

C&K TR03 Series Sealed* Trimming Potentiometers

*Process sealed-withstands soldering and cleaning processes.

Surface Mount, 3mm Square, Cermet, Single-turn, Top Adjust



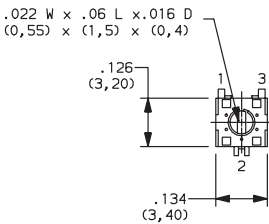
TR03G500T



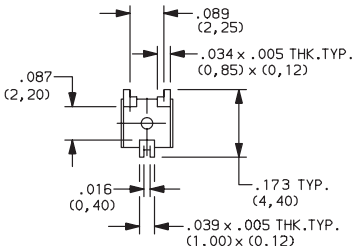
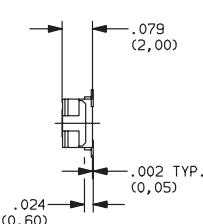
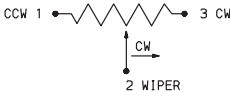
TR03J500T

- 3mm square, space saving size
- Process compatible
- Designed for reflow and IR solder methods
- Embossed tape and reel packaging is standard

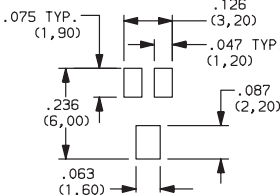
GULL-WING TERMINALS



SCHEMATIC

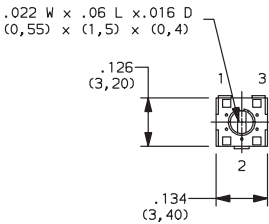


PC MOUNTING

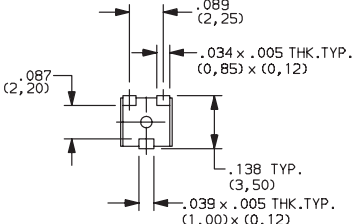
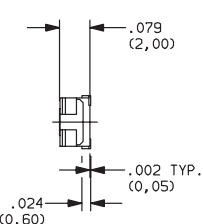
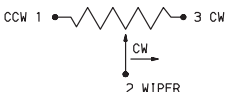


PART NO.	RESISTANCE (OHMS)
TR03G500T	50
TR03G101T	100
TR03G201T	200
TR03G501T	500
TR03G102T	1K
TR03G202T	2K
TR03G502T	5K
TR03G103T	10K
TR03G203T	20K
TR03G503T	50K
TR03G104T	100K
TR03G204T	200K
TR03G504T	500K
TR03G105T	1M
TR03G205T	2M

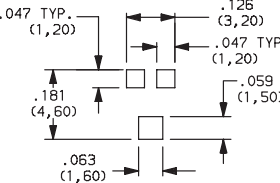
J-BEND TERMINALS



SCHEMATIC



PC MOUNTING

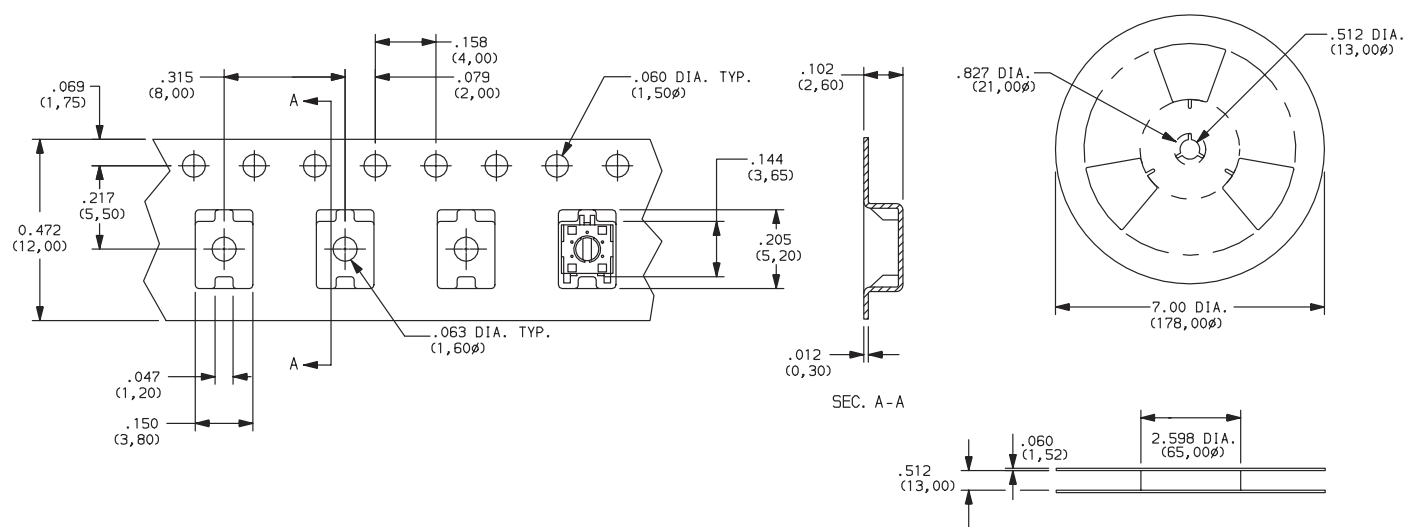


PART NO.	RESISTANCE (OHMS)
TR03J500T	50
TR03J101T	100
TR03J201T	200
TR03J501T	500
TR03J102T	1K
TR03J202T	2K
TR03J502T	5K
TR03J103T	10K
TR03J203T	20K
TR03J503T	50K
TR03J104T	100K
TR03J204T	200K
TR03J504T	500K
TR03J105T	1M
TR03J205T	2M

C&K TR03 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

EMBOSSED TAPE AND REEL PACKAGING



HOW TO ORDER

To order, specify complete part number for desired model. Other resistance values and special configurations available, consult factory.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 50 ohms to 2 megohms.

RESISTANCE TOLERANCE: $\pm 20\%$.

END RESISTANCE: 1% or 3 ohms, whichever is greater.

PEAK NOISE (CRV): 2% or 3 ohms, whichever is greater, MIL-R-22097, 4.6.4.

TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values), MIL-STD-202, method 304.

INSULATION RESISTANCE: 100 megohms min. @ 500 V DC, MIL-STD-202, method 302, condition B.

DIELECTRIC STRENGTH: 500 V AC min., MIL-STD-202, method 301.

POWER RATING: 0.125 watt at 70°C , 0 watt at 125°C .

MAXIMUM WORKING VOLTAGE: 200 V DC.

ELECTRICAL TRAVEL: $200^\circ \pm 10^\circ$.

MECHANICAL

MECHANICAL TRAVEL: $250^\circ \pm 10^\circ$.

OPERATING TORQUE: 50gf cm max.

STOP STRENGTH: 200gf cm min.

COVER PLATE: Stainless steel.

BASE: PPS (UL 94V-0).

ROTOR: PPS (UL 94V-0), with internal o-ring seal.

TERMINALS: Copper alloy, 60/40 tin-lead plated. All terminals insert molded.

TERMINAL SEAL: Epoxy.

RESISTIVE ELEMENT: Cermet, on ceramic substrate.

PACKAGING: Embossed tape and reel is standard (500 pcs. per reel); see above for specifications.

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.

THERMAL SHOCK: -55°C , $+125^\circ\text{C}$, 30 minutes each, 5 cycles MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.

MOISTURE RESISTANCE: Humidity cycle, MIL-STD-202, method 106D, TRS $\pm 3\%$ max.

HUMIDITY: 40°C , 90 to 95% RH, MIL-STD-202, method 103B, condition C, TRS $\pm 3\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.

SHOCK: 100G, MIL-STD-202, method 213B, condition I, TRS $\pm 1\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.

VIBRATION: 10 to 2,000 Hz, 1.5m/m or 20G, MIL-STD-202, method 204D, TRS $\pm 1\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.

SOLDERING HEAT: 10 sec. @ 240°C , max., TRS $\pm 1\%$ max.

LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.

LOW TEMPERATURE OPERATION: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.

HIGH TEMPERATURE OPERATION: 250 hours @ 125°C , MIL-R-22097, 4.6.17, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.

ROTATIONAL LIFE: 100 cycles, MIL-R-22097, 4.6.18, TRS $\pm 5\%$ max.

IMMERSION SEAL: 85°C one minute, MIL-R-22097, 4.6.21.

C&K TR04 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

Surface Mount, Thru-hole, 4mm Square, Cermet, Single-turn, Top Adjust



TR04G500



TR04J500

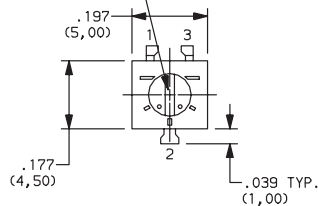


TR04H500

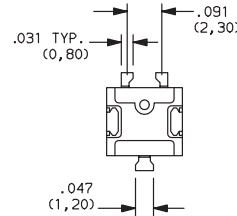
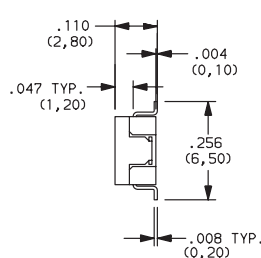
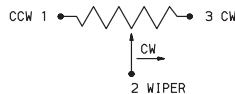
- 4mm square, space saving size
- Designed for reflow and IR solder methods
- Available with surface mount and thru-hole terminals
- Process compatible
- Bulk packaging is standard—embossed tape and reel available for surface mount models only

GULL-WING TERMINALS

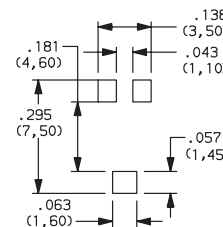
.024 W x .102 L x .024 D
(0,6) x (2,6) x (0,6)



SCHEMATIC



PC MOUNTING

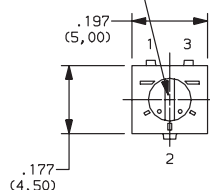


PART NO.	RESISTANCE (OHMS)
TR04G500	50
TR04G101	100
TR04G201	200
TR04G501	500
TR04G102	1K
TR04G202	2K
TR04G502	5K
TR04G103	10K
TR04G203	20K
TR04G503	50K
TR04G104	100K
TR04G204	200K
TR04G504	500K
TR04G105	1M
TR04G205	2M

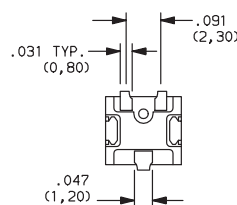
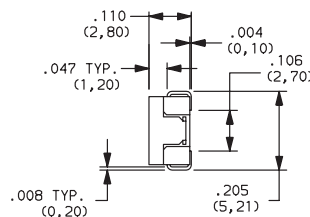
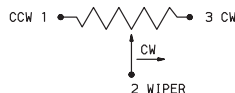
NOTE: Bulk packaging is standard, embossed tape and reel available. When ordering embossed tape and reel packaging for surface mount models, add suffix 'T' to end of part number.

