

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



LINKS TO ADDITIONAL RESOURCES



FEATURES

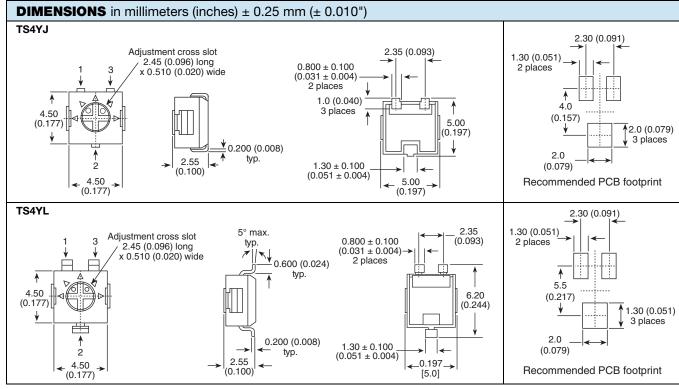
0.25 W at 70 °C





Compatible with popular vacuum 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		



Vishay Sfernice

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	∆R _T /R _T (%)	$\Delta V_{1-2}/V_{1-3}$ (%)	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	5 cycles	± 2 %	± 1 %	-	
Humidity	90 % to 98 % relative humidity 10 cycles, 240 h	± 2 %	-	Insulation resistance:10 $M\Omega$	

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 DIGIT DATE CODE							
	YEAR						
1990	P	١.	2000	М	20	10	Α
1991	E	3	2001	N	20	11	В
1992	C)	2002	Р	20	12	С
1993)	2003	R	20	13	D
1994	E	•	2004	S	20	14	Е
1995	F	•	2005	Т	20	15	F
1996	_	ł	2006	U	20	16	Н
1997	J	l	2007	V	20	17	J
1998	k	(2008	W	2018		K
1999	L	-	2009	Χ	2019		L
MONTH							
Januar	у	1		July		7	
Februa	ry	2		August		8	
March	ì	3		September		9	
April	•	4		October		0	
May		5		November		N	
June			6	December		D	

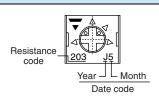
STANDARD RESISTANCE ELEMENT DATA				
RESISTANCE Ω	RESISTANCE CODE	TYPICAL TCR (ppm/°C)		
10	100			
20	200			
50	500			
100	101			
200	201			
500	501			
1K	102			
2K	202			
5K	502	± 100		
10K	103			
20K	203			
50K	503			
100K	104			
200K	204			
500K	504			
1M	105			
2M	205			

Note

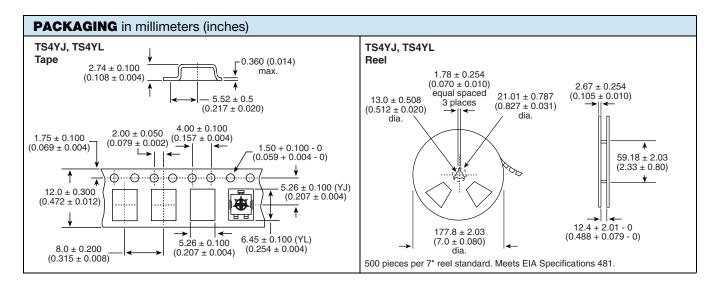
• Special resistance available

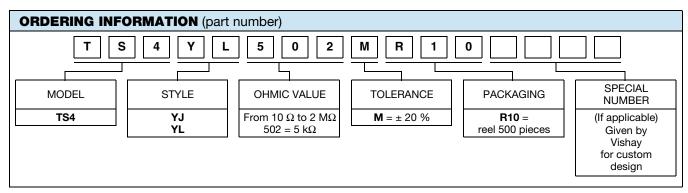


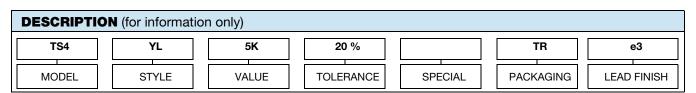
PART MARKING



- Manufacturers code
- Resistance code
- Date code







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

ACCESSORIES	
Screwdrivers (to order separately)	www.vishay.com/doc?57015



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