

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



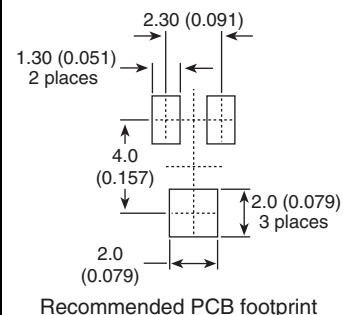
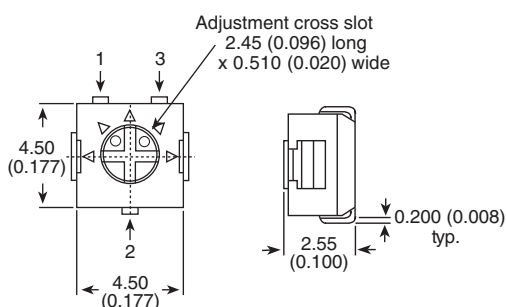
FEATURES

- 0.25 W at 70 °C
- Fully sealed to withstand board washing
- Compatible with popular vacuum pick-and-place equipment
- J-hook and gull-wing configurations
- Compliant to RoHS Directive 2002/95/EC

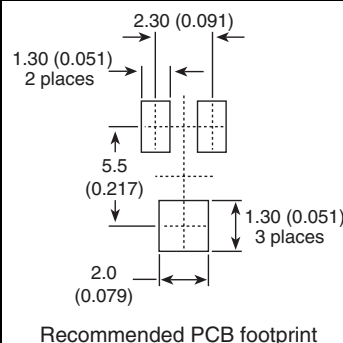
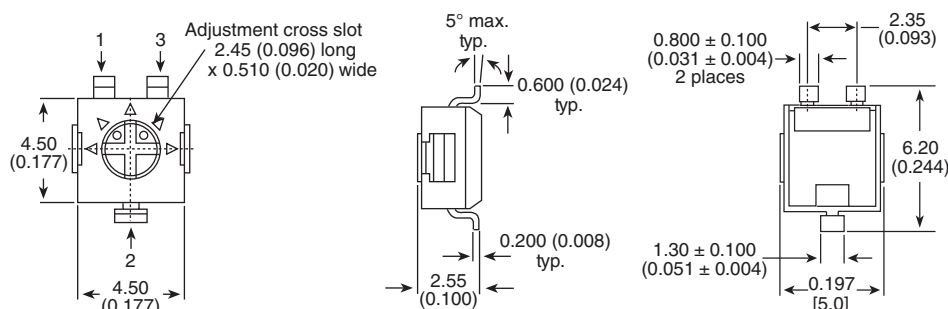

RoHS
COMPLIANT

DIMENSIONS in millimeters (inches) ± 0.25 mm (± 0.010 ")

TS4YJ



TS4YL



ELECTRICAL SPECIFICATIONS

Resistive 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	(300 V maximum) 0.25 W at + 70 °C, 0 W at + 125 °C
Circuit Diagram	<p>Wiper 1 2 3 ccw cw Clockwise</p>
Contact Resistance Variation (CRV)	1 % or 3 Ω
Resolution	Infinite
Insulation Resistance (500 V _{DC})	100 M Ω minimum
Dielectric Strength (RMS)	Sea level 500 V _{AC} (1 minute)
Adjustment Angle	210° nominal

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		
		$\Delta R_T/R_T$ (%)	$\Delta V_{1-2}/V_{1-3}$ (%)	OTHER
Vibration	20 g's	± 1 %	± 1 %	-
Shock	100 g'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 MΩ

SOLDERING RECOMMENDATIONS

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

TWO DIGIT DATE CODE

YEAR					
1990	A	2000	M	2010	A
1991	B	2001	N	2011	B
1992	C	2002	P	2012	C
1993	D	2003	R	2013	D
1994	E	2004	S	2014	E
1995	F	2005	T	2015	F
1996	H	2006	U	2016	H
1997	J	2007	V	2017	J
1998	K	2008	W	2018	K
1999	L	2009	X	2019	L
MONTH					
January	1	July	7		
February	2	August	8		
March	3	September	9		
April	4	October	O		
May	5	November	N		
June	6	December	D		

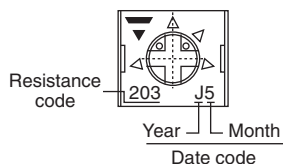
STANDARD RESISTANCE ELEMENT DATA

RESISTANCE Ω	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

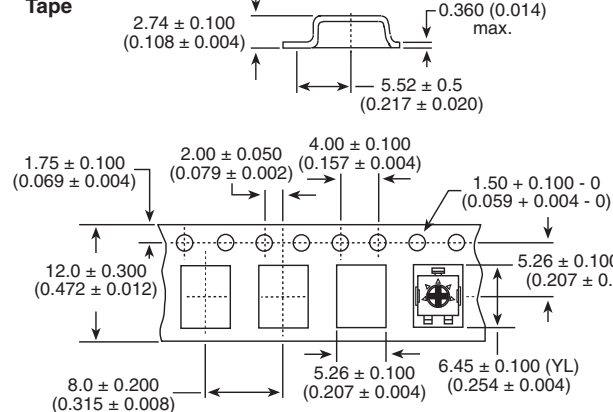
PART MARKING



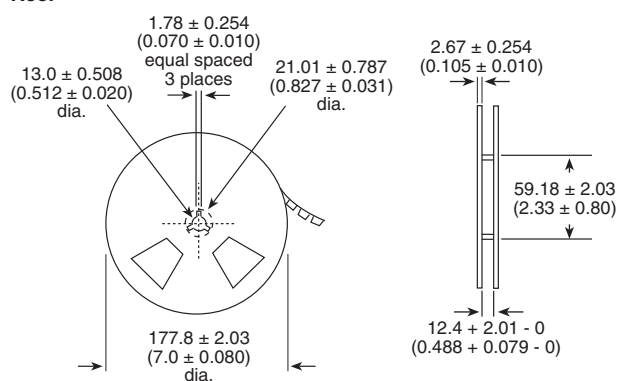
- Manufacturers code
- Resistance code
- Date code

PACKAGING in millimeters (inches)

TS4YJ, TS4YL Tape



TS4YJ, TS4YL Reel



500 pieces per 7" reel standard. Meets EIA Specifications 481.

ORDERING INFORMATION (Part Number)

T	S	4	Y	L	5	0	2	M	R	1	0				
MODEL		STYLE		OHMIC VALUE			TOLERANCE		PACKAGING		SPECIAL NUMBER				
TS4		YJ YL		From 10 Ω to 2 MΩ 502 = 5 kΩ			M = ± 20 %		R10 = Reel 500 pieces		(If applicable) Given by Vishay for custom design				

DESCRIPTION (for information only)

TS4	YL	5K	20 %		TR	e3
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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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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