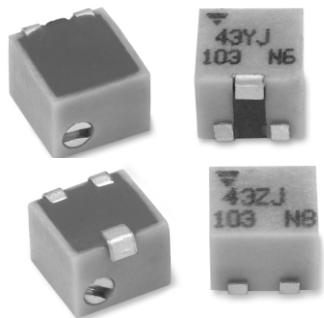


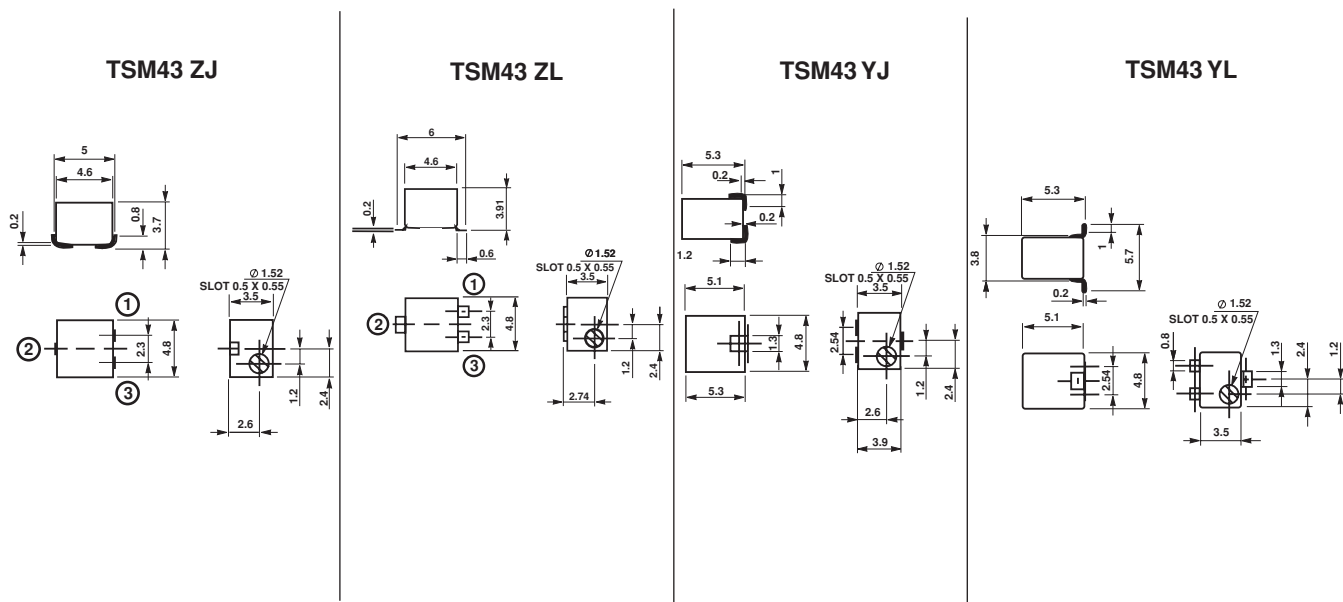
Surface Mount Cermet Trimmers Multiturn Cermet Sealed, Industrial Grade



