

Industrial 24mm Diameter 5 Watt, Wirewound Rotary Potentiometer

Features

- Dust-proof construction
- Precision linearity
- 5 watt power rating
- Superior resistance stability in temperature and environment change
- Tandem constructions available
- Bushing or twist tab mounting
- Available with pull-push and rotary power switches
- RoHS compliant



Electrical and Mechanical Specifications

Resistance Range

Linear : 1 ohm through 25K ohms
Audio : 20 ohms through 10K ohms

Resistance Tolerance

±20%, ±10%, ±5%

Power Rating

5 watts @ 25°C

Dielectric Strength

1,000 VAC for 1 minute

Maximum Operating Voltage

500 VDC

Insulation Resistance

100 Megohms minimum @ 250 VDC

Rotational Angle

Mechanical Angle: 300°±5°

Effective Angle:

Without switch: 280°

With switch: 240°

Rotational Torque

3/4 to 6 in. oz. (54 - 432 gf-cm)

Linearity (linear curve only)

Standard: 3% linearity

Special : 2% linearity

Mounting Information

Bushing Mount

Twisted Tab

Power Switch

Rotary Switch-SPST, DPST, SPDT

Pull-Push Switch-SPST (Pull-ON, Push-OFF)

Rotational Life

standard : 10,000 cycles

special : 50,000 , 100,000 cycles

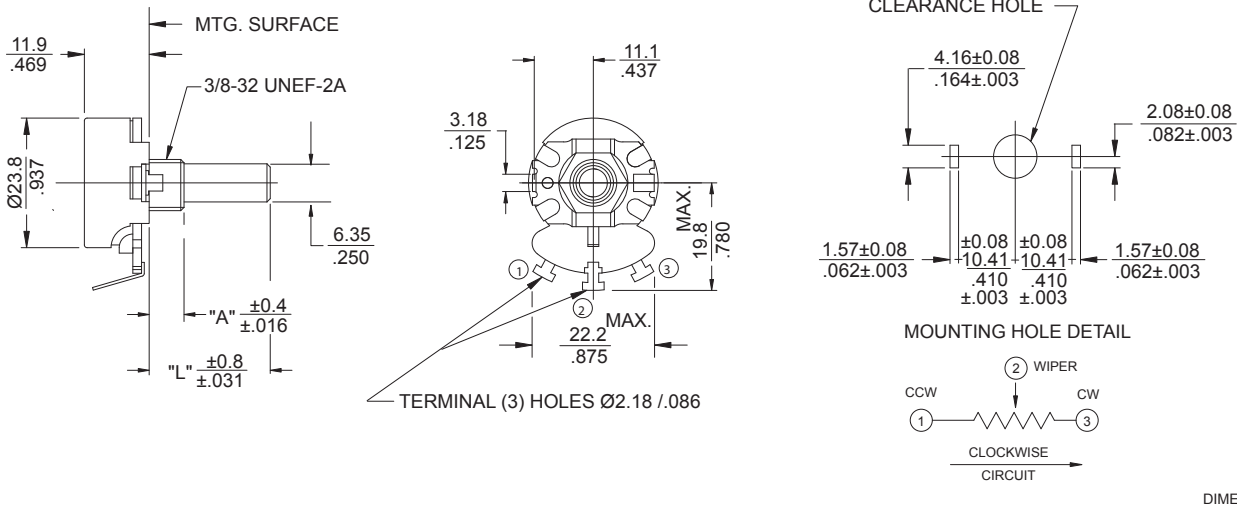
Solder Heat Resistance

Maximum 350° C for 3 sec

Operating Temperature

-30° C to +105° C

T026 Metal Shaft, Bushing Mounting, Type "T" Solder Lug Terminals



X026 / Y026 Metal Shaft, Bushing Mounting, Printed Circuit Type X/Y Terminals



U026 Metal Shaft, Bushing Mounting, Printed Circuit Type "U" Formed Terminals



V026 Metal Shaft, Bushing Mounting, Printed Circuit Type "V" Formed Terminals



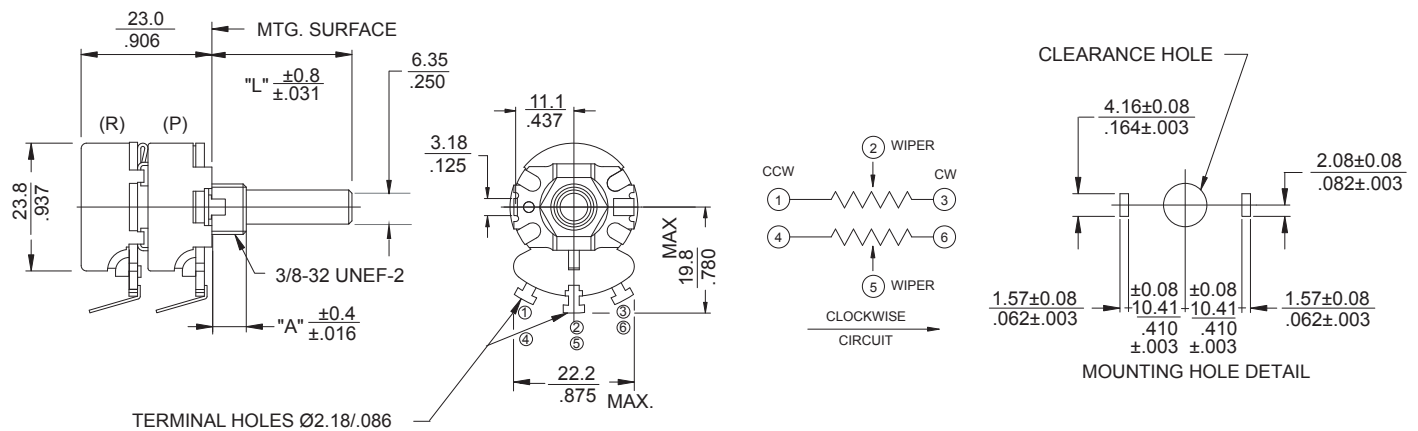
S026 Metal Shaft, Bushing Mounting, Faston Type "S" Formed Terminals



