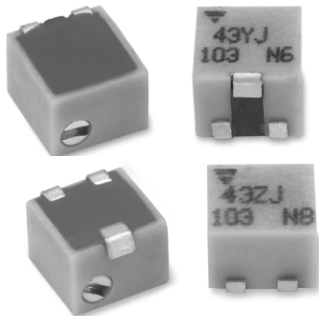


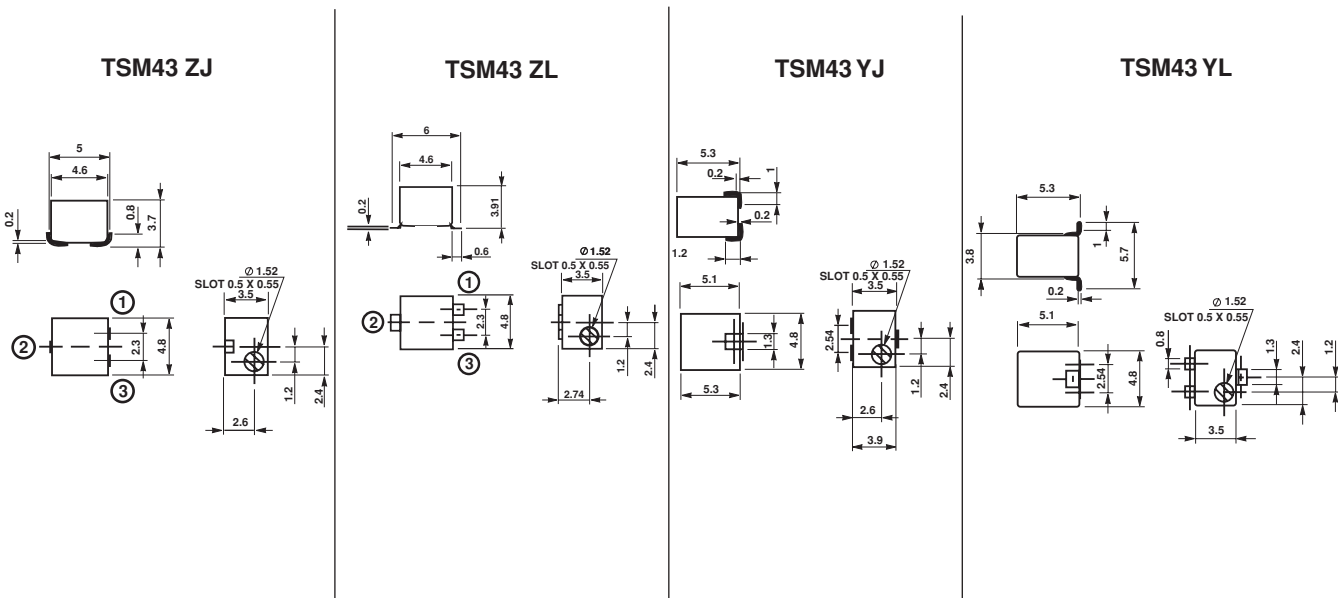
Surface Mount Cermet Trimmers Multiturn Cermet Sealed, Industrial Grade



