

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



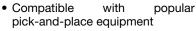
#### **FEATURES**

- 0.25 W at 70 °C
- Fully sealed to withstand board washing

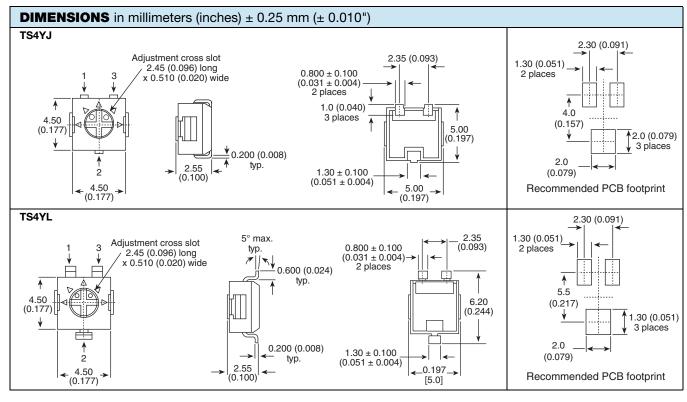


COMPLIANT

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 Ω 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  1		
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		

# Vishay Sfernice

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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					
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS			
TESTS	CONDITIONS	ΔR <sub>T</sub> /R <sub>T</sub> (%)	ΔV <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	20	10	Α
1991	В	2001	N	20	11	В
1992	С	2002	Р	20	12	С
1993	D	2003	R	20	13	D
1994	Е	2004	S	20	14	Е
1995	F	2005	Т	20	15	F
1996	Н	2006	U	20	16	Н
1997	J	2007	V	20	17	J
1998	K	2008	W	20	18	K
1999	L	2009	Х	2019		L
	MONTH					
Januar	January 1		July		7	
Februa	ry	2	August		8	
March	1	3	September		9	
April		4	October		0	
May		5	November		N	
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

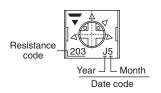
• Special resistance available



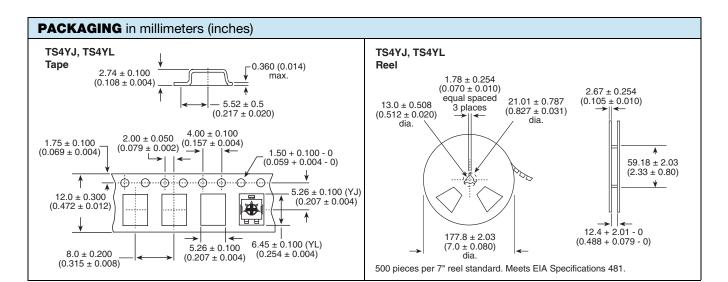
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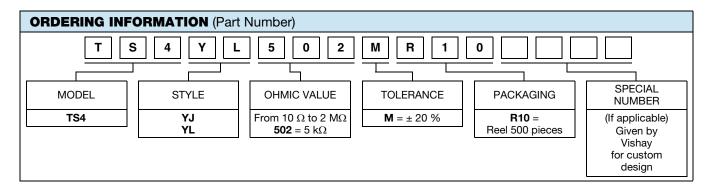
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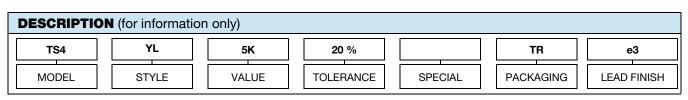
#### **PART MARKING**



- Manufacturers code
- Resistance code
- Date code









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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.

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