

muRata

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■ Notice (Storage and Operating Condition)

1. Do not use the trimmer capacitor under atmosphere of RTV silicone rubber (Room Temperature Vulcanizing Silicone Rubber) except Acetone liberating silicone sealant.
2. Before using trimmer capacitor, please store under the condition of -10 to +40 degrees C and 30 to 85%RH.
3. Do not store in or near corrosive gasses.
4. Use within 6 months of delivery.
5. Do not store under direct sunlight.

■ Notice (Soldering and Mounting)

1. Soldering
 - (1) TZW4 series can be soldered by reflow soldering method and soldering iron. Do not use flow soldering method (dipping).
 - (2) Soldering condition
Refer to the temperature profile.
If the soldering conditions are not suitable, e.g., excessive time and/or excessive temperature, the trimmer capacitor may deviate from the specified characteristics.
 - (3) The amount of solder is critical.
 - (4) The thickness of solder paste should be printed from 150 micro m to 200 micro m and the dimension of land pattern should be Murata's standard land pattern used at reflow soldering.
Insufficient amounts of solder can lead to insufficient soldering strength on PCB.
Excessive amounts of solder may cause bridging between the terminals or contact failure due to flux wicking up.
 - (5) When using soldering iron, the diameter of the string solder should be less than 0.5mm. The string solder should be applied to the lower part of the terminal only. Do not apply flux except to the terminals. Excessive amounts of solder and/or applying solder to the upper part

6. Do not use the trimmer capacitor under the conditions listed below.
 - (1) Corrosive gasses atmosphere
(Ex. Chlorine gas, Hydrogen sulfide gas, Ammonia gas, Sulfuric acid gas, Nitric oxide gas, etc.)
 - (2) In liquid (Ex. water, oil, medical liquid, organic solvent, etc.)
 - (3) Dusty/dirty atmosphere
 - (4) Direct sunlight
 - (5) Static voltage nor electric/magnetic fields
 - (6) Direct sea breeze
 - (7) Other variations of the above

of the terminal may cause fixed metal rotor or the contact failure due to flux invasion into the movable part and/or the contact point. The soldering iron should not come in contact with the monolithic stator of the trimmer capacitor. If such contact does occur, the trimmer capacitor may be damaged.

- (6) Our recommended chlorine content of solder is as follows.
 - (a) Solder paste: 0.2wt% max.
 - (b) String solder: 0.5wt% max.
 - (7) Do not use water-soluble flux (for water cleaning). To prevent the deterioration of trimmer capacitor characteristics, apply flux only to terminals.
2. Mounting
 - (1) Do not apply excessive force (preferably 5.0 N [Ref: 500gf] max.), when the trimmer capacitor is mounted on the PCB.
 - (2) Do not warp and/or bend PCB to prevent trimmer capacitor from breaking.
 - (3) Use the suitable dimension of the pick-up nozzle (1.8mm external diameter and 1.1mm bore diameter).

3. Cleaning
Cannot be cleaned because of open construction.

■ Notice (Handling)

1. Use suitable screwdrivers that fit comfortably in driver slot.
-Recommended screwdriver for manual adjustment
VESSEL: No.9000 -1.3x30
(Murata: KMDR130)
2. When adjusting with a screwdriver, do not apply excessive force (preferably 1.0 N [Ref: 100gf] max.) to minimize capacitance drift. If excessive force applied to the screwdriver slot, it may cause deformation of the products.

3. Do not apply adhesive, lock paints, or any other substances to the trimmer capacitor to secure the rotor position. They may cause corrosion or electrical contact problems.

■ Notice (Other)

Before using trimmer capacitor, please test after assembly in your particular mass production system.