J-BEND TERMINALS

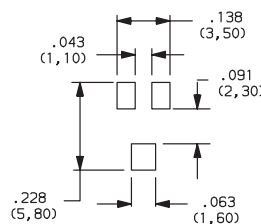
.024 W x .102 L x .024 D
(0,6) x (2,6) x (0,6)



SCHEMATIC



PC MOUNTING



PART NO.	RESISTANCE (OHMS)
TR04J500	50
TR04J101	100
TR04J201	200
TR04J501	500
TR04J102	1K
TR04J202	2K
TR04J502	5K
TR04J103	10K
TR04J203	20K
TR04J503	50K
TR04J104	100K
TR04J204	200K
TR04J504	500K
TR04J105	1M
TR04J205	2M

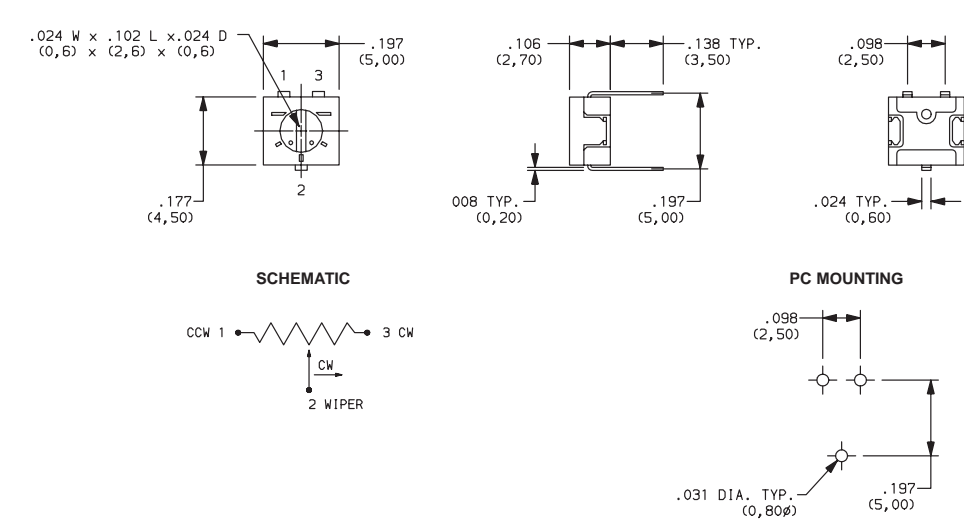
NOTE: Bulk packaging is standard, embossed tape and reel available. When ordering embossed tape and reel packaging for surface mount models, add suffix 'T' to end of part number.

C&K TR04 Series

Sealed* Trimming Potentiometers

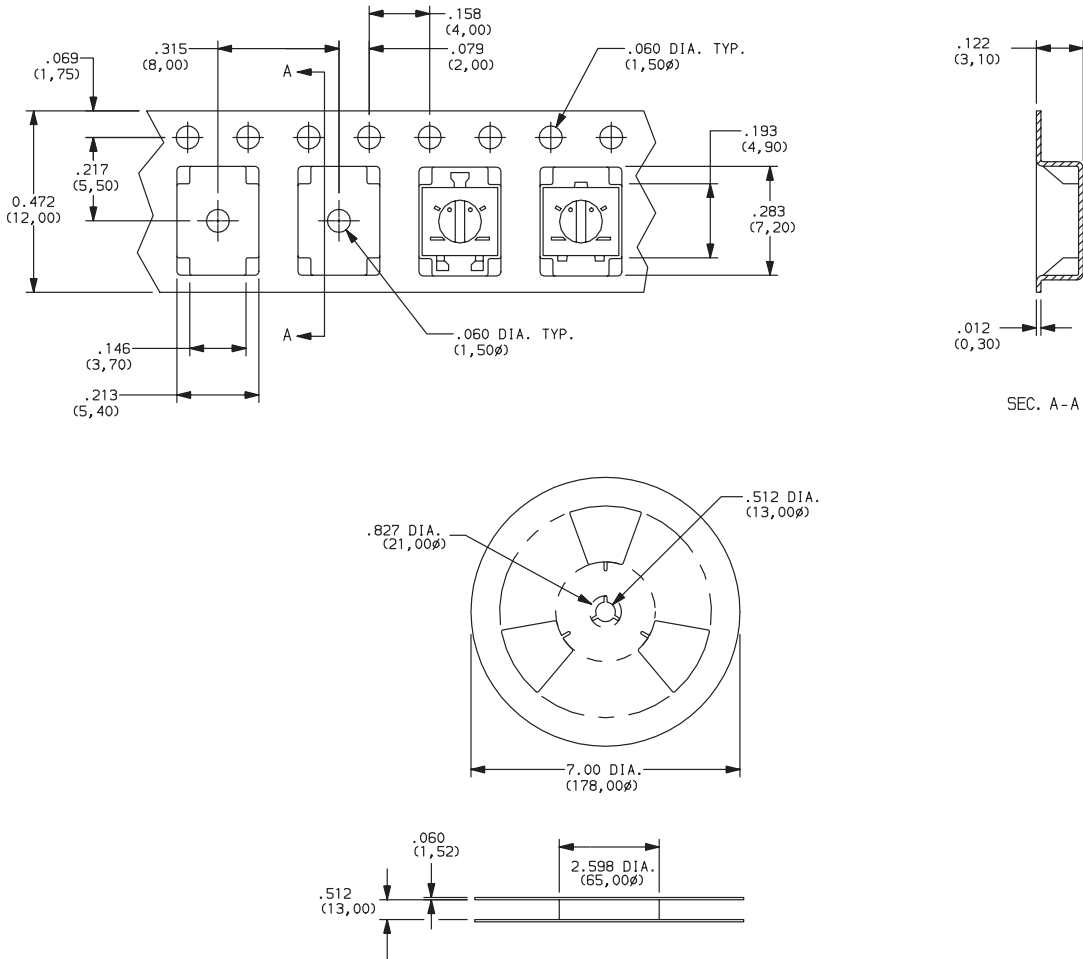
*Process sealed-withstands soldering and cleaning processes.

THRU-HOLE TERMINALS



PART NO.	RESISTANCE (OHMS)
TR04H500	50
TR04H101	100
TR04H201	200
TR04H501	500
TR04H102	1K
TR04H202	2K
TR04H502	5K
TR04H103	10K
TR04H203	20K
TR04H503	50K
TR04H104	100K
TR04H204	200K
TR04H504	500K
TR04H105	1M
TR04H205	2M

EMBOSSED TAPE AND REEL PACKAGING (surface mount models only)



NOTE: When ordering embossed tape and reel packaging for surface mount models, add suffix 'T' to end of part number.

C&K TR04 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

HOW TO ORDER

To order, specify complete part number for desired model. When ordering embossed tape and reel packaging for surface mount models, add suffix 'T' to the part number (i.e., TR04G500T). Bulk packaging is standard.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 50 ohms to 2 megohms.
RESISTANCE TOLERANCE: $\pm 20\%$.
END RESISTANCE: 1% or 3 ohms, whichever is greater.
PEAK NOISE (CRV): 2% or 3 ohms, whichever is greater, MIL-R-22097, 4.6.4.
TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
INSULATION RESISTANCE: 100 megohms min. @ 500 V DC, MIL-STD-202, method 302, condition B.
DIELECTRIC STRENGTH: 500 V AC min. at atmospheric pressure, at reduced barometric pressure (70,000 feet), MIL-STD-202, method 105C, condition C.
POWER RATING: 0.25 watt at 70°C , 0 watt at 125°C .
MAXIMUM WORKING VOLTAGE: 200 V DC.
ELECTRICAL TRAVEL: $200^\circ \pm 10^\circ$.

MECHANICAL

MECHANICAL TRAVEL: $240^\circ \pm 10^\circ$.
OPERATING TORQUE: 150gf cm max.
STOP STRENGTH: 300gf cm min.
COVER PLATE: Stainless steel.
BASE: PPS (UL 94V-0).
ROTOR: LCP (UL 94V-0), with internal o-ring seal.
TERMINALS: Copper alloy, 60/40 tin-lead plated. All terminals insert molded.
TERMINAL SEAL: Epoxy.
WIPER CONTACT: Multi-metal alloy wire.
RESISTIVE ELEMENT: Cermet, on ceramic substrate.
PACKAGING: Bulk is standard. Embossed tape and reel available for surface mount models only (500 pcs. per reel); see page 4 for specifications.

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
THERMAL SHOCK: -55°C , $+125^\circ\text{C}$, 30 minutes each, 5 cycles MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.
MOISTURE RESISTANCE: Humidity cycle, MIL-STD-202, method 106D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
HUMIDITY: 40°C , 90 to 95% RH, MIL-STD-202, method 103B, condition C, TRS $\pm 3\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
SHOCK: 100G, MIL-STD-202, method 213B, condition I, TRS $\pm 1\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.
VIBRATION: 10 to 2,000 Hz, 1.5m/m or 20G, MIL-STD-202, method 204D, TRS $\pm 1\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.
SOLDERING HEAT: 10 sec. @ 260°C , max., TRS $\pm 1\%$ max.
LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
LOW TEMPERATURE OPERATION: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
HIGH TEMPERATURE OPERATION: 250 hours @ 125°C , MIL-R-22097, 4.6.17, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
ROTATIONAL LIFE: 100 cycles, MIL-R-22097, 4.6.18, TRS $\pm 5\%$ max.
IMMERSION SEAL: 85°C one minute, MIL-R-22097, 4.6.21.

C&K TR04SA Series

Sealed* Trimming Potentiometers

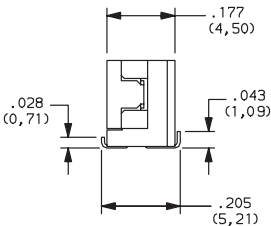
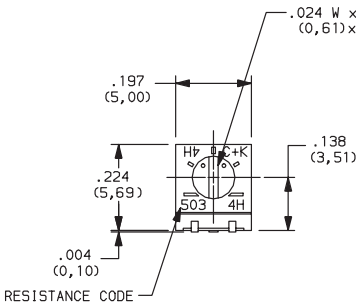
*Process sealed—withstands soldering and cleaning processes.

