

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



#### **FEATURES**



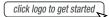


· Small size for optimum packaging density

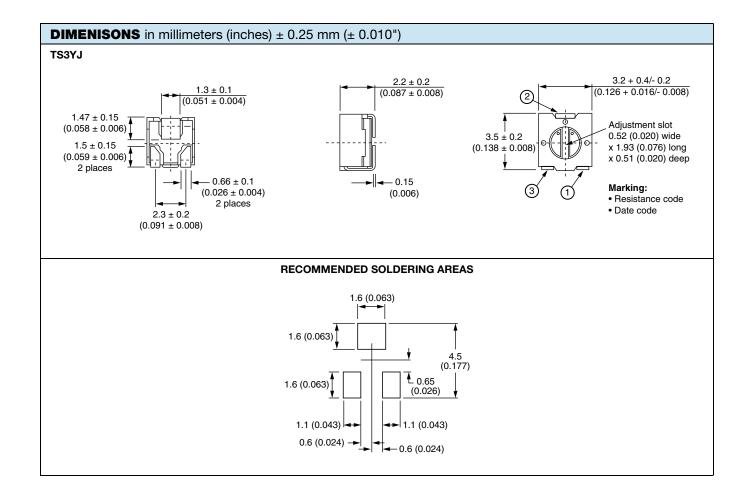
RoHS

- · Suitable for both manual and automatic operations
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

#### **DESIGN SUPPORT TOOLS**









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	$ \begin{array}{c} a \\ \downarrow \\ (1) \end{array} $ $ \begin{array}{c} b \\ \downarrow \\ (2) \end{array} $ $ \begin{array}{c} c \\ \downarrow \\ cw $ $ \begin{array}{c} c \\ (3) \end{array} $		
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 ΜΩ		

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

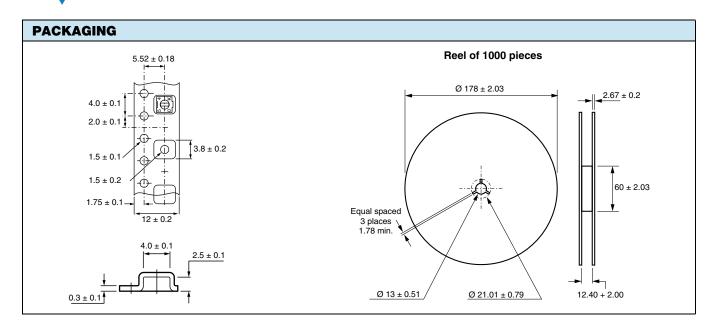
ENVIRONMENTAL SPECIFIACTIONS		
Temperature range	-55 °C to +125 °C	
Sealing	Sealed container IP67	
MSL level	1	

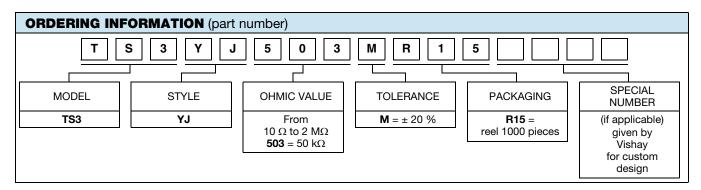
#### **SOLEDERING RECOMMENDATIONS**

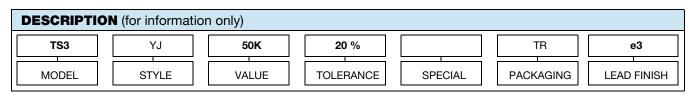
Recommended reflow profile 2, see Application Note www.vishay.com/doc?52029

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	

# Vishay Sfernice







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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Vishay

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