

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



FEATURES

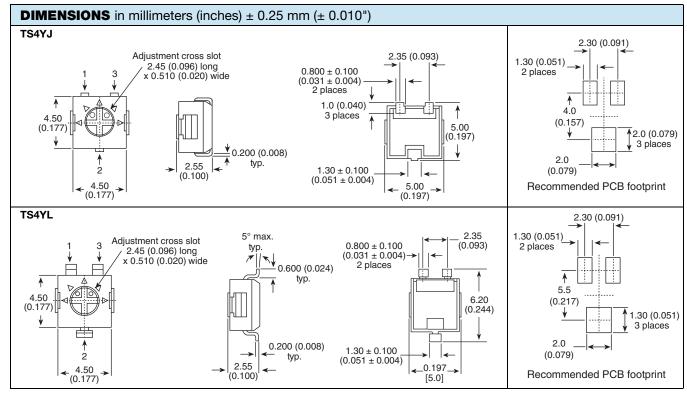
0.25 W at 70 °C





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			



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	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	5 cycles	± 2 %	± 1 %	-		
Humidity	90 % to 98 % relative humidity 10 cycles, 240 h	umidity ± 2 % - Insulation		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

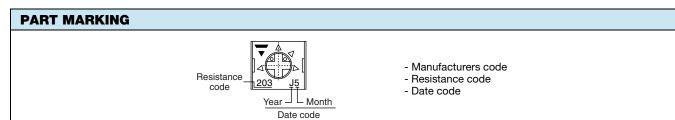
TWO DIGIT DATE CODE							
YEAR							
1990	Α		2000	М	20	10	Α
1991	В		2001	N	2011		В
1992	С		2002	Р	2012		С
1993	D		2003	R	20	13	D
1994	Е		2004	S	20	2014	
1995	F		2005	Т	20	15	F
1996	Н		2006	U	20	16	Н
1997	J		2007	V	20	17	J
1998	K		2008	W	20	18	K
1999	L		2009	Х	2019		L
MONTH							
Januar	У	1		July		7	
Februa	ry	2		August		8	
March	1	3		September		9	
April		4		October		0	
May		5		November		N	
June		6		December			D

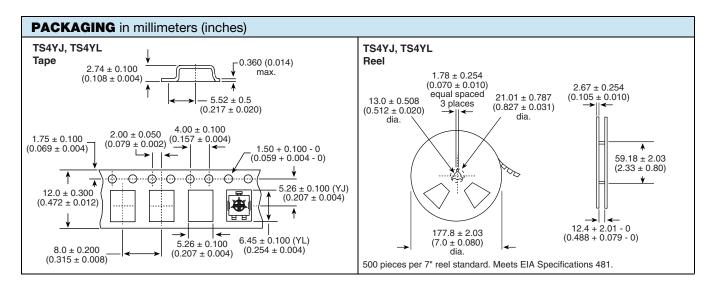
STANDARD RESISTANCE ELEMENT DATA					
RESISTANCE Ω	RESISTANCE CODE	TYPICAL TCR (ppm/°C)			
10	100				
20	200				
50	500				
100	101				
200	201				
500	501				
1K	102				
2K	202				
5K	502	± 100			
10K	103				
20K	203				
50K	503				
100K	104				
200K	204				
500K	504				
1M	105				
2M	205				

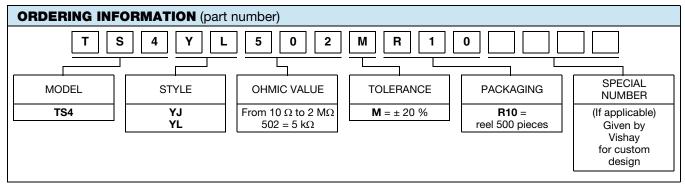
Note

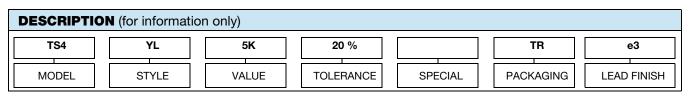
Special resistance available

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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Revision: 02-Oct-12 Document Number: 91000

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TS3YJ202MR15 TS3YJ203MR15 TS3YJ501MR15 TS3YJ502MR15 TS3YJ503MR15 TS4YL203MR10 TS3YJ103MR15 TS4YL102MR10
TS4YJ503MR10 TS4YJ502MR10 P160KNPD-0QC30B10K 23SR50KLFTR 43WR100KLFTR 3130W203P 072084A PVG5A102C03R00
PVG5A203C03R00 3214G-1-100E 3214G-1-102E 3214G-1-204E 3214G-1-501E 3214G-1-503E 35WR5KLFTR EVM-1SSX50B15 EVM-2XSX50B25 EVM-31GA00B12 EVM-7JSX30BQ5 EVM-7JSX30BY3 EVM-7JSX30BY5 EVW-ADF001B14 1-1879029-3 3214G-1-103E
3214G-1-502E 35WR10KLFTR