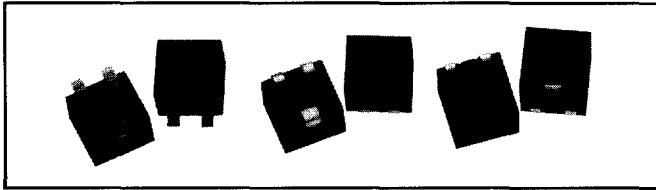




Cermet Trimmers

Surface Mount, 4.0mm Square Design, Multi Turn, Sealed, Industrial Grade



FEATURES

- Sealed to withstand board wash processing.
- Excellent stability.
- Low temperature coefficient.
- Low CRV, 1%.
- Top and side adjust styles.
- J-hook and gull-wing configurations.

ELECTRICAL SPECIFICATIONS

Resistance Range: 10 ohms to 1M ohm.
(See Standard Resistance Table.)

Tolerance: ± 10% standard.

Temperature Coefficient: ± 70PPM/°C.

Power Rating: (300 volts maximum) 0.25 watt @ + 85°C.
0 watt @ + 155°C.

Contact Resistance Variation (CRV): 1% or 3 ohms maximum.

Resolution: Infinite.

Insulation Resistance (500 VDC): 10⁶M ohms.

Dielectric Strength: Sea level 600 VAC (1 minute).

Electrical Travel: 11 turns nominal.

MECHANICAL SPECIFICATIONS

End Stop Torque: Clutch action.

Operating Torque: 1 Ncm maximum.

Weight: Approximately 0.01 ounce.

SOLDERING RECOMMENDATION

Vapor phase: 215°C/20 to 40 seconds.

Reflow: 230°C/20 seconds.

Do not exceed peak 260°C.

ENVIRONMENTAL SPECIFICATIONS

Temperature Range: - 65°C to + 155°C.

Humidity: MIL-STD-202, Method 106 (total resistance shift ± 2%, insulation resistance 10M ohms).

Vibration: 20 G (total resistance shift ± 1%, voltage resistance shift ± 1%).

Shock: 100 G (total resistance shift ± 1%, voltage resistance shift ± 1%).

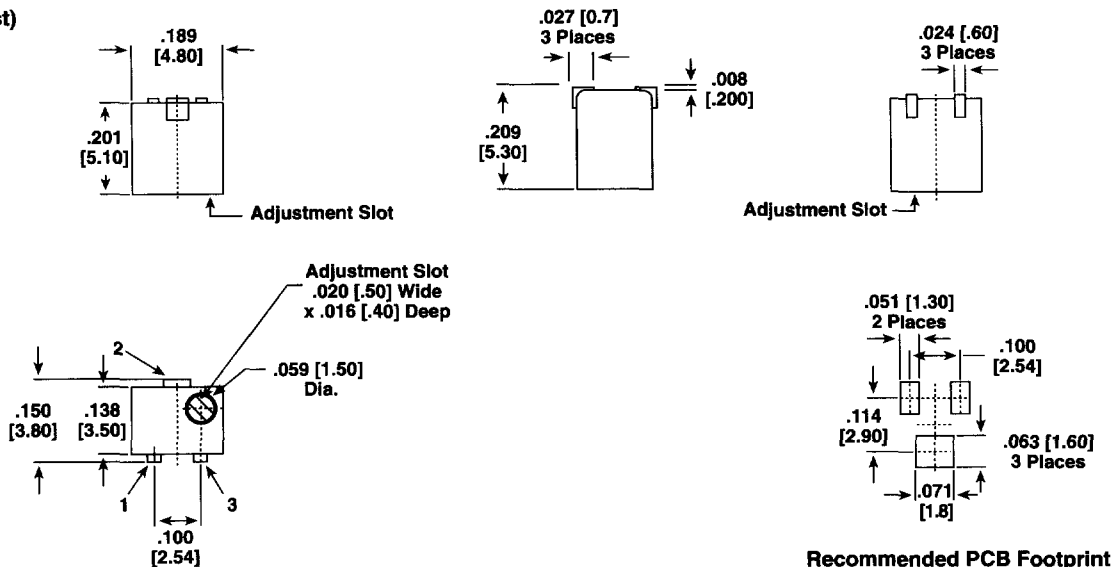
Load Life: @ + 85°C rated power 1000 hours (total resistance shift 3 ohms or ± 3%, whichever is greater).

Rotational Cycling: 100 cycles (total resistance shift 3 ohms or 3%, whichever is greater).

Thermal Shock: 5 cycles (total resistance shift ± 2%, voltage resistance shift ± 1%).

