

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



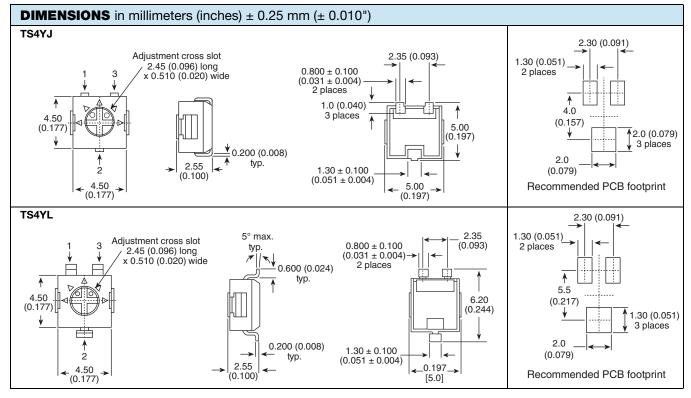
FEATURES

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



vacuum compliant

- Compatible with popular pick-and-place equipment
- · J-hook and gull-wing configurations
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



ELECTRICAL SPECIFICATIONS			
Resistance range	10 Ω to 2 M Ω (see Standard Resistance table)		
Tolerance	± 20 % standard		
End resistance	1 % or 2 Ω maximum, whichever is greater		
Temperature coefficient	± 100 ppm/°C		
Power rating	0.25 W at +70 °C (300 V maximum), 0 W at +125 °C		
Circuit diagram	Wiper		
Contact resistance variation (CRV)	1 % or 3 Ω		
Resolution	Infinite		
Insulation resistance (500 V _{DC})	100 MΩ minimum		
Dielectric strength (RMS)	Sea level 500 V _{AC} (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					
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS			
12313	CONDITIONS	ΔR _T /R _T (%)	ΔV ₁₋₂ /V ₁₋₃ (%)	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	Change of temperature 5 cycles		± 1 %	-	
Humidity 90 % to 98 % relative humidity 10 cycles, 240 h		± 2 %	-	Insulation resistance:10 M Ω	

Note

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

SOLDERING RECOMMENDATIONS

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

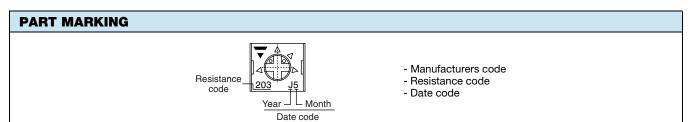
TWO E	TWO DIGIT DATE CODE					
	YEAR					
1990	Α	2000	М	20	10	Α
1991	В	2001	N	20	11	В
1992	С	2002	Р	20	12	С
1993	D	2003	R	20	13	D
1994	E	2004	S	20	2014	
1995	F	2005	Т	20	15	F
1996	Н	2006	U	20	16	Н
1997	J	2007	V	20	17	J
1998	K	2008	W	20	18	K
1999	L	2009	Х	2019		L
	MONTH					
Januar	January 1		July		7	
Februa	ry	2	August		8	
March	1	3	September		9	
April		4	October		0	
May		5	November		N	
June	June 6		December			D

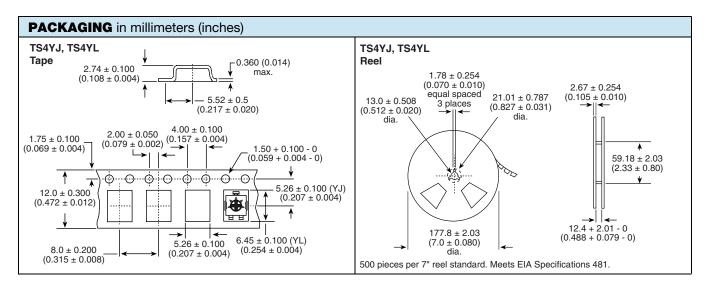
STANDARD RESISTANCE ELEMENT DATA				
RESISTANCE Ω	RESISTANCE CODE	TYPICAL TCR (ppm/°C)		
10	100			
20	200			
50	500			
100	101			
200	201			
500	501			
1K	102			
2K	202			
5K	502	± 100		
10K	103			
20K	203			
50K	503			
100K	104			
200K	204			
500K	504			
1M	105			
2M	205			

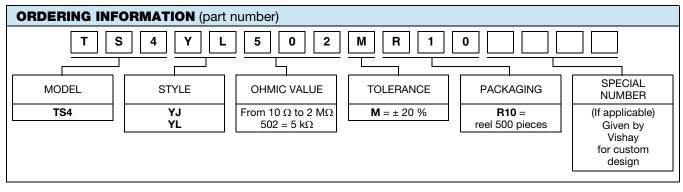
Note

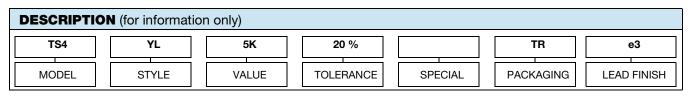
Special resistance available

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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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