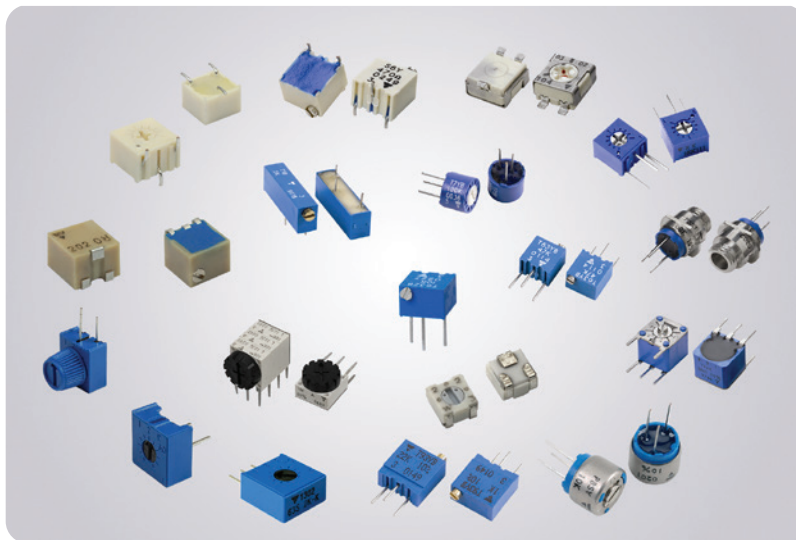




The DNA of tech.®

Single-Turn, Multi-Turn, and SMD Cermet Trimmers



SINGLE-TURN CERMET TRIMMERS (63, T7, T73, T12, P8P, T11, AND P8S)

- Various electrical travel
- Top and side adjust versions
- 10 Ω to 10 M Ω resistance range
- Various pin styles
- Tube and tape and reel options

MULTI-TURN CERMET TRIMMERS (43, T18, 64, T93, T63, T9, AND T6)

- Various electrical travel
- Top and side adjust versions
- 10 Ω to 2.2 M Ω resistance range
- Tube packaging

SMD CERMET TRIMMERS (TS5, TS53, TS6, TS63, TSM4, TS3, TSM3, AND TS7)

- Military- and professional-grade
- Multi-turn and single-turn options
- Fully sealed trimmers
- Tape and reel and tube packaging

RESOURCES

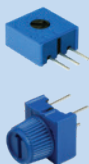
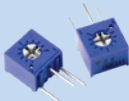
- For technical questions, contact sfer@vishay.com
- Sales contacts: <http://www.vishay.com/doc?99914>



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CERMET TRIMMERS

Vishay Sfernice

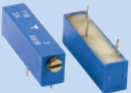
Single-Turn Cermet Trimmers							
Model	<u>63</u> 	<u>T7</u> 	<u>T73</u> 	<u>T12</u> 	<u>P8P</u> 	<u>T11</u> 	<u>P8S</u> 
Package Size	10 mm (3/8 in) square	7 mm (1/4 in) diameter	6.35 mm (1/4 in) square	12 mm (1/2 in) square	8.5 mm (1/3 in) diameter	12.55 mm	8.5 mm (1/3 in) diameter
Resistance Range (Ω)	10 to 2 M	10 to 2.2 M	10 to 2 M	22 to 10 M	10 to 2.2 M	22 to 4.7 M	10 to 2.2 M
Standard Resistance Tolerance	$\pm 10 \%$	$\pm 20 \%$	$\pm 10 \%$	$\pm 20 \%$	$\pm 10 \%$	$\pm 20 \%$	$\pm 10 \%$
TC (ppm/°C) $> 100 \Omega$	± 100	± 100	± 100	± 100	± 100	± 100	± 100
Power Rating	0.5 W at 70 °C	0.5 W at 85 °C	0.5 W at 70 °C	1 W at 70 °C	1 W at 70 °C, P8PT; 0.5 W at 70 °C, P8PX - P8PY	0.5 W at 70 °C	1 W at 70 °C, P8PST; 0.5 W at 70 °C, P8SX - P8SY
Electrical Travel	270°	270°	240°	270°	250°	270°	270°
Contact Resistance Variation (CrV)	1 % or 1 Ω	3 % or 3 Ω	1 % or 3 Ω	3 % or 3 Ω	2 % or 1 Ω	2 % Rn or 3 Ω (linear law)	3 % Rn or 3 Ω
Mechanical Life	200 cycles	200 cycles	200 cycles	200 cycles	200 cycles	2000 cycles	200 cycles
Operating Temperature	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C
Features and Packaging	Top adjust, side adjust, knob adjust, extended rotor, box RoHS COMPLIANT	Top adjust, box, tube RoHS COMPLIANT	Top adjust, side adjust, tube, tape and reel RoHS COMPLIANT	Locking device, log law, box RoHS COMPLIANT	Top adjust, side adjust, panel-sealed, panel-mount with solder lugs, box RoHS COMPLIANT	Industrial-grade, up to five modules. Switches and detents available. Available in conductive plastic RoHS COMPLIANT	Top adjust, side adjust, fully sealed, panel-sealed option, panel-mount box RoHS COMPLIANT



