type

Р	Plus Slot

8 Lead Specification

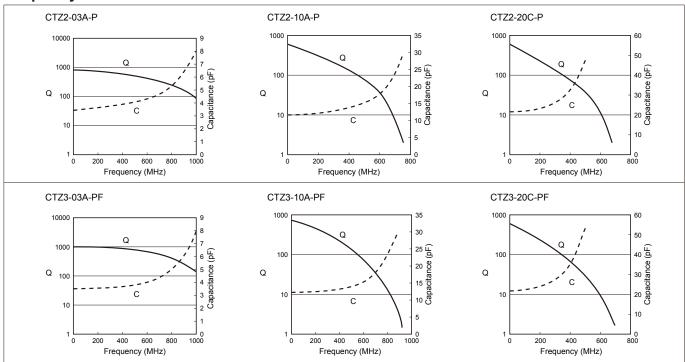
F	Lead Forming Type (CTZ3 type)
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^{* (8)} is denoted by space for CTZ2 series.

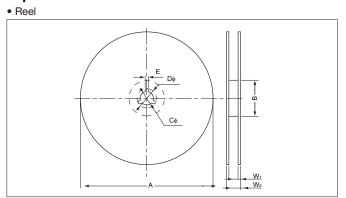




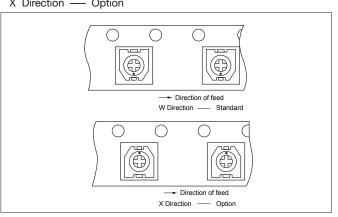
Frequency Characteristics

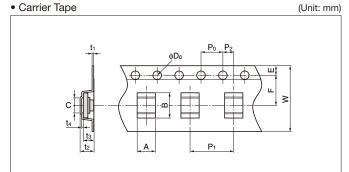


Tape & Reel



Tape LoadingW Direction — StandardX Direction — Option





	CTZ2 Series	CTZ3 Series		
Α	2.7±0.1	3.35±0.1		
В	3.2±0.1	4.6 +0.2 -0.0		
W	12.0±0.3	12.0±0.3		
F	5.5±0.05	5.5±0.05		
E	1.75±0.1	1.75±0.1		
Po	4.0±0.1	4.0±0.1		
P ₁	4.0±0.1	8.0±0.1		
P ₂	2.0±0.05	2.0±0.05		
$\phi \mathbf{D}_0$	1.5 +0.1	1.5 +0.1		
t ₁	0.3±0.1	0.3±0.1		
t ₂	1.9±0.1	2.5±0.1		
t ₃	1.3 +0.15	2.0±0.1		
t ₄	0.3±0.1	0.3±0.05		
С	2.06±0.1	2.7±0.1		

(Unit: mm)

	Α	В	С	D	E	W ₁	W ₂
CTZ2 Series (2,000 pcs.)	100 +0.0	60.0 +1.0	13.0±0.2	21.0±0.8	2.0±0.5	13.0±0.3	15.4±1.0
CTZ3 Series (1,000 pcs.)	180 +0.0	13.0±0.2	21.0±0.6	2.0±0.5	13.0±0.3	13.4±1.0	

Trimmer Capacitors

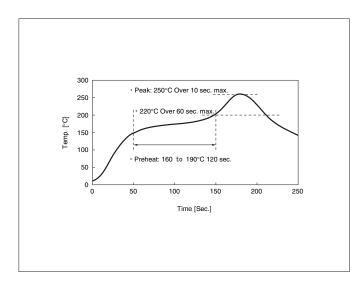


PCB Mounting

- When our recommended landpattern is not used, please check mounting alignment.
- When mounting on PCB, please do not apply pressure to trimmer capacitors over 500g.f.

Soldering

- When using soldering iron, adjust iron tip to 280°C max.
- Please find below recommended solder profile.



Storage Conditions

- 1) Do not store components in corrosive condition such as chloric or sulfuric environment.
- Components before use should be stored under the condition with temperature of 5 to 40 degrees Celsius and humidity of 20 to 70% RH.
- 3) It is recommended to use components within 6 months of incoming.
- 4) Do not open the minimal package until right before the use.
- 5) Do not store components under direct sunlight or dewy environment.

Screwdrivers

Please use proper screwdriver for adjustment of the capacitor. Kyocera can supply suitable ceramic type screwdrivers specially designed for the use of CTZ series. Please contact your local AVX office for the details.

CTZ3

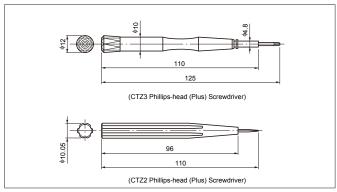
Pin Head

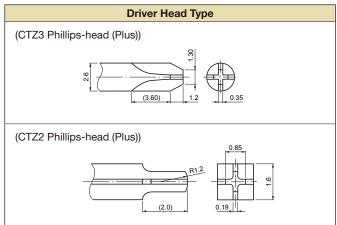
⊕: CTZ3 Phillips-head (Plus) Ceramic Screwdriver

CTZ2

Pin Head

⊕: CTZ2 Phillips-head (Plus) Ceramic Screwdriver





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

CTZ-2-DRIVER CTZ2E-10A-X2-P CTZ3E-05A-W1-PF CTZ3E-10A-W1-PF CTZ3E-40C-W1-PF CTZ3E-50C-W1-PF CTZ3E-03A-W1-PF CTZ3E-10A-W5-PF CTZ3E-10B-W1-PF CTZ3E-20C-W1-PF CTZ3E-30C-W1-PF CTZ3S-05A-W1-PF CTZ3S-10A-W1-PF CTZ3S-40C-W1-PF CTZ3E-05C-W1-PF CTZ3E-10A-X1-PF CTZ3E-10C-W1-PF CTZ3S-05A-W5-PF CTZ3S-05C-W1-PF CTZ3S-10A-X1-PF CTZ3S-10B-W1-PF CTZ3S-20C-X1-PF CTZ3S-30C-W1-PF CTZ3S-40C-X1-PF CTZ3S-50C-X1-PF