Surface Mount, 4mm, Cermet, Single-turn, Side Adjust

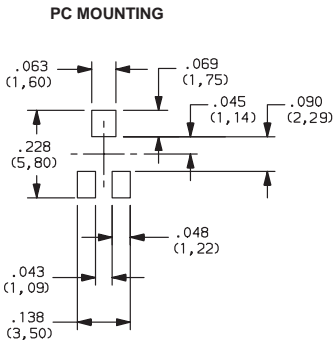
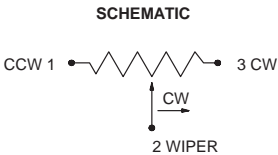
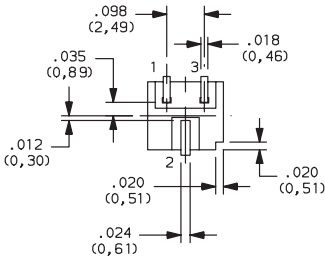


TR04SA500

- 4mm, space saving size
 - Side adjustable, perfectly suited for low profile applications or stacked PCB's
 - Designed for reflow and IR solder methods
- Process compatible
 - Bulk packaging is standard—embossed tape and reel available



PART NO.	RESISTANCE (OHMS)
TR04SA500	50
TR04SA101	100
TR04SA201	200
TR04SA501	500
TR04SA102	1K
TR04SA202	2K
TR04SA502	5K
TR04SA103	10K
TR04SA203	20K
TR04SA503	50K
TR04SA104	100K
TR04SA204	200K
TR04SA504	500K
TR04SA105	1M
TR04SA205	2M

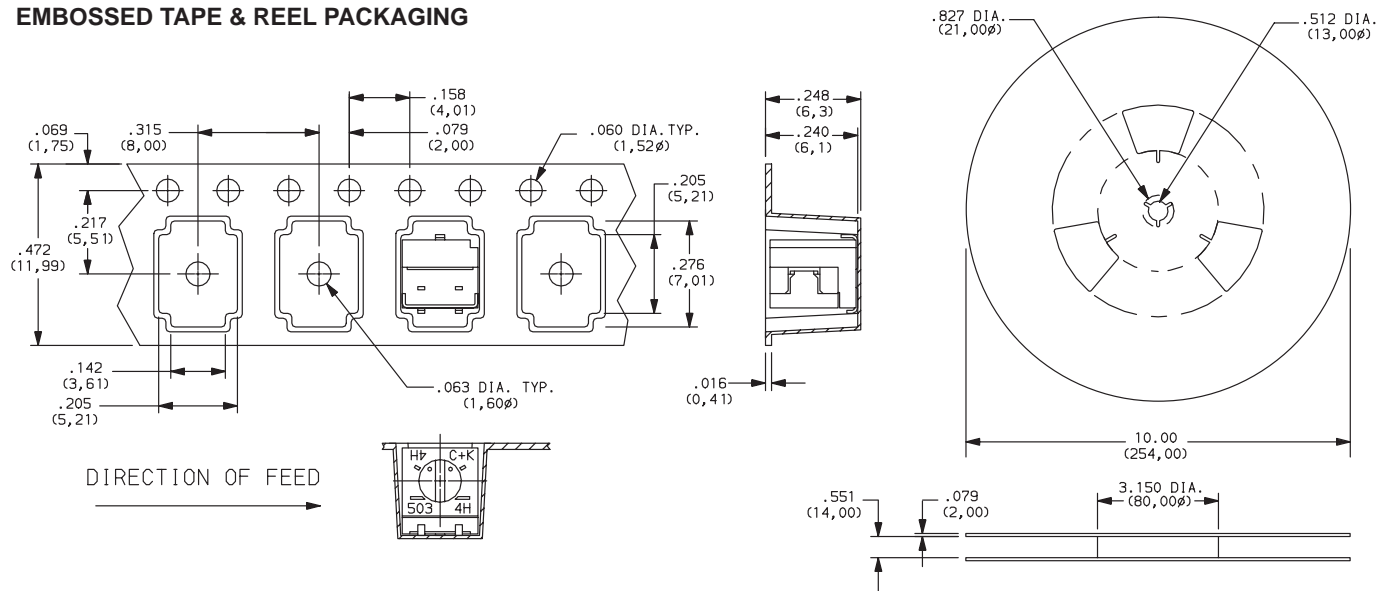


NOTE: Bulk packaging is standard, embossed tape and reel available. When ordering embossed tape and reel packaging, add suffix 'T' to end of part number.

C&K TR04SA Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

EMBOSSSED TAPE & REEL PACKAGING



HOW TO ORDER

To order, specify complete part number for desired model. When ordering embossed tape and reel packaging for surface mount models, add suffix 'T' to the part number (i.e., TR04G500T). Bulk packaging is standard.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 50 ohms to 2 megohm.
RESISTANCE TOLERANCE: $\pm 20\%$.
END RESISTANCE: 1% or 3 ohms, whichever is greater.
PEAK NOISE (CRV): 2% or 3 ohms, whichever is greater, MIL-R-22097, 4.6.4.
TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
INSULATION RESISTANCE: 100 megohms min. @ 500 V DC, MIL-STD-202, method 302, condition B.
DIELECTRIC STRENGTH: 500 V AC, min. at atmospheric pressure, at reduced barometric pressure (70,000 feet), MIL-STD-202, method 105C, condition C.
POWER RATING: 0.25 watt at 70°C , 0 watt at 125°C .
MAXIMUM WORKING VOLTAGE: 200 V DC.
ELECTRICAL TRAVEL: $200^\circ \pm 10^\circ$.

MECHANICAL

MECHANICAL TRAVEL: $240^\circ \pm 10^\circ$.
OPERATING TORQUE: 150gf cm max.
STOP STRENGTH: 300gf cm min.
COVER PLATE: Stainless steel.
BASE: PPS (UL 94V-0).
ROTOR: LCP (UL 94V-0), with internal o-ring seal.
TERMINALS: Copper alloy, 60/40 tin-lead plated. All terminals insert molded.
TERMINAL SEAL: Epoxy.
WIPER CONTACT: Multi-metal alloy wire.
RESISTIVE ELEMENT: Cermet, on ceramic substrate.
PACKAGING: Bulk is standard. Embossed tape and reel available (750 pcs. per reel).

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
THERMAL SHOCK: -55°C , $+125^\circ\text{C}$, 30 minutes each, 5 cycles MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.
MOISTURE RESISTANCE: Humidity cycle, MIL-STD-202, method 106D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
HUMIDITY: 40°C , 90 to 95% RH, MIL-STD-202, method 103B, condition C, TRS $\pm 3\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
SHOCK: 100G, MIL-STD-202, method 213B, condition I, TRS $\pm 1\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.
VIBRATION: 10 to 2,000 Hz, 1.5m/m or 20G, MIL-STD-202, method 204D, TRS $\pm 1\%$ max., setting stability (voltage ratio) $\pm 1\%$ max.
SOLDERING HEAT: 10 sec. @ 260°C , max., TRS $\pm 1\%$ max.
LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
LOW TEMPERATURE OPERATION: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
HIGH TEMPERATURE OPERATION: 250 hours @ 125°C , MIL-R-22097, 4.6.17, TRS $\pm 2\%$ max., setting stability (voltage ratio) $\pm 2\%$ max.
ROTATIONAL LIFE: 100 cycles, MIL-R-22097, 4.6.18, TRS $\pm 5\%$ max.
IMMERSION SEAL: 85°C one minute, MIL-R-22097, 4.6.21.

C&K TR06 Series

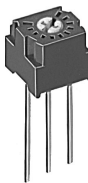
Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

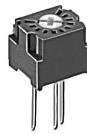
Single-turn, 1/4" Square, Cermet, Top Adjust



