

## Cermet Trimmers, Surface Mount, 4.0 mm Square, Single Turn, **Industrial Grade**



#### **FEATURES**

Compatible

• 0.25 W at 70 °C



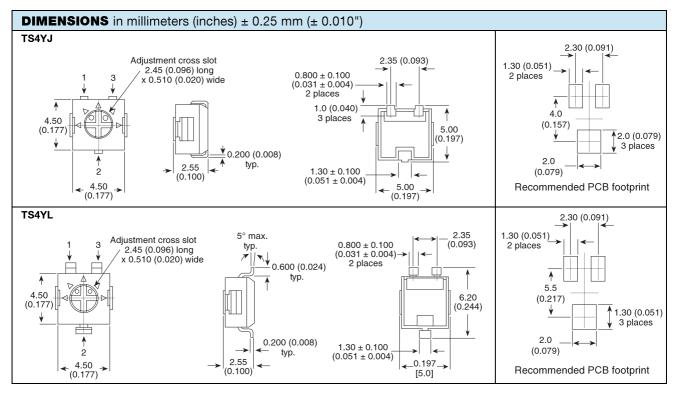


with popular pick-and-place equipment

vacuum

· J-hook and gull-wing configurations

• Compliant to RoHS Directive 2002/95/EC



ELECTRICAL SPECIFICATIONS			
Resistive Range	10 $\Omega$ to 2 M $\Omega$ (see Standard Resistance table)		
Tolerance	± 20 % standard		
End Resistance	1 % or 2 $\Omega$ maximum, whichever is greater		
Temperature Coefficient	± 100 ppm/°C		
Power Rating	(300 V maximum) 0.25 W at + 70 °C, 0 W at + 125 °C		
Circuit Diagram	Wiper   ○ 2   2   3		
Contact Resistance Variation (CRV)	1 % or 3 Ω		
Resolution	Infinite		
Insulation Resistance (500 V <sub>DC</sub> )	100 MΩ minimum		
Dielectric Strength (RMS)	Sea level 500 V <sub>AC</sub> (1 minute)		
Adjustment Angle	210° nominal		

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MECHANICAL SPECIFICATIONS			
Mechanical Angle	240° nominal		
Operating Torque (Typical)	1.8 Ncm		
End Stop Torque (Typical)	3.0 Ncm		
Weight	Approximately 0.01 oz.		
Wiper	Positioned at approx. 50 %		

ENVIRONMENTAL SPECIFICATIONS		
Temperature Range	- 55 °C to + 125 °C	
MSL Level	1	

PERFORMANCES					
TEOTO	CONDITIONS	TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	$\Delta R_{T}/R_{T}$ (%)	△V <sub>1-2</sub> /V <sub>1-3</sub> (%)	OTHER	
Vibration	20 <i>g</i> 's	± 1 %	± 1 %	-	
Shock	100 <i>g</i> 's	± 1 %	± 1 %	-	
Electrical Endurance	At 70 °C rated power 1000 h	± 3 %	-	-	
Mechanical Endurance	100 cycles	± 3 %	-	-	
Change of Temperature	5 cycles	± 2 %	± 1 %	-	
Humidity	90 % to 98 % relative humidity 10 cycles, 240 h	± 2 %	-	Insulation resistance:10 M $\Omega$	

### **SOLDERING RECOMMENDATIONS**

Recommended reflow profile 2, see Application Note <a href="https://www.vishay.com/doc?52029">www.vishay.com/doc?52029</a>

TWO E	TWO DIGIT DATE CODE						
	YEAR						
1990	Α	2000	М	2010		Α	
1991	В	2001	N	2011		В	
1992	С	2002	Р	2012		С	
1993	D	2003	R	2013		D	
1994	Е	2004	S	2014		Е	
1995	F	2005	Т	2015		F	
1996	Н	2006	U	2016		Н	
1997	J	2007	V	2017		J	
1998	K	2008	W	2018		K	
1999	L	2009	Х	2019		L	
	MONTH						
Januar	У	1		July		7	
Februa	ry	2	August		8		
March	1	3	September		9		
April		4	October		0		
May		5	November		N		
June	June 6		December		D		

STANDARD RESISTANCE ELEMENT DATA		
RESISTANCE $\Omega$	RESISTANCE CODE	
10	100	
20	200	
50	500	
100	101	
200	201	
500	501	
1K	102	
2K	202	
5K	502	
10K	103	
20K	203	
50K	503	
100K	104	
200K	204	
500K	504	
1M	105	
2M	205	

#### Note

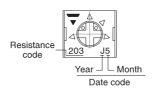
Special resistance available



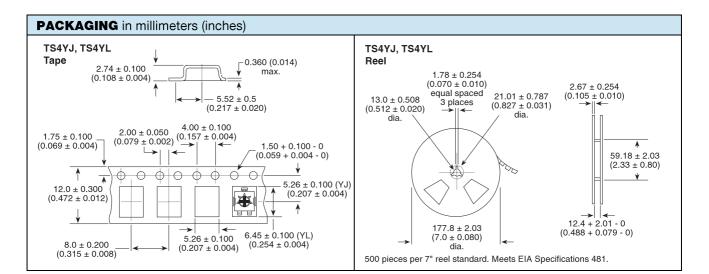
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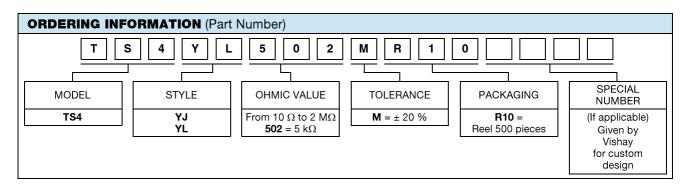
## Vishay Sfernice

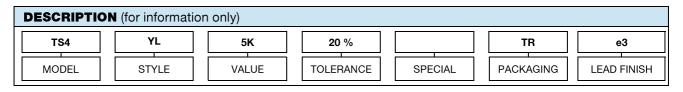
### **PART MARKING**



- Manufacturers code
- Resistance code
- Date code











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