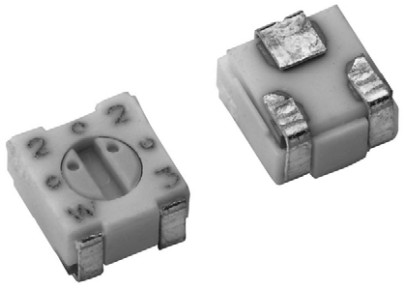
3 mm Square Surface Mount Miniature Trimmer Single-Turn Cermet Sealed



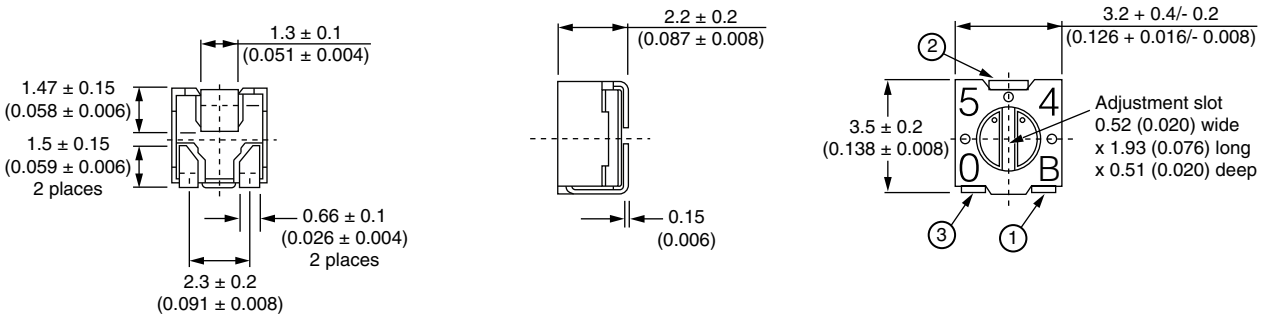
FEATURES

- 0.125 W at 70 °C
- Small size for optimum packaging density
- Suitable for both manual and automatic operations
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

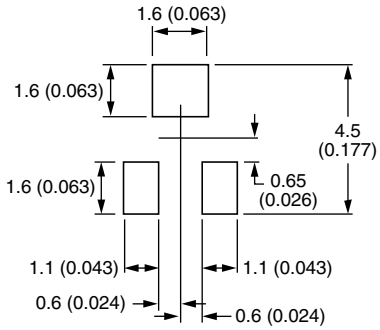
RoHS COMPLIANT

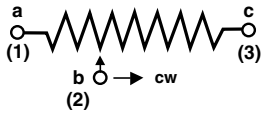
DIMENSIONS in millimeters (inches) ± 0.25 mm (± 0.010")

TS3YJ



RECOMMENDED SOLDERING AREAS



ELECTRICAL SPECIFICATIONS	
Resistive element	Cermet
Electrical travel	220°
Resistance range	10 Ω to 2 MΩ
Stocked range	1 kΩ to 100 kΩ
Standard series	1 - 2 - 5
Tolerance standard	± 20 %
Circuit diagram	
Power rating	0.125 W at 70 °C
Temperature coefficient (max.)	≥ 100 Ω ± 150 ppm/°C/> 100 Ω ± 100 ppm/°C
Limiting element voltage (max.)	200 V
Contact resistance variation	3 % or 3 Ω
End resistance	1 % or 3 Ω
Dielectric strength (RMS)	500 V (sea level)
Insulation resistance (500 V_{DC})	100 MΩ

MECHANICAL SPECIFICATIONS	
Mechanical travel	250°
Operating torque (max. Ncm)	0.5
End stop torque (min. Ncm)	2
Unit weight (max. g)	0.1
Mechanical life (cycles)	50

Note

- Nothing stated herein shall be construed as a guarantee of quality or durability.

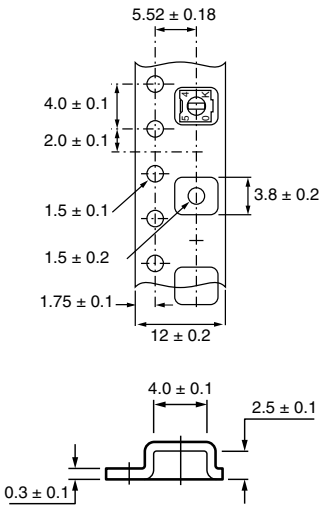
ENVIRONMENTAL SPECIFICATIONS	
Temperature range	-55 °C to +125 °C
Sealing	Sealed container IP67
MSL level	1

SOLDERING RECOMMENDATIONS
Recommended reflow profile 2, see Application Note www.vishay.com/doc?52029

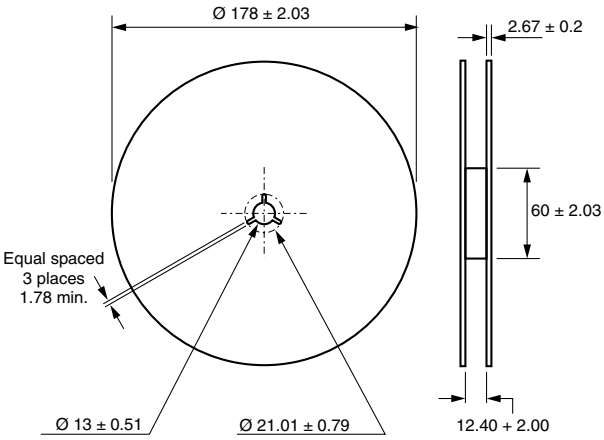
STANDARD RESISTANCE ELEMENT DATA

RESISTANCE	PART MARKING CODE	RESISTANCE CODE
10	A1	100
20	21	200
50	51	500
100	A2	101
200	22	201
500	52	501
1K	A3	102
2K	23	202
5K	53	502
10K	A4	103
20K	24	203
50K	54	503
100K	A5	104
200K	25	204
500K	55	504
1M	A6	105
2M	26	205

PACKAGING



Reel of 1000 pieces



ORDERING INFORMATION (part number)

T	S	3	Y	J	5	0	3	M	R	1	5				

MODEL	STYLE	OHMIC VALUE	TOLERANCE	PACKAGING	SPECIAL NUMBER
TS3	**YJ**	From 10 Ω to 2 MΩ **503** = 50 kΩ	**M** = ± 20 %	**R15** = reel 1000 pieces	(If applicable) Given by Vishay for custom design

DESCRIPTION (for information only)

TS3	YJ	**50K**	**20 %**		TR	**e3**
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH

RELATED DOCUMENTS

APPLICATION NOTES	
Potentiometers and Trimmers	www.vishay.com/doc?51001
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029

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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.