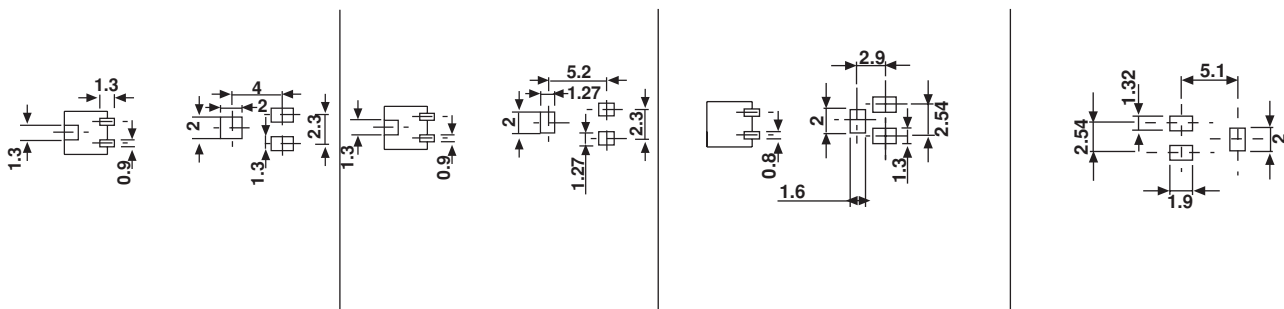
FEATURES

- Sealed to withstand board wash processing
- Pick and place centering design, with flush adjustment
- 4.0mm design meets EIA SMD standard trimmer foot print
- Low CRV, 1%
- Top and side adjust styles
- J-hook and gull-wing configurations

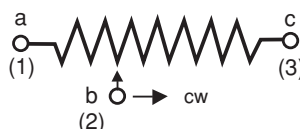
DIMENSIONS in millimeters



RECOMMENDED SOLDERING AREAS



CIRCUIT DIAGRAM





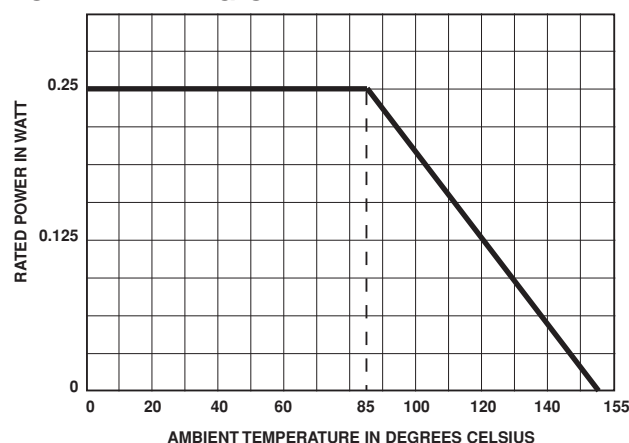
ELECTRICAL SPECIFICATIONS	
Resistive Element	Cermet
Resistance Range	10 Ω to 2M Ω
Electrical Travel	11 turns nominal
Tolerance Standard	$\pm 10\%$
Power Rating	0.25W at + 85°C 0W at + 150°C
Limiting Element Voltage (Linear Law)	300V
Resolution	infinite
Temperature Coefficient	$\pm 100\text{ppm}/^\circ\text{C}$
Contact Resistance Variation (CRV)	1% or 3 Ω max
Minimum Resistance (absolute)	1% or 2 Ω max (whichever is greater)
Sea Level Dielectric Strength (RMS)	600Vac (1 minute)
Insulation Resistance (500 VDC)	100M Ω mini.

MECHANICAL SPECIFICATIONS

End Stop Torque	clutch action
Operating Torque	180 g.cm max
Unit Weight (approx.)	0.28 g.
Solderability	Per MIL-STD-202 Method 208
Wiper	positioned at 50% nominal
Flammability	UL-94V-0

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 65°C + 150°C
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POWER RATING CHART

PERFORMANCE		
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS
Load Life	1000 hours at rated power 90'/30' - ambient temperature + 85°C	Total resistance shift = $\pm 3\Omega$ or $\pm 3\%$ whichever is greater
Humidity Moisture Resistance	MIL STD 202 Method 106 10 cycles of 24 hours constituted with damp heat - cold - vibrations	Total resistance shift = $\pm 2\%$ insulation resistance: 10M Ω
Thermal Shock	5 cycles	Total resistance shift = $\pm 2\%$ Voltage resistance shift = $\pm 1\%$
Rotational Cycling	100 cycles - rated power	$\pm 3\%$
Shock	MIL STD 202 Method 213/1 100 g - 6 ms 3 successive shocks in 3 directions	Total resistance shift = $\pm 1\%$ Voltage resistance shift = $\pm 1\%$
Vibration	MIL STD 202 Method 204/D 20 g - 12 hours	Total resistance shift = $\pm 1\%$ Voltage resistance shift = $\pm 1\%$

MARKING

VISHAY SFERNICE trademark, ohmic value, manufacturing date.