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CERMET TRIMMERS

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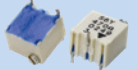
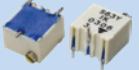
Multi-Turn Cermet Trimmers							
	<u>43</u>	<u>T18</u>	<u>64</u>	<u>T93</u>	<u>T63</u>	<u>T9</u>	<u>T6</u>
Model							
Package Size	19 mm (3/4 in)	19 mm (3/4 in)	10 mm (3/8 in)	10 mm (3/8 in)	6.35 mm (1/4 in)	10 mm (3/8 in)	6.35 mm (1/4 in)
Grade	Industrial	Industrial	Industrial	Industrial	Industrial	Military and professional	Military and professional
Resistance Range (Ω)	10 to 2.2 M	10 to 2.2 M	10 to 2.2 M	10 to 2.2 M	10 to 2.2 M	10 to 2.2 M	10 to 2.2 M
Standard Resistance Tolerance	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$
TC (ppm/ $^{\circ}\text{C}$) > 100 Ω	± 100	± 100	± 100	± 100	± 100	± 100	± 100
Power Rating	0.5 W at 70 $^{\circ}\text{C}$	0.5 W at 70 $^{\circ}\text{C}$	0.5 W at 70 $^{\circ}\text{C}$	0.5 W at 70 $^{\circ}\text{C}$	0.25 W at 85 $^{\circ}\text{C}$	0.5 W at 70 $^{\circ}\text{C}$	0.25 W at 85 $^{\circ}\text{C}$
Mechanical Travel	18 turns	18 turns	23 turns	23 turns	15 turns	23 turns	15 turns
Contact Resistance Variation (CrV)	2 % or 1 Ω	2 % or 1 Ω	2 % or 2 Ω	2 % or 2 Ω	2 % or 2 Ω	2 % or 2 Ω	2 % or 2 Ω
Mechanical Life	200 cycles	200 cycles	200 cycles	200 cycles	200 cycles	200 cycles	200 cycles
Operating Temperature	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +155 $^{\circ}\text{C}$	-55 $^{\circ}\text{C}$ to +155 $^{\circ}\text{C}$
Features and Packaging	Panel-mount, tube RoHS COMPLIANT	Panel-mount, tube RoHS COMPLIANT	Tube, custom screw on request RoHS COMPLIANT	Tube, custom screw on request RoHS COMPLIANT	Tube, custom screw on request RoHS COMPLIANT	Tube RoHS COMPLIANT 	Tube RoHS COMPLIANT 



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CERMET TRIMMERS

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SMD Cermet Trimmers								
Model	TS5	TS53	TS6	TS63	TSM4	TS3	TS7	TSM3
								
Package Size	5 mm (3/4 in)	5 mm (3/4 in)	6.85 mm (3/8 in)	6.85 mm (3/8 in)	5 mm (13/64 in)	3.2 mm (1/8 in)	6.71 mm	3.18 mm x 4 mm
Grade	Military and professional	Industrial	Military and professional	Industrial	Military and professional	Industrial		
Resistance Range (Ω)	10 to 1 M	10 to 1 M	10 to 2 M	10 to 2 M	10 to 1 M	10 to 2 M	10 to 2 M	10 to 2 M
Standard Resistance Tolerance	$\pm 10 \%$	$\pm 20 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 20 \%$	$\pm 10 \%$	$\pm 20 \%$
TC (ppm/°C) $> 100 \Omega$	± 100	± 100	± 100	± 100	± 100	± 150	± 100	± 100
Power Rating	0.25 W at 70 °C	0.25 W at 70 °C	0.25 W at 85 °C	0.25 W at 85 °C	0.25 W at 85 °C	0.125 W at 70 °C	0.5 W at 70 °C	0.125 W at 70 °C
Mechanical Travel	270°	270°	15 turns	15 turns	13 turns	250°	240°	11 turns
Contact Resistance Variation (CrV)	1 % or 3 Ω	1 % or 3 Ω	2 % or 2 Ω	2 % or 2 Ω	2 % or 3 Ω	3 % or 3 Ω	3 % or 3 Ω max	3 % or 3 Ω max
Mechanical Life	100 cycles	100 cycles	200 cycles	200 cycles	100 cycles	50 cycles	200 cycles	200 cycles
Operating Temperature	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-55 °C to +125 °C	-65 °C to +150 °C
Features and Packaging	J-hook and gullwing, tape and reel RoHS COMPLIANT	J-hook and gullwing, tape and reel RoHS COMPLIANT	Tube, tape and reel RoHS COMPLIANT 	Tube, tape and reel RoHS COMPLIANT	J-hook and gullwing, top adjust, side adjust, tape and reel RoHS COMPLIANT	Tape and reel RoHS COMPLIANT	Top adjust, side adjust, fully sealed, tape and reel	Top adjust, side adjust, fully sealed, tape and reel