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters] (Third Angle Projection)

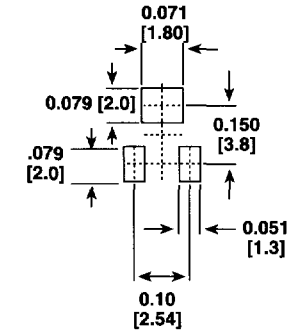
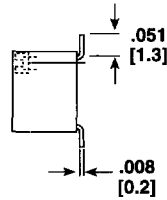
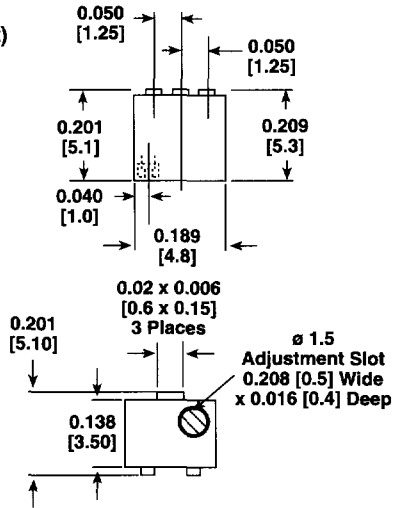
TSM53YJ
(Top Adjust)



NOTE: All tolerances are ± .012" [0.30mm] unless otherwise specified.

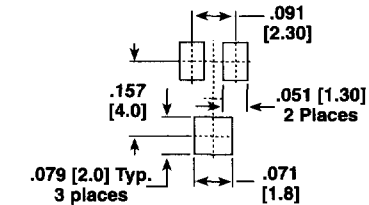
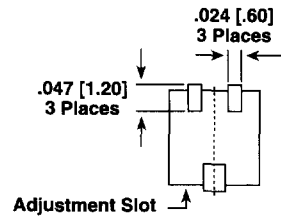
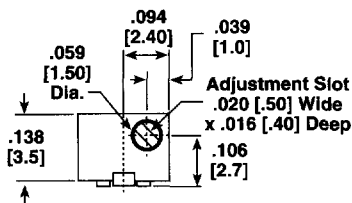
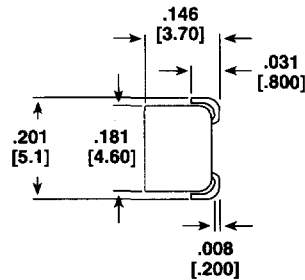
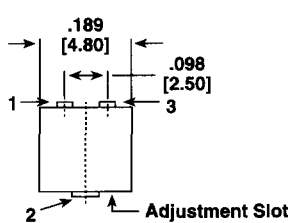
DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters] (Third Angle Projection)

TSM53YL
(Side Adjust)



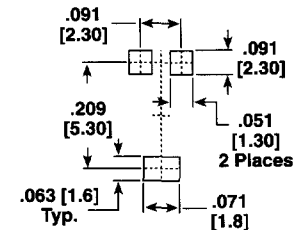
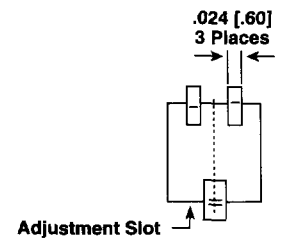
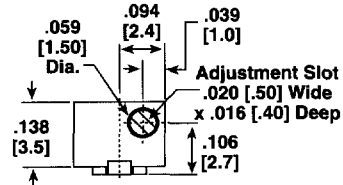
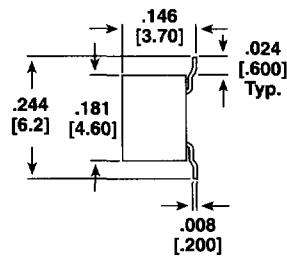
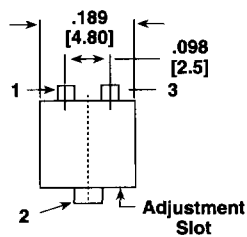
Recommended PCB Footprint

TSM53ZJ
(Side Adjust)



Recommended PCB Footprint

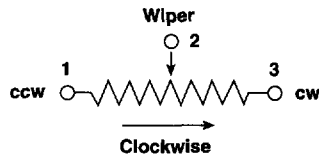
TSM53ZL
(Side Adjust)



Recommended PCB Footprint

NOTE: All tolerances are $\pm .012"$ [0.30mm] unless otherwise specified.

CIRCUIT DIAGRAM

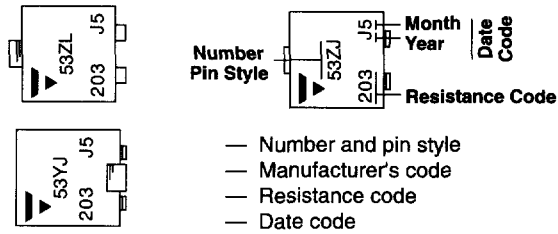


STANDARD RESISTANCE TABLE

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1000	102
2000	202
5000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

NOTE: Special resistances available.