TR06P100

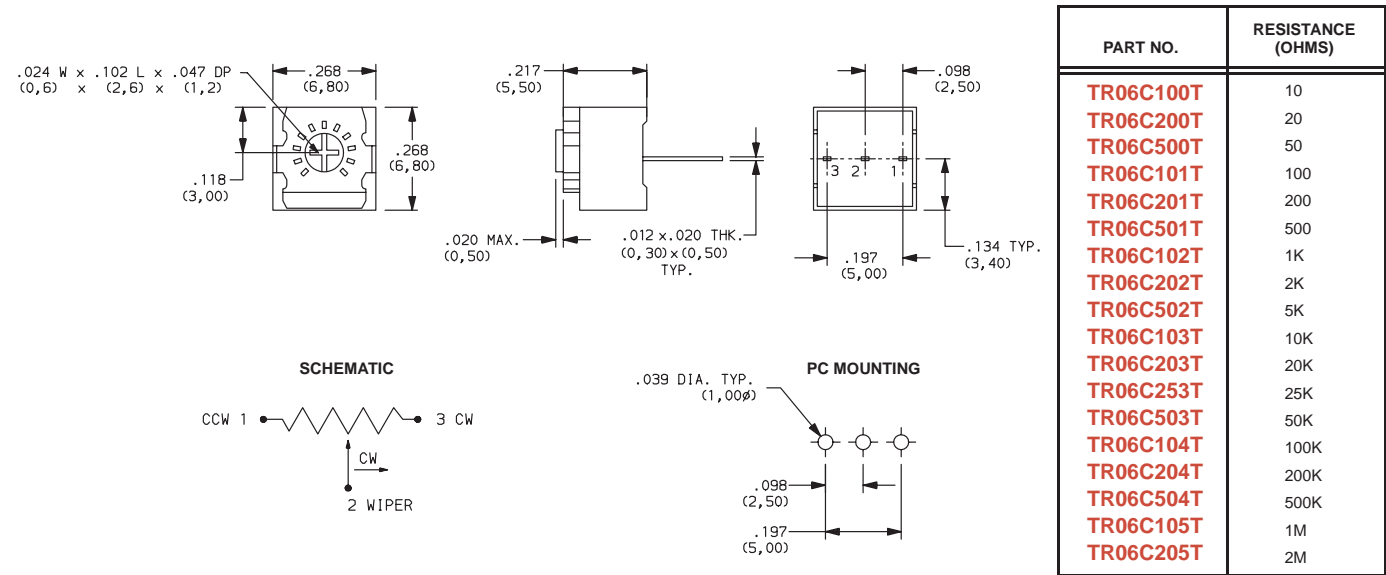


TR06C100T

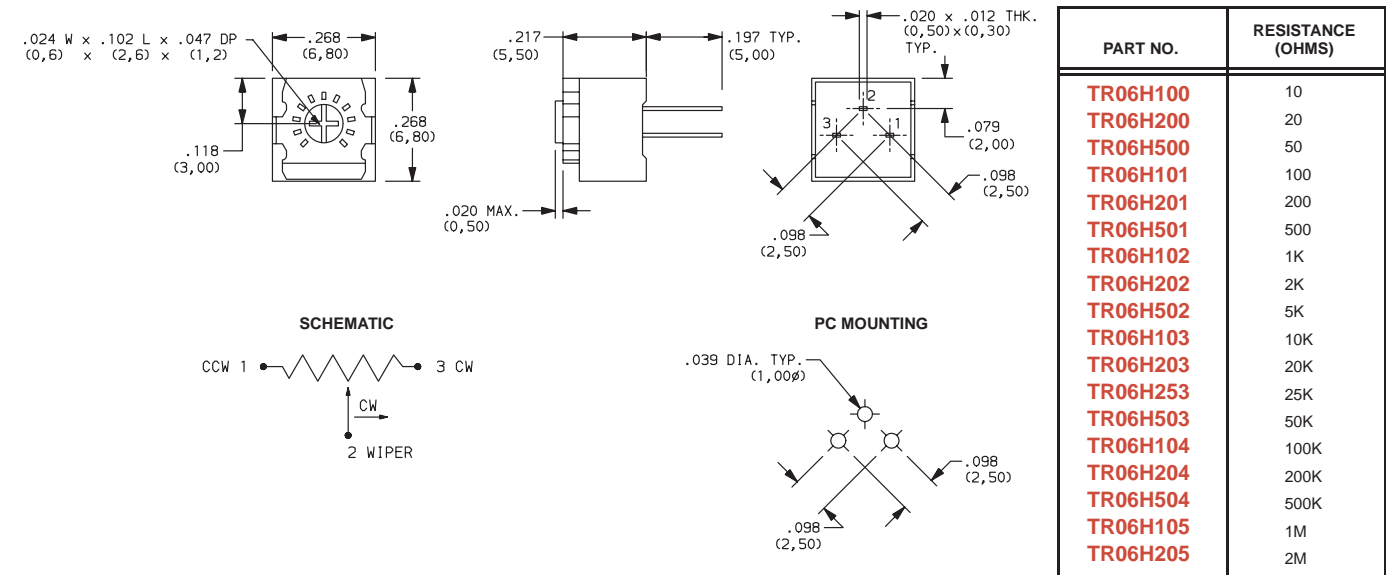


TR06H100

- Flame retardant construction meets UL 94V-0 requirements
- Process compatible
- Three thru-hole terminal styles—wide terminal spacing available with TR06P models only
- Tape and reel packaging standard with TR06C models

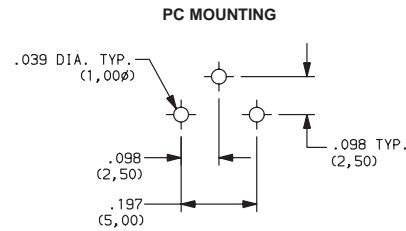
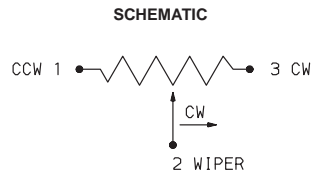
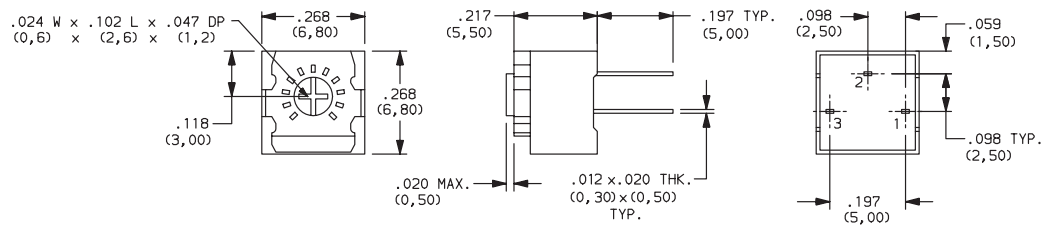


NOTE: Tape and reel packaging standard with TR06C models.



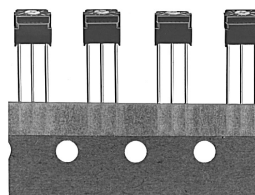
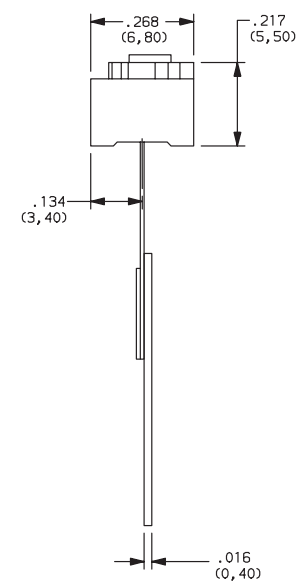
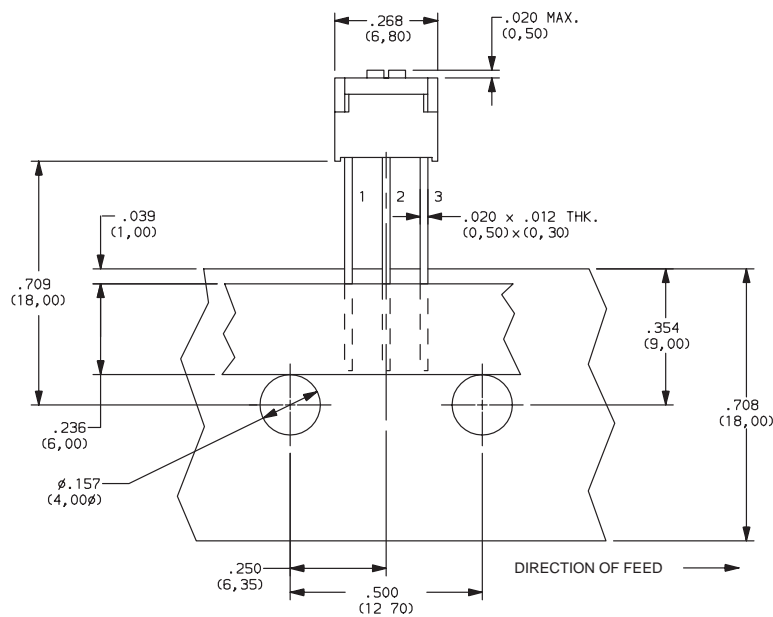
C&K TR06 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.



PART NO.	RESISTANCE (OHMS)
TR06P100	10
TR06P200	20
TR06P500	50
TR06P101	100
TR06P201	200
TR06P501	500
TR06P102	1K
TR06P202	2K
TR06P502	5K
TR06P103	10K
TR06P203	20K
TR06P253	25K
TR06P503	50K
TR06P104	100K
TR06P204	200K
TR06P504	500K
TR06P105	1M
TR06P205	2M

TAPE AND REEL PACKAGING (TR06C models only)



NOTE: Tape and reel packaging standard with TR06C models.

C&K TR06 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

HOW TO ORDER

To order, specify complete part number for desired model. Other resistance values and special configurations available, consult factory.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 10 ohms to 2 megohms.
RESISTANCE TOLERANCE: $\pm 10\%$ 100 ohms to 2 megohms;
 $\pm 20\%$ 10 ohms to 50 ohms.
RESISTANCE TAPER: Linear.
END RESISTANCE: 1% or 3 ohms, whichever is greater.
PEAK NOISE (CRV): 1% or 1 ohms, whichever is greater.
TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to
1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
INSULATION RESISTANCE: 100 megohms min. @ 500 V DC.
DIELECTRIC STRENGTH: 500 V AC min.
POWER RATING: 0.5 watt at 70°C , 0 watt at 125°C .
MAXIMUM WORKING VOLTAGE: 250 V DC.
ELECTRICAL TRAVEL: $210^\circ \pm 10^\circ$.

MECHANICAL

MECHANICAL TRAVEL: $250^\circ \pm 10^\circ$.
OPERATING TORQUE: 200 gf cm max.
STOP STRENGTH: 500gf cm min.
HOUSING: PBT (UL94-0).
WIPER CONTACT: Multi-metal alloy wire.
ROTOR: PBT (UL 94V-0), with internal o-ring seal.
TERMINALS: Copper alloy, 60/40 tin-lead plated.
TERMINAL SEAL: Epoxy.
RESISTIVE ELEMENT: Cermet, on ceramic base.
PACKAGING: Bulk is standard. Embossed tape and reel standard
for TR06C models only (1000 pcs. per reel); see page 9 for
specifications.

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, 5 cycles
MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability
 $\pm 1\%$ max.
MOISTURE RESISTANCE: 40°C , 90 to 95% RH, MIL-STD-202, method
106D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
HUMIDITY: MIL-STD-202, method 103B, TRS $\pm 3\%$ max., setting
stability $\pm 2\%$ max.
SHOCK: 100G, MIL-STD-202, method 213B, TRS $\pm 1\%$ max., setting
stability $\pm 1\%$ max.
VIBRATION: 10 to 2,000 Hz, 20G's, MIL-STD-202, method 204D, TRS
 $\pm 1\%$ max., setting stability $\pm 1\%$ max.
SOLDERING HEAT: 3 sec. @ 350°C , TRS $\pm 1\%$ max.
LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D,
 $\pm 3\%$ max., setting stability $\pm 2\%$ max.
LOW TEMPERATURE OPERATION: 45 minutes @ -55°C , MIL-R-22097,
4.6.16, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
HIGH TEMPERATURE OPERATION: 250 hours @ 125°C , MIL-R-22097,
4.6.17, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.
ROTATIONAL LIFE: 100 cycles, MIL-R-22097, 4.6.18, TRS $\pm 5\%$ max.
IMMERSION SEAL: 85°C one minute, MIL-R-22097, 4.6.21.

