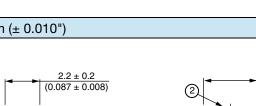
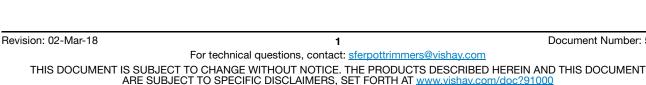
Document Number: 51041





**Vishay Sfernice** 

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

**FEATURES** 

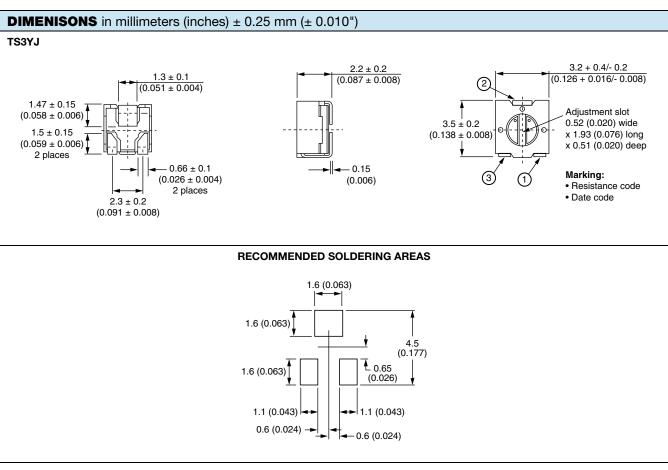
0.125 W at 70 °C



click logo to get started









· Suitable for both manual and automatic operations

please see www.vishay.com/doc?99912

Material categorization: for definitions of compliance





TS3

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### ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS				
Resistive element	Cermet			
Electrical travel	220°			
Resistance range	10 $\Omega$ to 2 M $\Omega$			
Stocked range	1 kΩ to 100 kΩ			
Standard series	1 - 2 - 5			
Tolerance standard	± 20 %			
Circuit diagram	$ \overset{a}{\underset{(1)}{\overset{b}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\overset{\circ}{\circ$			
Power rating	0.125 W at 70 °C			
Temperature coefficient (max.)	$\leq$ 100 $\Omega$ ± 150 ppm/°C/> 100 $\Omega$ ± 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 <sub>DC</sub> )	100 MΩ			

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

#### SOLEDERING RECOMMENDATIONS

Recommended reflow profile 2, see Application Note <u>www.vishay.com/doc?52029</u>

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

Revision: 02-Mar-18

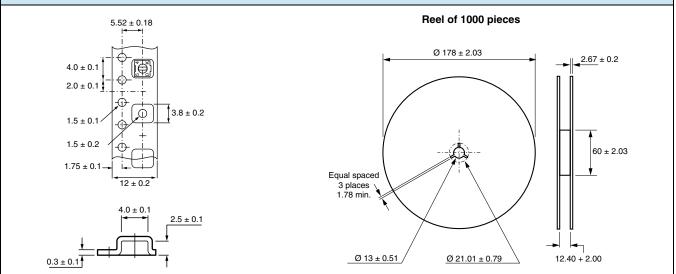
Document Number: 51041

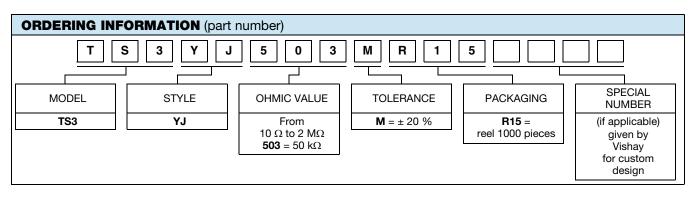


TS3

Vishay Sfernice

#### PACKAGING





DESCRIPTIO	N (for informatic	on 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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