PART MARKING



HOW TO ORDER

TSM53 **YJ** — **500K** — **10** — **RB2**
 MODEL PIN STYLE — VALUE — TOLERANCE — PACKAGING ORDER CODE

PACKAGING

Standard Packaging = Tape and Reel.

Packaging Quantity :

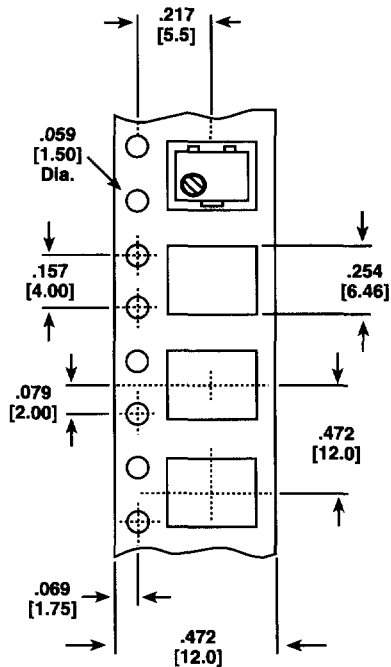
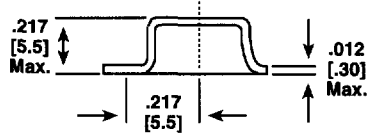
Pin Styles ZL, ZJ = 500 pieces, order code RB2.

Pin Styles YL, YJ = 250 pieces, order code RG1.

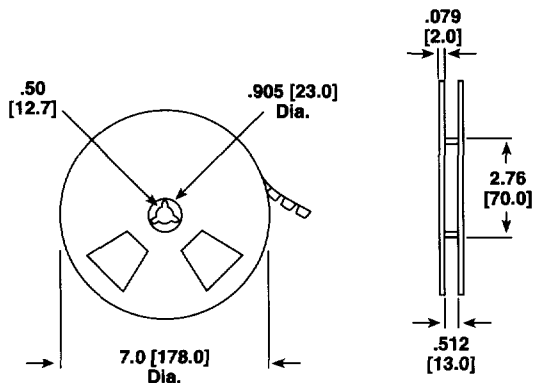
Contact factory for other available options.

PACKAGING [Numbers in brackets indicate millimeters]

TSM53Y
Tape

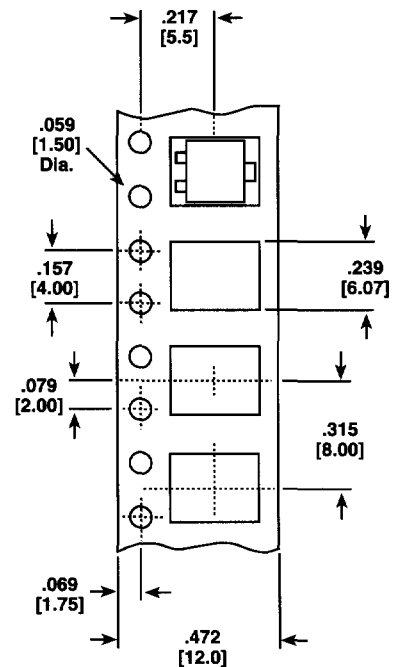
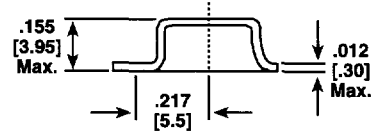


Reel

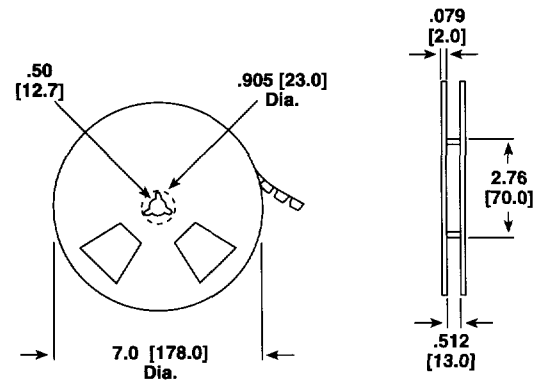


250 Pieces per 7" reel standard.
Meets EIA Specification 481. Cover tape peel strength.

TSM53Z
Tape



Reel



500 Pieces per 7" reel standard.
Meets EIA Specification 481. Cover tape peel strength.

NOTE: Specifications are subject to change without notice.