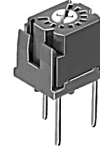
C&K TR07 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

Single-turn, 1/4" Square, Cermet, Top Adjust

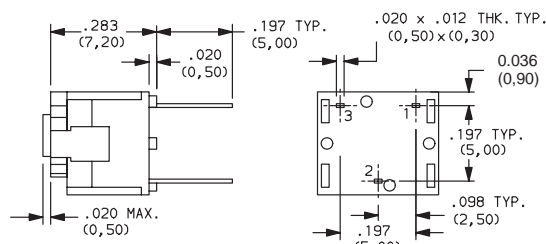
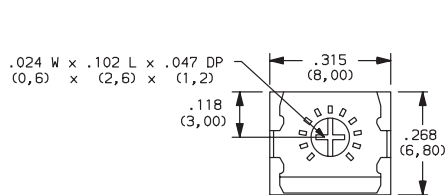


TR07F100

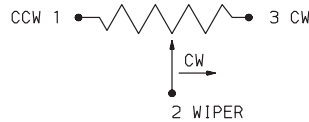


TR07P100

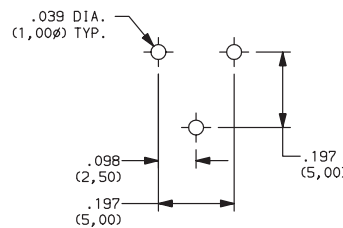
- Flame retardant construction meets UL 94V-0 requirements
- Two thru-hole terminal styles—wide and narrow terminal spacing available
- Process compatible



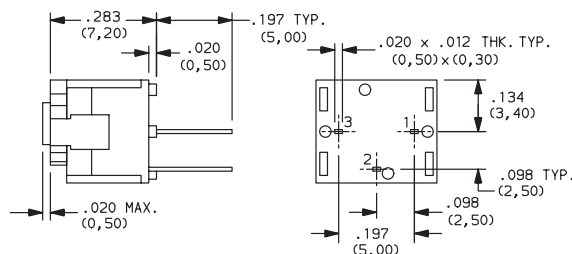
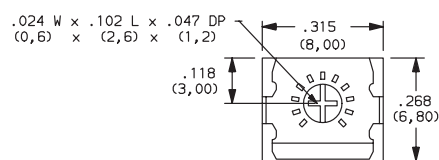
SCHEMATIC



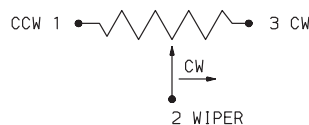
PC MOUNTING



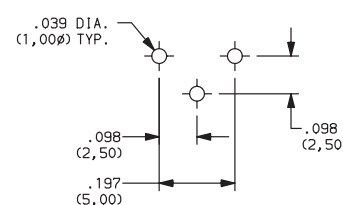
PART NO.	RESISTANCE (OHMS)
TR07F100	10
TR07F200	20
TR07F500	50
TR07F101	100
TR07F201	200
TR07F501	500
TR07F102	1K
TR07F202	2K
TR07F502	5K
TR07F103	10K
TR07F203	20K
TR07F253	25K
TR07F503	50K
TR07F104	100K
TR07F204	200K
TR07F504	500K
TR07F105	1M
TR07F205	2M
TR07F505	5M



SCHEMATIC



PC MOUNTING



PART NO.	RESISTANCE (OHMS)
TR07P100	10
TR07P200	20
TR07P500	50
TR07P101	100
TR07P201	200
TR07P501	500
TR07P102	1K
TR07P202	2K
TR07P502	5K
TR07P103	10K
TR07P203	20K
TR07P253	25K
TR07P503	50K
TR07P104	100K
TR07P204	200K
TR07P504	500K
TR07P105	1M
TR07P205	2M
TR07P505	5M

C&K TR07 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

HOW TO ORDER

To order, specify complete part number for desired model.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 10 ohms to 2 megohms.

RESISTANCE TOLERANCE: $\pm 10\%$ 100 ohms to 2 megohms;
 $\pm 20\%$ 10 ohms to 50 ohms.

RESISTANCE TAPER: Linear.

END RESISTANCE: 1% or 3 ohms, whichever is greater.

PEAK NOISE (CRV): 1% or 1 ohms, whichever is greater.

TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to
1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).

INSULATION RESISTANCE: 100 megohms min. @ 500 V DC.

DIELECTRIC STRENGTH: 500 V AC min.

POWER RATING: 0.5 watt at 70°C , 0 watt at 125°C .

MAXIMUM WORKING VOLTAGE: 250 V DC.

ELECTRICAL TRAVEL: $210^\circ \pm 10^\circ$.

MECHANICAL

MECHANICAL TRAVEL: $250^\circ \pm 10^\circ$.

OPERATING TORQUE: 200gf cm max.

STOP STRENGTH: 500gf cm min.

HOUSING: PBT.

WIPER CONTACT: Multi-metal alloy wire.

ROTOR: PBT, with internal o-ring seal.

TERMINALS: Copper alloy, 60/40 tin-lead plated.

TERMINAL SEAL: Epoxy.

RESISTIVE ELEMENT: Cermet, on ceramic base.

PACKAGING: Bulk is standard.

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.

THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, 5 cycles
MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability
 $\pm 1\%$ max.

MOISTURE RESISTANCE: 40°C , 90 to 95% RH, MIL-STD-202,
method 106D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.

HUMIDITY: MIL-STD-202, method 103B, TRS $\pm 3\%$ max., setting
stability $\pm 2\%$ max.

SHOCK: 100G, MIL-STD-202, method 213B, TRS $\pm 1\%$ max., setting
stability $\pm 1\%$ max.

VIBRATION: 10 to 2,000 Hz, 20G's, MIL-STD-202, method 204D, TRS
 $\pm 1\%$ max., setting stability $\pm 1\%$ max.

SOLDERING HEAT: 3 sec. @ 350°C , max., TRS $\pm 1\%$ max.

LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D,
TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.

LOW TEMPERATURE EXPOSURE: 45 minutes @ -55°C , MIL-R-22097,
4.6.16, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.

HIGH TEMPERATURE EXPOSURE: 250 hours @ 125°C , MIL-R-22097,
4.6.17, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.

ROTATIONAL LIFE: 100 cycles, MIL-R-22097, 4.6.18, TRS $\pm 5\%$ max.

IMMERSION SEAL: 85°C one minute, MIL-R-22097, 4.6.21.

C&K TR08 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

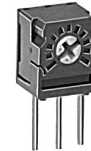
Single-turn, 1/4" Square, Cermet, Side Adjust



TR08A100

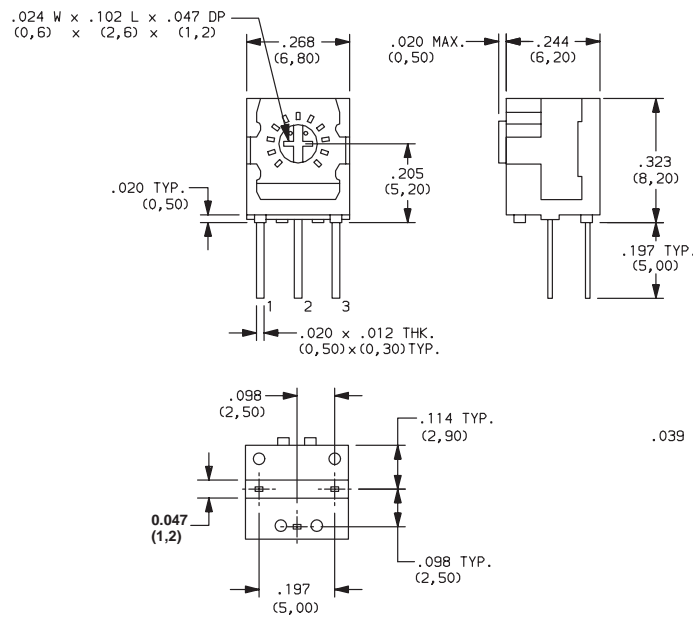


TR08X100

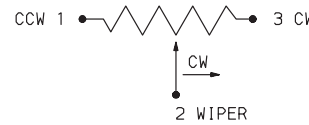


TR08W100T

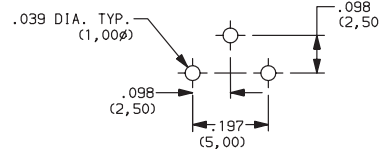
- Flame retardant construction meets UL 94V-0 requirements
- Process compatible
- Thru-hole terminal styles
- Tape and reel packaging standard with TR08W models



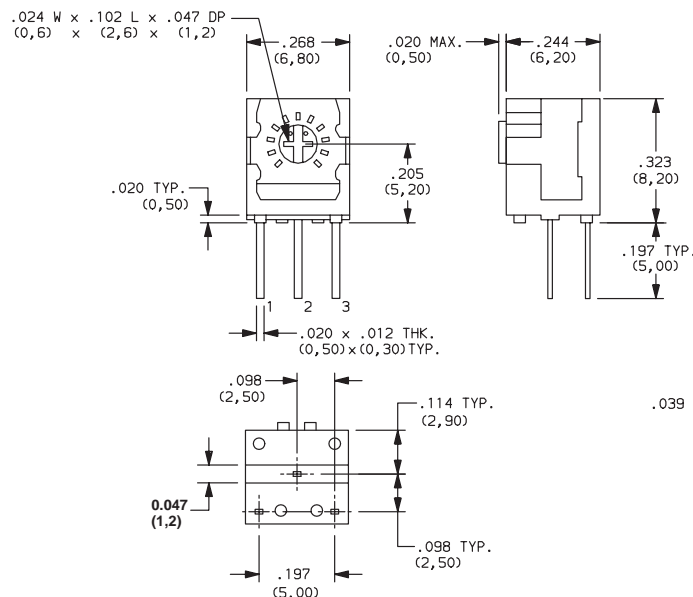
SCHEMATIC



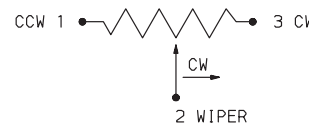
PC MOUNTING



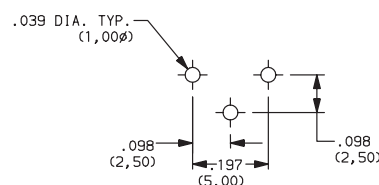
PART NO.	RESISTANCE (OHMS)
TR08A100	10
TR08A200	20
TR08A500	50
TR08A101	100
TR08A201	200
TR08A501	500
TR08A102	1K
TR08A202	2K
TR08A502	5K
TR08A103	10K
TR08A203	20K
TR08A253	25K
TR08A503	50K
TR08A104	100K
TR08A204	200K
TR08A504	500K
TR08A105	1M
TR08A205	2M



