



# Cermet Trimmers

Vishay Sfernice



## Single-Turn Cermet Trimmers

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

## Multi-Turn Cermet Trimmers

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

## SMD Cermet Trimmers

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

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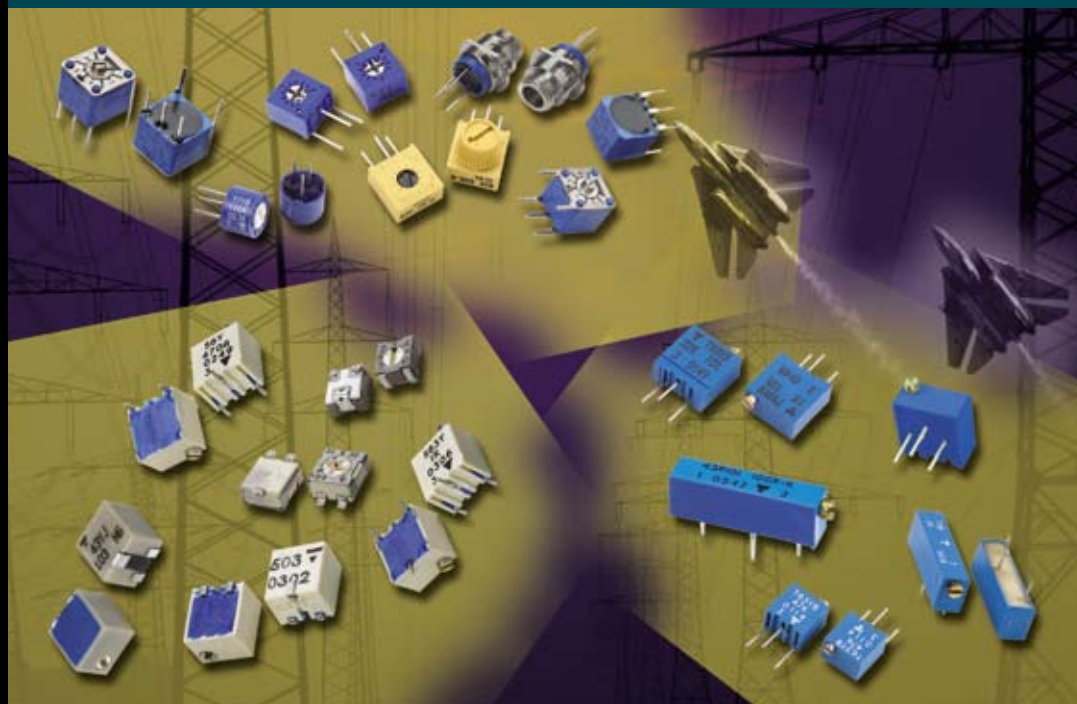
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VISHAY INTERTECHNOLOGY, INC.



## SINGLE-TURN, MULTI-TURN AND SMD CERMET TRIMMERS

Vishay Sfernice

63  
T7  
T73  
T12  
P8  
43  
T18  
64  
T93  
T63  
TS5  
TS53  
TS6  
TS63  
TSM4  
TSM43  
TS3



# Cermet Trimmers

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## Single-Turn Cermet Trimmers






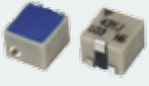

Model	63	T7	T73	T12	P8P
Package Size	10 mm (3/8") square	7 mm (1/4") diameter	6.35 mm (1/4") square	12 mm (1/2") square	8.5 mm (1/3") diameter
Resistance Range (ohms)	10 to 2 M $\Omega$	10 to 2.2 M $\Omega$	10 to 2 M $\Omega$	22 to 10 M $\Omega$	10 to 2.2 M $\Omega$
Standard Resistance Tolerance	$\pm 10\%$	$\pm 20\%$	$\pm 10\%$	$\pm 20\%$	$\pm 10\%$
TC (ppm/ $^{\circ}$ C) > 100 $\Omega$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$
Power Rating	0.5 W at 70 $^{\circ}$ C	0.5 W at 85 $^{\circ}$ C	0.5 W at 70 $^{\circ}$ C	1 W at 70 $^{\circ}$ C	0.5 W at 70 $^{\circ}$ C
Electrical Travel	270 $^{\circ}$	270 $^{\circ}$	240 $^{\circ}$	270 $^{\circ}$	250 $^{\circ}$
Contact Resistance Variation (CRV)	1 % or 1 $\Omega$	3 % or 3 $\Omega$	1 % or 3 $\Omega$	3 % or 3 $\Omega$	2 % or 1 $\Omega$
Mechanical Life	200 cycles	200 cycles	200 cycles	200 cycles	200 cycles
Operating Temperature	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C
Features and Packaging	Top adjust, side adjust, knob adjust, extended rotor, box	Top adjust, box, or tube	Top adjust, side adjust, tubes, tape and reel	Locking device, log law, box	Top adjust, side adjust, panel sealed, panel mount with solder lugs, box



