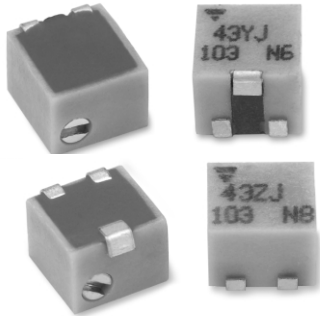


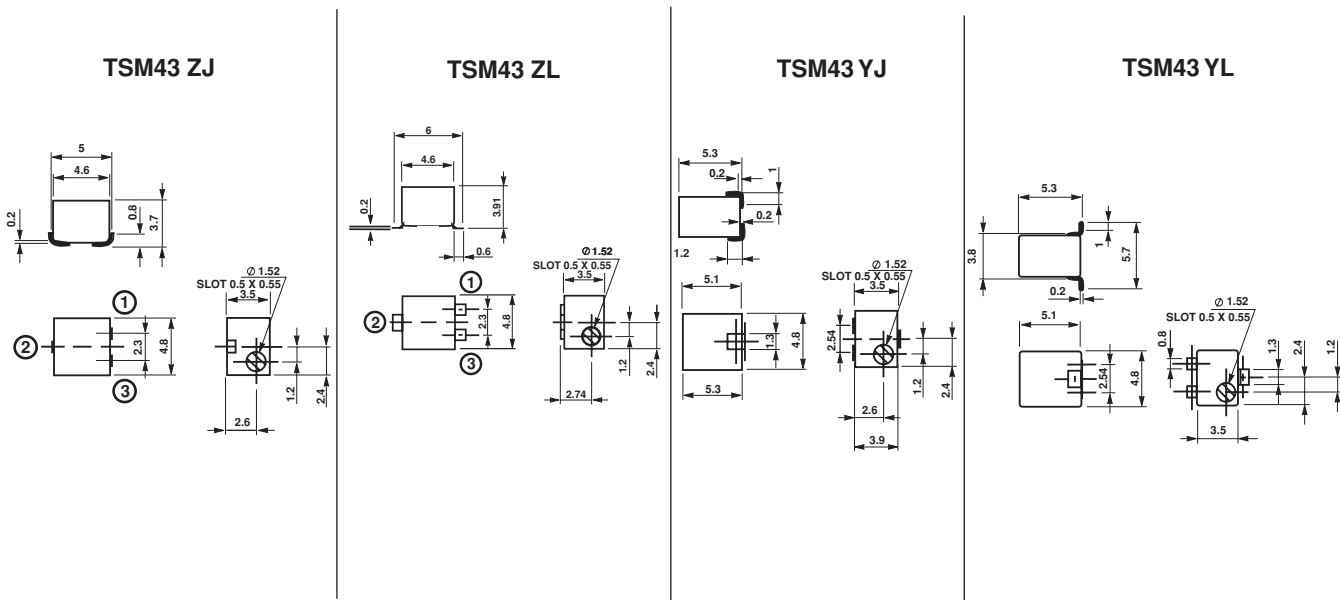
## Surface Mount Cermet Trimmers Multiturn Cermet Sealed, Industrial Grade