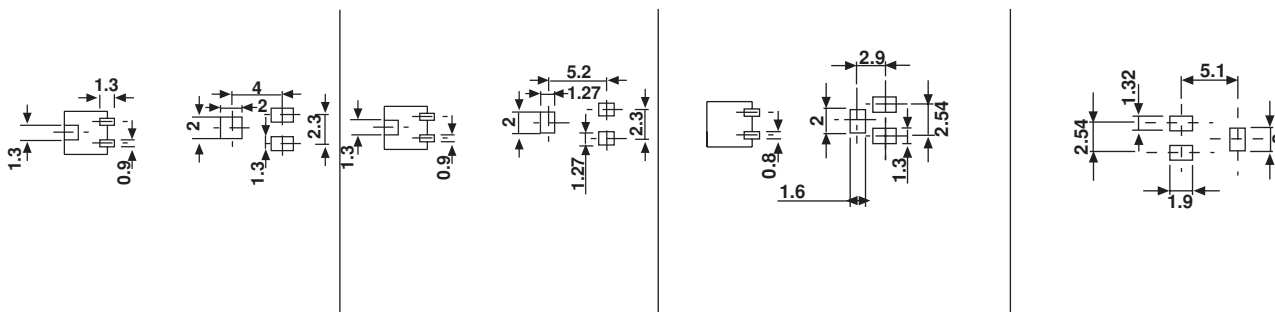
FEATURES

- 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

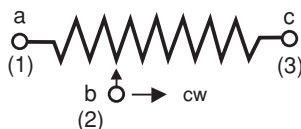
DIMENSIONS in millimeters



RECOMMENDED SOLDERING AREAS



CIRCUIT DIAGRAM





Surface Mount Cermet Trimmers
Multiturn Cermet Sealed, Industrial Grade

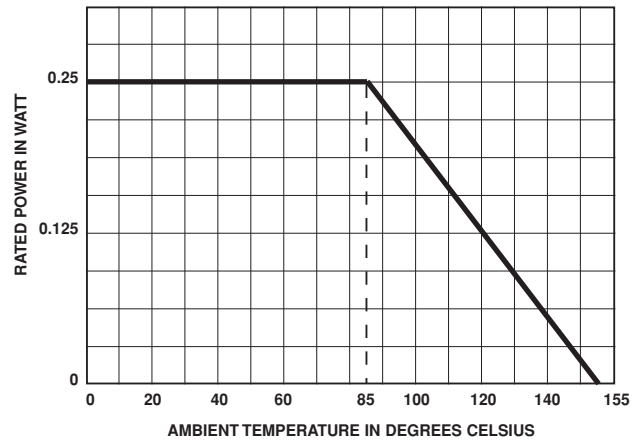
Vishay Sfernice

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

POWER RATING CHART



ENVIRONMENTAL SPECIFICATIONS

Temperature Range	- 65°C + 150°C
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PERFORMANCE		
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS
Load Life	1000 hours at rated power 90'/30' - ambient temperature + 85°C	Total resistance shift = ± 3Ω or ± 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 = ± 2% insulation resistance: 10MΩ
Thermal Shock	5 cycles	Total resistance shift = ± 2% Voltage resistance shift = ± 1%
Rotational Cycling	100 cycles - rated power	± 3%
Shock	MIL STD 202 Method 213/1 100 g - 6 ms 3 successive shocks in 3 directions	Total resistance shift = ± 1% Voltage resistance shift = ± 1%
Vibration	MIL STD 202 Method 204/D 20 g - 12 hours	Total resistance shift = ± 1% Voltage resistance shift = ± 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.

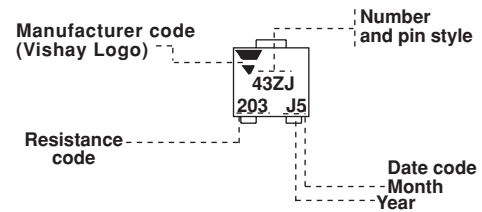
Example: 100 = 10Ω
101 = 100Ω
102 = 1kΩ
503 = 50kΩ

SOLDERING RECOMMENDATIONS

Vapor phase: 215°C/20 to 40 seconds.

Reflow: 230°C/20 seconds

Do not exceed peak 260°C



PACKAGING

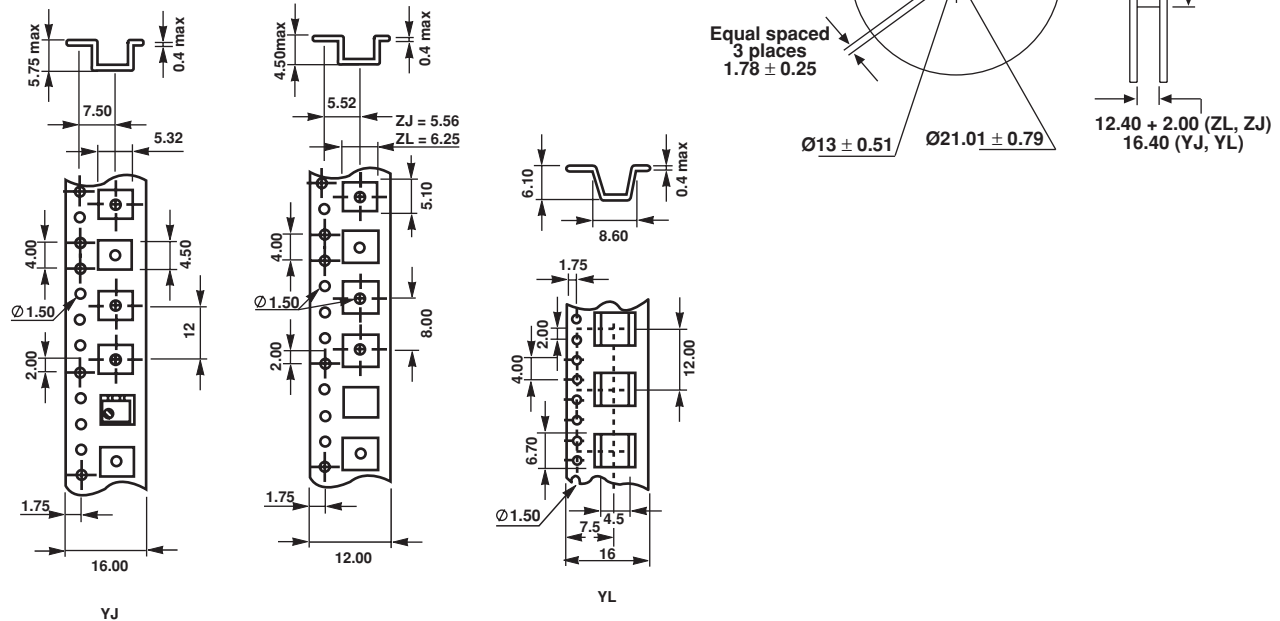
Standard packaging: Tape and reel

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		