SCHEMATIC



PC MOUNTING

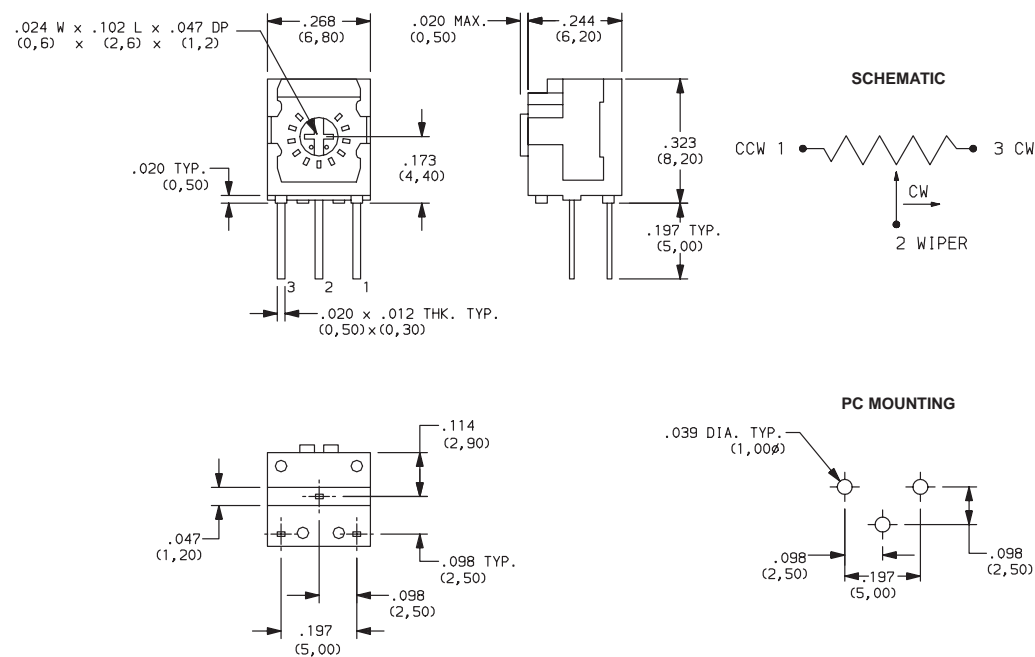


PART NO.	RESISTANCE (OHMS)
TR08H100	10
TR08H200	20
TR08H500	50
TR08H101	100
TR08H201	200
TR08H501	500
TR08H102	1K
TR08H202	2K
TR08H502	5K
TR08H103	10K
TR08H203	20K
TR08H253	25K
TR08H503	50K
TR08H104	100K
TR08H204	200K
TR08H504	500K
TR08H105	1M
TR08H205	2M

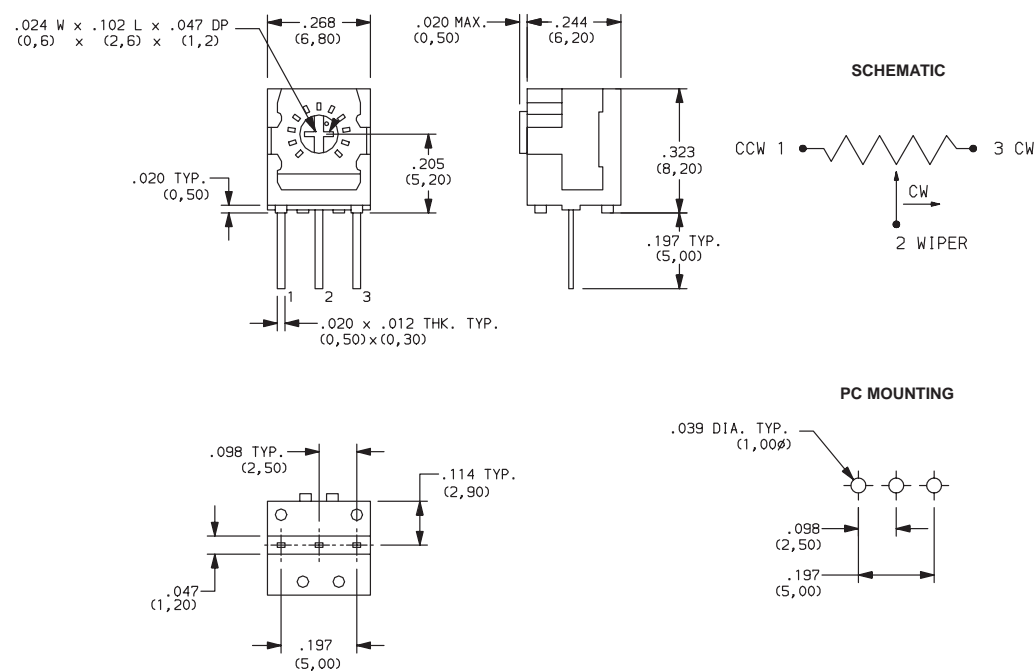
C&K TR08 Series

Sealed* Trimming Potentiometers

*Process sealed-withstands soldering and cleaning processes.



PART NO.	RESISTANCE (OHMS)
TR08X100	10
TR08X200	20
TR08X500	50
TR08X101	100
TR08X201	200
TR08X501	500
TR08X102	1K
TR08X202	2K
TR08X502	5K
TR08X103	10K
TR08X203	20K
TR08X253	25K
TR08X503	50K
TR08X104	100K
TR08X204	200K
TR08X504	500K
TR08X105	1M
TR08X205	2M



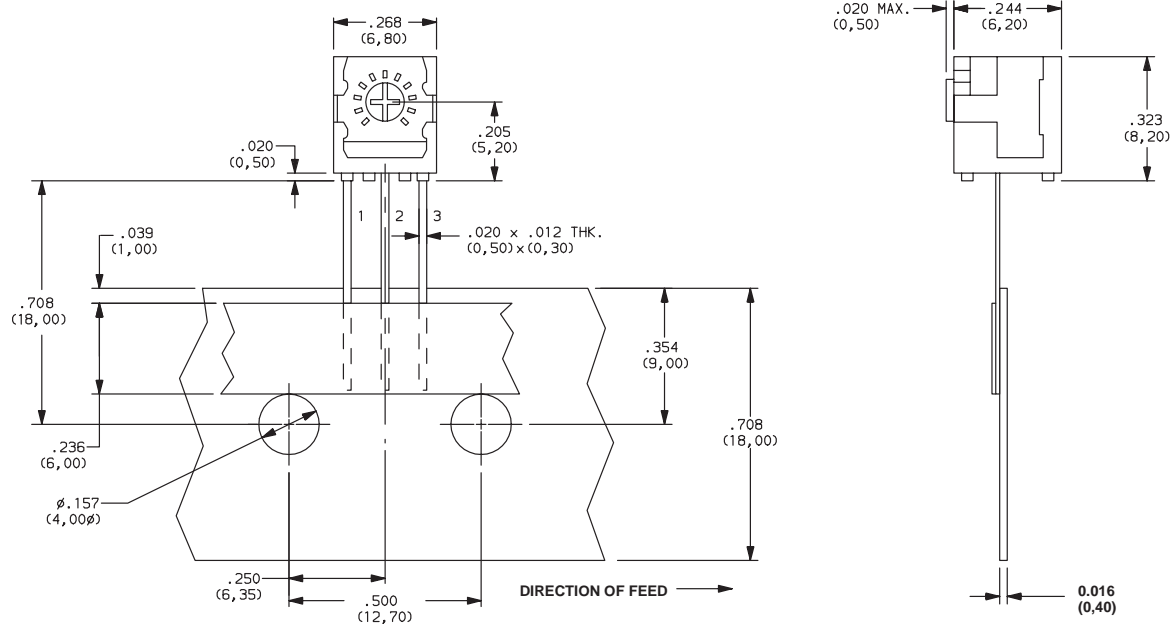
PART NO.	RESISTANCE (OHMS)
TR08W100T	10
TR08W200T	20
TR08W500T	50
TR08W101T	100
TR08W201T	200
TR08W501T	500
TR08W102T	1K
TR08W202T	2K
TR08W502T	5K
TR08W103T	10K
TR08W203T	20K
TR08W253T	25K
TR08W503T	50K
TR08W104T	100K
TR08W204T	200K
TR08W504T	500K
TR08W105T	1M
TR08W205T	2M
TR08W505T	5M

NOTE: Tape and reel packaging standard with TR08W models.

C&K TR08 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

TAPE AND REEL PACKAGING (TR08W models only)



NOTE: Tape and reel packaging standard with TR08W models.

HOW TO ORDER

To order, specify complete part number for desired model. Other resistance values and special configurations available, consult factory.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 10 ohms to 2 megohms.
RESISTANCE TOLERANCE: $\pm 10\%$ 100 ohms to 2 megohms;
 $\pm 20\%$ 10 ohms to 50 ohms.
RESISTANCE TAPER: Linear.
END RESISTANCE: 1% or 3 ohms, whichever is greater.
PEAK NOISE (CRV): 1% or 1 ohms, whichever is greater.
TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
INSULATION RESISTANCE: 100 megohms min. @ 500 V DC.
DIELECTRIC STRENGTH: 500 V AC min.
POWER RATING: 0.5 watt at 70°C , 0 watt at 125°C .
MAXIMUM WORKING VOLTAGE: 250 V DC.
ELECTRICAL TRAVEL: $210^\circ \pm 10^\circ$.

MECHANICAL

MECHANICAL TRAVEL: $250^\circ \pm 10^\circ$.
OPERATING TORQUE: 200gf cm max.
STOP STRENGTH: 500gf cm min.
HOUSING: PBT.
WIPER CONTACT: Multi-metal alloy wire.
ROTOR: PBT, with internal o-ring seal.
TERMINALS: Copper alloy, 60/40 tin-lead plated.
TERMINAL SEAL: Epoxy.
RESISTIVE ELEMENT: Cermet, on ceramic base.
PACKAGING: Bulk is standard. Tape and reel packaging is standard for TR08W models only (1,000 pcs. per reel); see above for specifications.

ENVIRONMENTAL

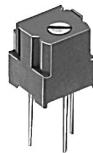
TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
THERMAL SHOCK: -55°C $+125^\circ\text{C}$, 30 minutes each, 5 cycles
MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability $\pm 1\%$ max.
MOISTURE RESISTANCE: 40°C , 90 to 95% RH, MIL-STD-202, method 106D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
HUMIDITY: MIL-STD-202, method 103B, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
SHOCK: 100G, MIL-STD-202, method 213B, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
VIBRATION: 10 to 2,000 Hz, 20G's, MIL-STD-202, method 204D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
SOLDERING HEAT: 3 sec. @ 350°C , max., TRS $\pm 1\%$ max.
LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
LOW TEMPERATURE EXPOSURE: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
HIGH TEMPERATURE EXPOSURE: 250 hours @ 125°C , MIL-R-22097, 4.6.17, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.
ROTATIONAL LIFE: 100 cycles, MIL-R-22097, 4.6.18, TRS $\pm 5\%$ max.
IMMERSION SEAL: 85°C one minute, MIL-R-22097, 4.6.21.