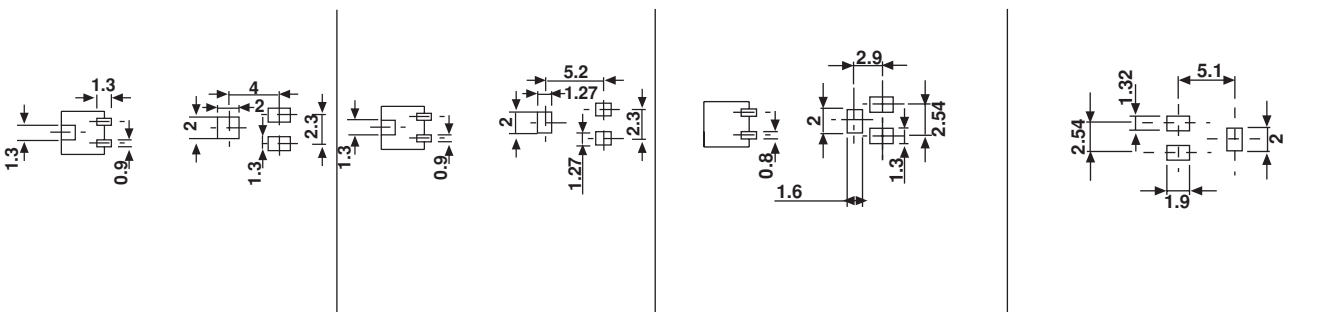
### FEATURES

- 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

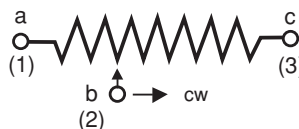
### DIMENSIONS in millimeters



### RECOMMENDED SOLDERING AREAS



### CIRCUIT DIAGRAM



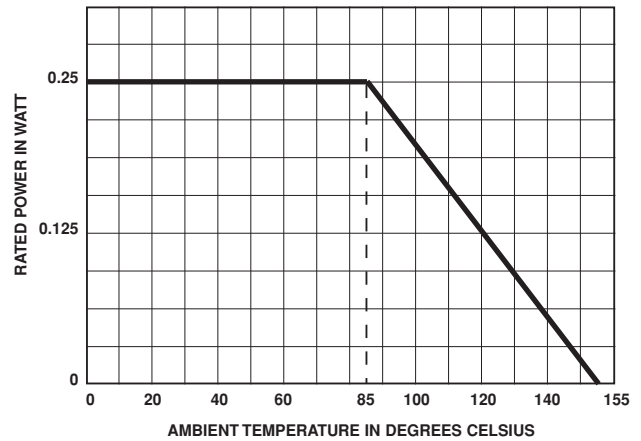


ELECTRICAL SPECIFICATIONS	
Resistive Element	Cermet
Resistance Range	10Ω to 2MΩ
Electrical Travel	11 turns nominal
Tolerance Standard	± 10%
Power Rating	0.25W at + 85°C 0W at + 150°C
Limiting Element Voltage (Linear Law)	300V
Resolution	infinite
Temperature Coefficient	± 100ppm/°C
Contact Resistance 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.

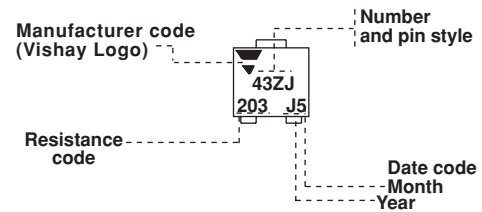
Example: 100 = 10Ω  
101 = 100Ω  
102 = 1kΩ  
503 = 50kΩ

## SOLDERING RECOMMENDATIONS

Vapor phase: 215°C/20 to 40 seconds.

Reflow: 230°C/20 seconds

Do not exceed peak 260°C



## PACKAGING

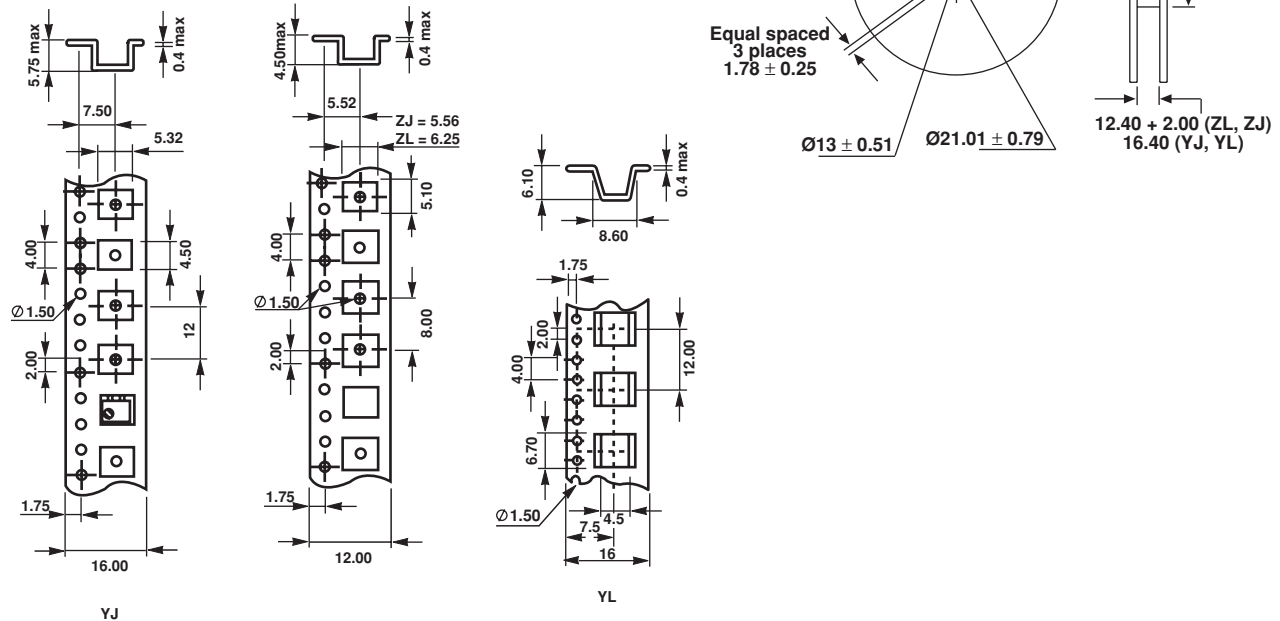
Standard packaging: Tape and reel

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		

This datasheet has been download from:

[www.datasheetcatalog.com](http://www.datasheetcatalog.com)

Datasheets for electronics components.