The ohmic value is indicated by a 3 digit code, the first two are significant figures, the third one is the multiplier.

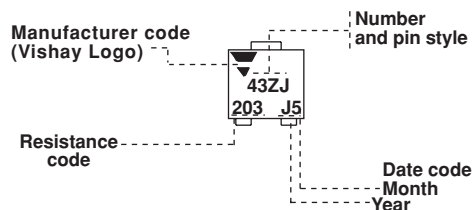
Example: 100 = 10Ω
101 = 100Ω
102 = 1kΩ
503 = 50kΩ

SOLDERING RECOMMENDATIONS

Vapor phase: 215°C/20 to 40 seconds.

Reflow: 230°C/20 seconds

Do not exceed peak 260°C



PACKAGING

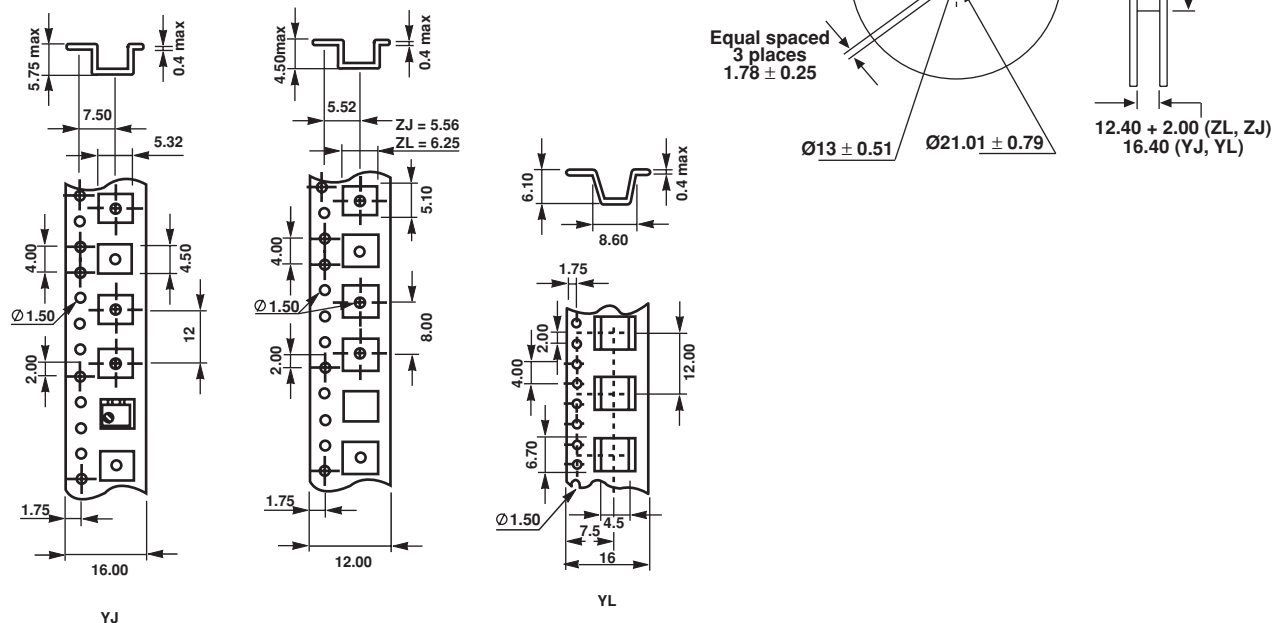
Standard packaging: Tape and reel

Packaging quantities:

Pin style YJ = 250 pieces, order code TR250

Pin style ZL, ZJ = 500 pieces, order code TR500

Pin style YL = 200 pieces code TR200



ORDERING INFORMATION

TSM43	YJ	50KΩ	TR250
SERIES	PIN STYLE	RESISTANCE CODE	PACKAGING
	YJ		YJ: code TR250
	YL		ZL: code TR500
	ZJ		YL: code TR200
	ZL		