## Multi-Turn Cermet Trimmers

Model	43	T18	64	T93	T63
Package Size	19 mm (3/4") square	19 mm (3/4") diameter	10 mm (3/8") square	10 mm (3/8") square	6.35 mm (1/4") diameter
Resistance Range (ohms)	10 to 2.2 M $\Omega$	10 to 2.2 M $\Omega$	10 to 2.2 M $\Omega$	10 to 2.2 M $\Omega$	10 to 2.2 M $\Omega$
Standard Resistance Tolerance	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$
TC (ppm/ $^{\circ}$ C) > 100 $\Omega$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$
Power Rating	0.5 W at 70 $^{\circ}$ C	0.5 W at 70 $^{\circ}$ C	0.5 W at 70 $^{\circ}$ C	0.5 W at 70 $^{\circ}$ C	0.25 W at 85 $^{\circ}$ C
Mechanical Travel	18 turns	18 turns	23 turns	23 turns	15 turns
Contact Resistance Variation (CRV)	2 % or 1 $\Omega$	2 % or 1 $\Omega$	2 % or 2 $\Omega$	2 % or 2 $\Omega$	2 % or 2 $\Omega$
Mechanical Life	200 cycles	200 cycles	200 cycles	200 cycles	200 cycles
Operating Temperature	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C
Features and Packaging	Panel mount, tube	Panel mount, tube	Tube, custom screw on request	Tube, custom screw on request	Tube, custom screw on request



SMD Cermet Trimmers							
Model	TS5 	TS53 	TS6 	TS63 	TSM4 	TSM43 	TS3 
Package Size	5 mm (3/4")	5 mm (3/4")	6.85 mm (3/8")	6.85 mm (3/8")	5 mm (13/64")	5 mm (13/64")	3.2 mm (1/8")
Grade	Military and Professional	Industrial	Military and Professional	Industrial	Military and Professional	Industrial	Industrial
Resistance Range (ohms)	10 to 1 M $\Omega$	10 to 1 M $\Omega$	10 to 2 M $\Omega$	10 to 2 M $\Omega$	10 to 1 M $\Omega$	10 to 2 M $\Omega$	10 to 2 M $\Omega$
Standard Resistance Tolerance	$\pm 10 \%$	$\pm 20 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 10 \%$	$\pm 20 \%$
TC (ppm/ $^{\circ}$ C) > 100 $\Omega$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 100$	$\pm 150$
Power Rating	0.25 W at 70 $^{\circ}$ C	0.25 W at 70 $^{\circ}$ C	0.25 W at 85 $^{\circ}$ C	0.25 W at 85 $^{\circ}$ C	0.25 W at 85 $^{\circ}$ C	0.25 W at 85 $^{\circ}$ C	0.125 W at 70 $^{\circ}$ C
Mechanical Travel	270 $^{\circ}$	270 $^{\circ}$	15 turns	15 turns	13 turns	13 turns	250 $^{\circ}$
Contact Resistance Variation (CRV)	1 % or 3 $\Omega$	1 % or 3 $\Omega$	2 % or 2 $\Omega$	2 % or 2 $\Omega$	2 % or 3 $\Omega$	1 % or 3 $\Omega$	3 % or 3 $\Omega$
Mechanical Life	100 cycles	100 cycles	200 cycles	200 cycles	100 cycles	100 cycles	50 cycles
Operating Temperature	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C	- 55 $^{\circ}$ C to + 125 $^{\circ}$ C
Features and Packaging	J-hook and gull wing, tape and reel	J-hook and gull wing, tape and reel	Tube, tape and reel	Tube, tape and reel	J-hook and gull wing, top adjust, side adjust, tape and reel	J-hook and gull wing, top adjust, side adjust, tape and reel	Tape and reel