

# OUTLINE

## TRIMMER POTENTIOMETERS

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### ■ Cermet trimmer potentiometers

COPAL ELECTRONICS brings extensive thick film technology, lead connection technology, contact technology, sealing technology, wiper technology, and others to its lineup of cermet trimmer potentiometers.

Keeping pace with advances in information equipment, IC, LSI, microcomputer control and other advances, increased functions, and miniaturization of equipment, COPAL ELECTRONICS cermet trimmer potentiometers come in an increasing number of variations from through hole pin types, to surface mount and chip types, responding to the needs of a wide range of equipment.

Cermet trimmer potentiometers have the following characteristics in general:

- Wide resistance range
- Excellent environment characteristics
- Essentially infinite resolution

At the same time, the use of glass in thick film resistor devices means that wiper noise can occur easily. However, COPAL ELECTRONICS products minimize this noise using multi-contact wiper technology.

COPAL ELECTRONICS cermet trimmer potentiometers cover a wide range of manufacturing conditions and use environments, with sealed construction for higher reliability.

Each basic configuration has the following features.

### ■ SURFACE MOUNT TYPE

COPAL ELECTRONICS provides an extremely thin and compact trimmer on your SM board. O-ring sealing and high temperature resistance allow to handle this component with the same soldering and cleaning methods of other SMD's.

### ■ SINGLE TURN TYPE

The wiper is directly attached to the rotor and travels on a circular resistance element. Despite some difficulty in fine adjustment this type is being widely used because of its simple construction and low price.

### ■ RECTANGULAR MULTITURN TYPE

The lead screw actuates the wiper to travel in a linear motion on a straight resistive track.

This type provides fine adjustment and is used for high precision equipment.

### ■ SQUARE MULTITURN TYPE

The adjustment screw actuates a worm gear which turns a wiper assembly on a circular resistive element. This type allows fine adjustment and offers advantages over the rectangular type with respect to the board space, mounting location and the direction of adjustment.