C&K TR52 Series

Sealed* Trimming Potentiometers

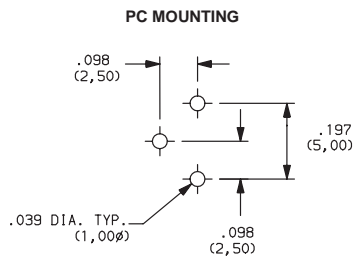
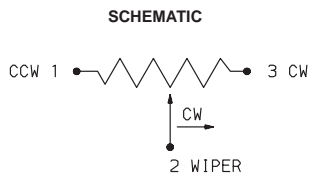
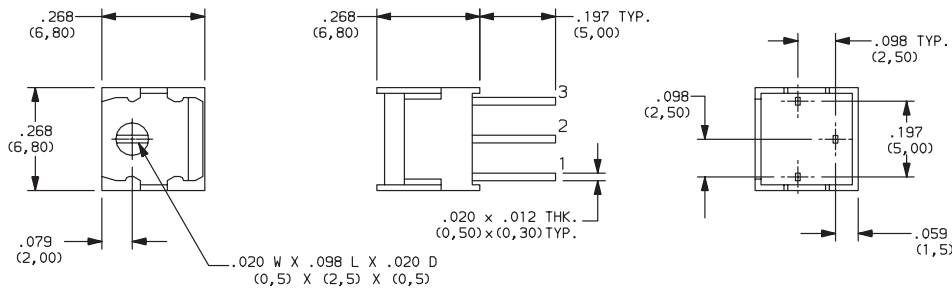
*Process sealed—withstands soldering and cleaning processes.

Multi-turn, 1/4" Square, Cermet, Top Adjust



TR52P100

- Flame retardant construction meets UL 94V-0 requirements
- Process compatible
- Excellent stability and low noise
- Two turns offers quick adjustment



PART NO.	RESISTANCE (OHMS)
TR52P100	10
TR52P200	20
TR52P500	50
TR52P101	100
TR52P201	200
TR52P501	500
TR52P102	1K
TR52P202	2K
TR52P502	5K
TR52P103	10K
TR52P203	20K
TR52P503	50K
TR52P104	100K
TR52P204	200K
TR52P504	500K
TR52P105	1M

C&K TR52 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

HOW TO ORDER

To order, specify complete part number for desired model.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 10 ohms to 1 megohm.
RESISTANCE TOLERANCE: $\pm 10\%$.
RESISTANCE TAPER: Linear.
END RESISTANCE: 1% or 3 ohms, whichever is greater.
PEAK NOISE (CRV): 1% or 1 ohm, whichever is greater.
TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
INSULATION RESISTANCE: 100 megohms min. @ 500 V DC.
DIELECTRIC STRENGTH: 500 V AC, min.
POWER RATING: 0.5 watt at 70°C , 0 watt at 125°C .
MAXIMUM WORKING VOLTAGE: 250 V DC.
ADJUSTMENT TRAVEL: 670° nominal.

MECHANICAL

MECHANICAL TRAVEL: $735^\circ \pm 10^\circ$.
OPERATING TORQUE: 200 gf cm max.
STOP STRENGTH: 300 gf cm min. (4.1 OZ-IN).
HOUSING: PBT.
ROTOR: PBT.
SHAFT: Brass, nickel plated.
TERMINALS: Steel, 60/40 tin-lead plated.
TERMINAL SEAL: Epoxy.
RESISTIVE ELEMENT: Cermet, on ceramic substrate.
PACKAGING: Bulk is standard.

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, 5 cycles, MIL-STD-202, method 107D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
MOISTURE RESISTANCE: 40°C , 90 to 95% RH, 1,000 hours MIL-STD-202, method 106D, TRS $\pm 3\%$ max.
HUMIDITY: MIL-STD-202, method 103B, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
SHOCK: 100G, MIL-STD-202, method 213B, TRS $\pm 2\%$ max., setting stability $\pm 1\%$ max.
VIBRATION: 10 to 2,000 Hz, 20G's, MIL-STD-202, method 204D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
SOLDERING HEAT: 3 sec. @ 350°C , TRS $\pm 1\%$ max.
THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, 5 cycles, MIL-STD-202, method 107D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
LOW TEMPERATURE EXPOSURE: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.
HIGH TEMPERATURE EXPOSURE: 250 hours @ 125°C , MIL-R-22097, 4.6.17, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.
ROTATIONAL LIFE: 100 cycles, MIL-R-22097, TRS $\pm 5\%$ max.
IMMERSION SEAL: 85°C , one minute, MIL-R-22097.

C&K TR53 Series

Sealed* Trimming Potentiometers

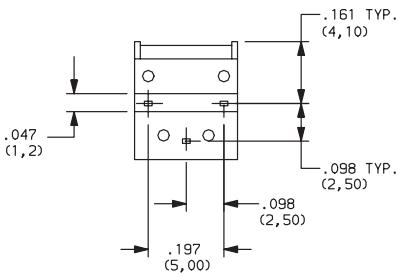
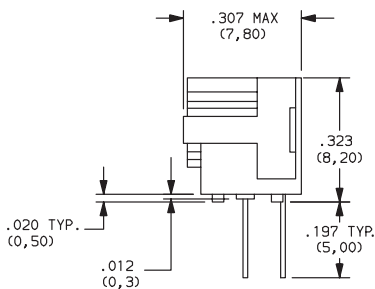
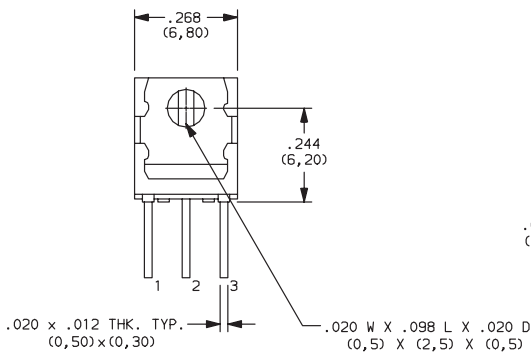
*Process sealed—withstands soldering and cleaning processes.

Multi-turn, 1/4" Square, Cermet, Side Adjust



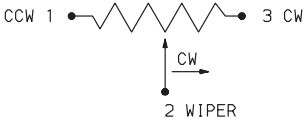
TR53S100

- Flame retardant construction meets UL 94V-0 requirements
- Process compatible
- Excellent stability and low noise
- Two turns offers quick adjustment

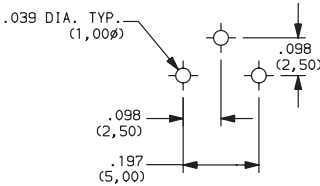


PART NO.	RESISTANCE (OHMS)
TR53S100	10
TR53S200	20
TR53S500	50
TR53S101	100
TR53S201	200
TR53S501	500
TR53S102	1K
TR53S202	2K
TR53S502	5K
TR53S103	10K
TR53S203	20K
TR53S503	50K
TR53S104	100K
TR53S204	200K
TR53S504	500K
TR53S105	1M

SCHEMATIC



PC MOUNTING



C&K TR53 Series Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

HOW TO ORDER

To order, specify complete part number for desired model.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 10 ohms to 1 megohm.
RESISTANCE TOLERANCE: $\pm 10\%$.
RESISTANCE TAPER: Linear.
END RESISTANCE: 1% or 3 ohms, whichever is greater.
PEAK NOISE (CRV): 1% or 1 ohm, whichever is greater.
TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
INSULATION RESISTANCE: 100 megohms min. @ 500 V DC.
DIELECTRIC STRENGTH: 500 V AC, min.
POWER RATING: 0.5 watt at 70°C , 0 watt at 125°C .
MAXIMUM WORKING VOLTAGE: 250 V DC.
ADJUSTMENT TRAVEL: 670° nominal.

MECHANICAL

MECHANICAL TRAVEL: $735^\circ \pm 10^\circ$.
OPERATING TORQUE: 200 gf cm max.
STOP STRENGTH: 300 gf cm min. (4.1 OZ-IN).
HOUSING: PBT.
ROTOR: PBT.
SHAFT: Brass, nickel plated.
TERMINALS: Steel, 60/40 tin-lead plated.
TERMINAL SEAL: Epoxy.
RESISTIVE ELEMENT: Cermet, on ceramic substrate.
PACKAGING: Bulk is standard.

ENVIRONMENTAL

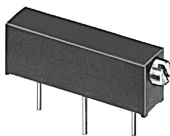
TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, 5 cycles, MIL-STD-202, method 107D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
MOISTURE RESISTANCE: 40°C , 90 to 95% RH, 1,000 hours MIL-STD-202, method 106D, TRS $\pm 3\%$ max.
HUMIDITY: MIL-STD-202, method 103B, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
SHOCK: 100G, MIL-STD-202, method 213B, TRS $\pm 2\%$ max., setting stability $\pm 1\%$ max.
VIBRATION: 10 to 2,000 Hz, 20G's, MIL-STD-202, method 204D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
SOLDERING HEAT: 3 sec. @ 350°C , TRS $\pm 1\%$ max.
THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, 5 cycles, MIL-STD-202, method 107D, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
LOW TEMPERATURE EXPOSURE: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.
HIGH TEMPERATURE EXPOSURE: 250 hours @ 125°C , MIL-R-22097, 4.6.17, TRS $\pm 2\%$ max., setting stability $\pm 2\%$ max.
ROTATIONAL LIFE: 100 cycles, MIL-R-22097, TRS $\pm 5\%$ max.
IMMERSION SEAL: 85°C , one minute, MIL-R-22097.

C&K TR62 Series

Sealed* Trimming Potentiometers

*Process sealed—withstands soldering and cleaning processes.

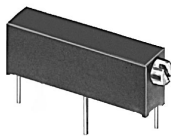
Multi-turn, 3/4" Rectangular, Cermet, Side Adjust



TR62P100

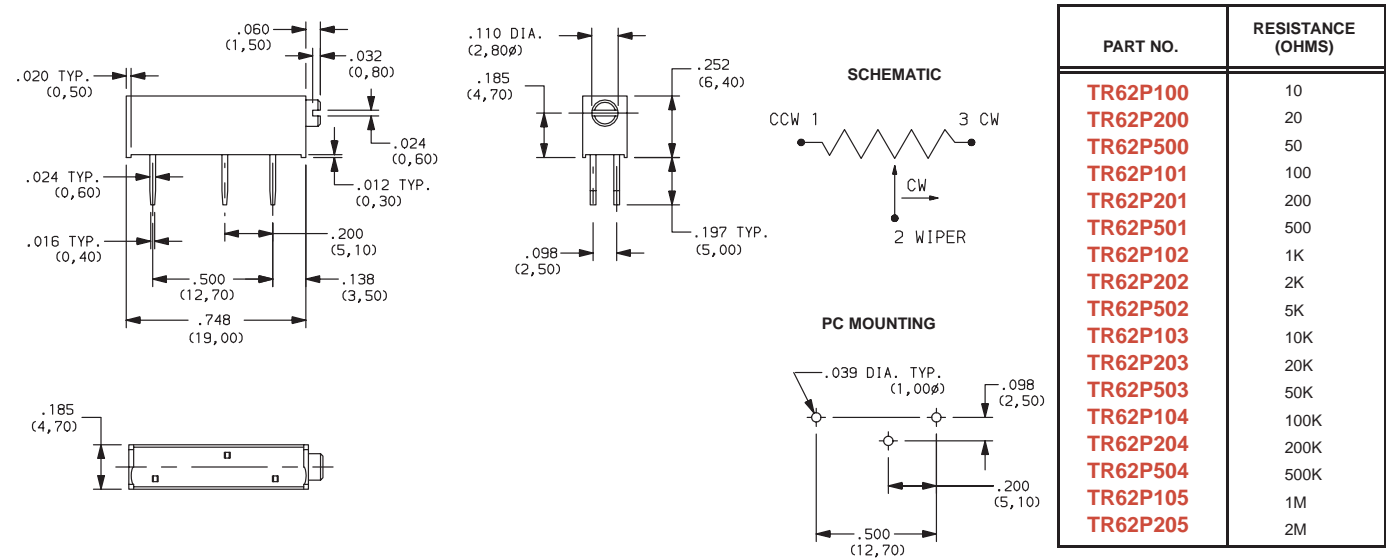


TR62P100C

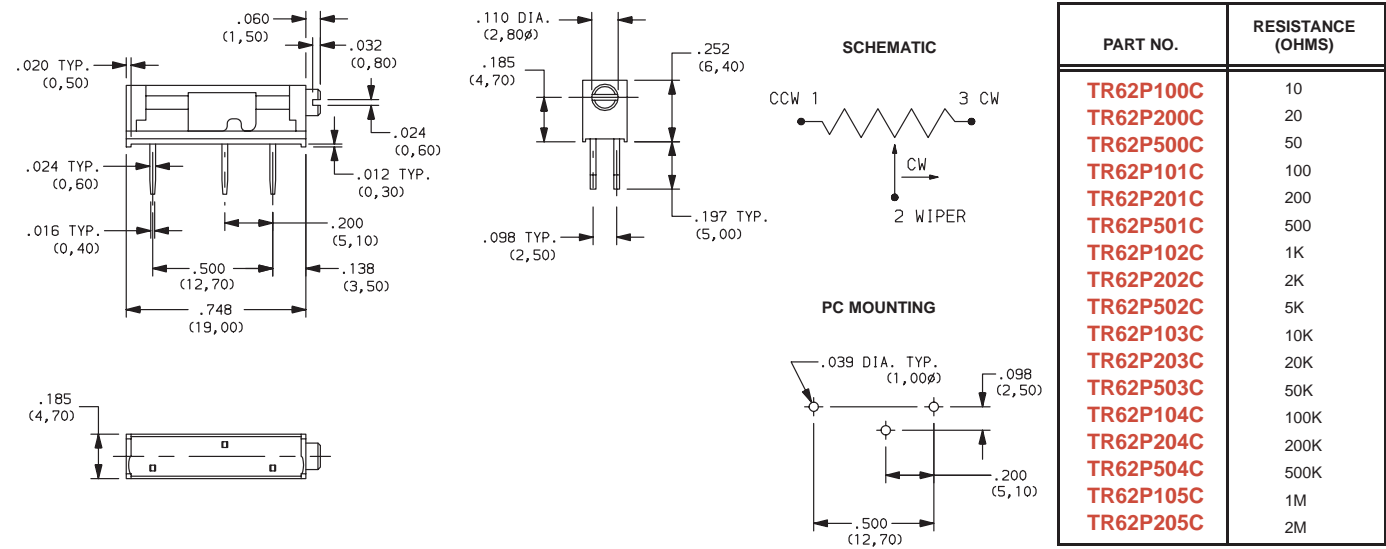


TR62Y100

- Flame retardant construction meets UL 94V-0 requirements
- Process compatible
- Two thru-hole terminal styles—wide terminal spacing available with TR62Y models only
- Available with optional knob in two styles—consult factory for additional information

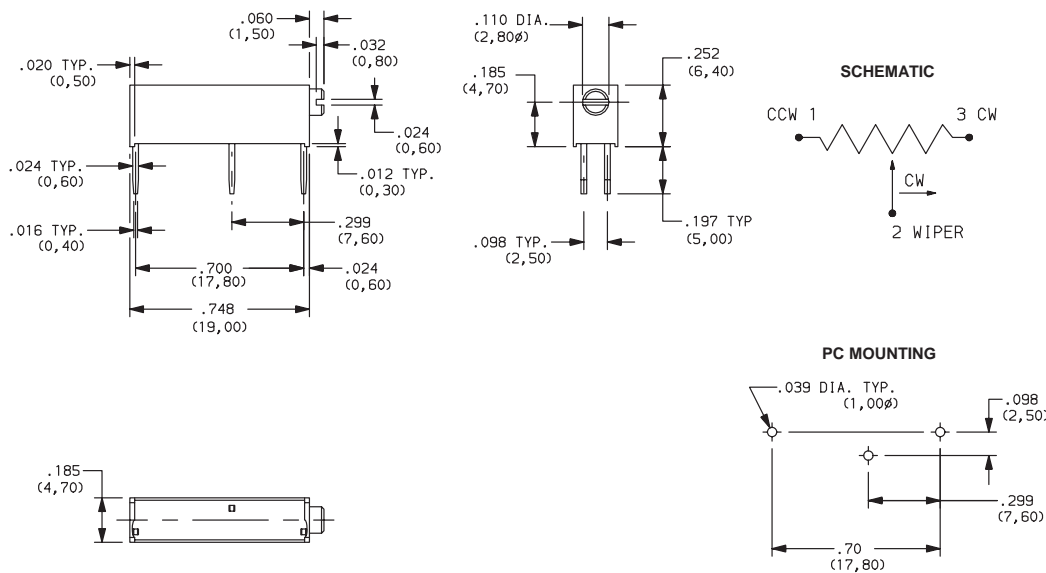


TRANSPARENT HOUSING



C&K TR62 Series Sealed* Trimming Potentiometers

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PART NO.	RESISTANCE (OHMS)
TR62Y100	10
TR62Y200	20
TR62Y500	50
TR62Y101	100
TR62Y201	200
TR62Y501	500
TR62Y102	1K
TR62Y202	2K
TR62Y502	5K
TR62Y103	10K
TR62Y203	20K
TR62Y503	50K
TR62Y104	100K
TR62Y204	200K
TR62Y504	500K
TR62Y105	1M
TR62Y205	2M

HOW TO ORDER

To order, specify complete part number for desired model. Other resistance values and special configurations available, consult factory.

SPECIFICATIONS

ELECTRICAL

RESISTANCE RANGE: 10 ohms to 2 megohm.
 RESISTANCE TOLERANCE: $\pm 10\%$.
 RESISTANCE TAPER: Linear.
 END RESISTANCE: 1% or 3 ohms, whichever is greater.
 PEAK NOISE (CRV): 1% or 1 ohm, whichever is greater.
 TEMPERATURE COEFFICIENT: $\pm 100\text{ppm}/^\circ\text{C}$, 200 ohms to 1 megohm ($\pm 250\text{ppm}/^\circ\text{C}$ on all other resistance values).
 INSULATION RESISTANCE: 1000 megohms min. @ 500 V DC.
 DIELECTRIC STRENGTH: 900 V AC, min.
 POWER RATING: 0.75 watt at 70°C , 0 watt at 125°C .
 MAXIMUM WORKING VOLTAGE: 300 V DC.
 ADJUSTMENT TRAVEL: 12 turns nominal.

MECHANICAL

ADJUSTMENT TURNS: 15 ± 3 turns.
 OPERATING TORQUE: 300 gf cm max.
 STOP STRENGTH: Clutch
 SHAFT PUSH STRENGTH: 10 N min. (1 Kg min.).
 HOUSING: PBT (opaque), PEI (transparent).
 SLIDER BLOCK: PBT.
 SHAFT: Brass, nickel plated.
 TERMINALS: Copper alloy, 60/40 tin-lead plated.
 TERMINAL SEAL: Epoxy.
 RESISTIVE ELEMENT: Cermet, on ceramic substrate.
 PACKAGING: Bulk is standard.

ENVIRONMENTAL

TEMPERATURE RANGE: -55°C to $+125^\circ\text{C}$.
 THERMAL SHOCK: -55°C to $+125^\circ\text{C}$, 30 minutes each, MIL-STD-202, method 107D, TRS $\pm 2\%$ max., setting stability $\pm 1\%$ max.
 MOISTURE RESISTANCE: 40°C , 90 to 95% RH, 1,000 hours MIL-STD-202, method 106, TRS $\pm 3\%$ setting stability $\pm 1\%$ max.
 HUMIDITY: MIL-STD-202, method 103B, TRS $\pm 3\%$ max., setting stability $\pm 2\%$ max.
 SHOCK: 100G 5 msec., MIL-STD-202, method 213B, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
 VIBRATION: 10 to 2,000 Hz, 20G, MIL-STD-202, method 204, TRS $\pm 1\%$ max., setting stability $\pm 1\%$ max.
 SOLDERING HEAT: 3 sec. @ 350°C , TRS $\pm 1\%$ max.
 LOAD LIFE: 1,000 hours, MIL-STD-202, method 108A, condition D, TRS $\pm 3\%$ max., setting stability $\pm 3\%$ max.
 LOW TEMPERATURE EXPOSURE: 45 minutes @ -55°C , MIL-R-22097, 4.6.16, TRS $\pm 3\%$, setting stability $\pm 1\%$ max.
 HIGH TEMPERATURE EXPOSURE: 250 hours @ 125°C , MIL-R-22097, 4.6.16, TRS $\pm 3\%$ max., setting stability $\pm 1\%$ max.
 ROTATIONAL LIFE: 200 cycles without discontinuity, MIL-R-22097, TRS $\pm 3\%$ max.
 IMMERSION SEAL: 85°C V for 1 minute, MIL-R-22097, 4.6.21.