VPE026 Metal Shaft, Twist TAB Mounting, Type "V" Formed Terminals



T2-026 Dual-section, Metal Shaft, Bushing Mounting, Type "T" Solder Lug Terminals



* More multi-section models available, consult CTS for details

Ordering Information

| 026 | T | 2 | 20 | R | 103 | B | 1 | A | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|----------|------------|----------|----------|----------|----------|-----|----|-----|------|-----|----|-----|-----|-----|-----|--|--|--|---|----------|----------|----------|----------------|----------|--|--|--|----------|--------|-----|---------------|----------|--------|-----|--------------------------------|----------|--------|-----|---------------|----------|-----------|------|---------------|----------|--------|-------|-----------------------------------|
| TERMINAL STYLE T - SOLDER LUG X - PC .687"(17.5mm) Y - PC .867"(22.0mm) U - FORMED TO FRONT V - FORMED TO REAR S - FASTON | METAL MOUNTING STYLE "A" BUSHING LENGTH: 1/8" INCREMENTS EXAMPLES: 2 - .250"(6.35mm) 3 - .375"(9.53mm) 8 - 1.000"(25.4mm) 1 - TWIST TAB MOUNT A - .250"(6.35mm) DIECAST B - .375"(9.53mm) DIECAST | SHAFT TRIM R - ROUND F - FLATTED .375"X.156" (9.53mmX4.0mm) K - KNURLED EIA S148 24 TEETH S - SD SLOT .063" DEEP X.047" WIDE (1.6mmX1.2mm) | RESISTANCE CODE EXAMPLES <table border="1"> <thead> <tr> <th>CODE</th> <th>RESISTANCE</th> </tr> </thead> <tbody> <tr><td>5A0</td><td>5 OHMS</td></tr> <tr><td>501</td><td>500 OHMS</td></tr> <tr><td>102</td><td>1K</td></tr> <tr><td>252</td><td>2.5K</td></tr> <tr><td>502</td><td>5K</td></tr> <tr><td>103</td><td>10K</td></tr> <tr><td>253</td><td>25K</td></tr> </tbody> </table> | CODE | RESISTANCE | 5A0 | 5 OHMS | 501 | 500 OHMS | 102 | 1K | 252 | 2.5K | 502 | 5K | 103 | 10K | 253 | 25K | RESIST TOL A - $\pm 10\%$ B - $\pm 20\%$ D - $\pm 5\%$ | TAPER 1 - LINEAR 2 - 20%AUD 3 - 20%CCW AUD | SPECIALS 1 - LOCATING LUG LEFT SIDE 2 - LOCATING LUG RIGHT SIDE 3 - NO LOCATING LUG LOCATING 5 - LOCATING LUG BOTH SIDE | <table border="1"> <thead> <tr> <th>SWITCHES</th> <th>FUNCTION</th> <th>CTS TYPE</th> <th>CURRENT RATING</th> </tr> </thead> <tbody> <tr><td>A - NONE</td><td></td><td></td><td></td></tr> <tr><td>B - SPST</td><td>ROTARY</td><td>TGC</td><td>6AMP @ 125VAC</td></tr> <tr><td>C - DPST</td><td>ROTARY</td><td>027</td><td>3AMP @ 125VAC 1AMP @ 250VAC</td></tr> <tr><td>D - SPDT</td><td>ROTARY</td><td>028</td><td>3AMP @ 125VAC</td></tr> <tr><td>E - SPST</td><td>PULL-PUSH</td><td>FR-K</td><td>3AMP @ 125VAC</td></tr> <tr><td>F - SPST</td><td>ROTARY</td><td>FR-GC</td><td>3AMP @ 125VAC 1AMP @ 250VAC/DC</td></tr> </tbody> </table> <p>* Refer to series 450 data sheet for power switch detail</p> | SWITCHES | FUNCTION | CTS TYPE | CURRENT RATING | A - NONE | | | | B - SPST | ROTARY | TGC | 6AMP @ 125VAC | C - DPST | ROTARY | 027 | 3AMP @ 125VAC 1AMP @ 250VAC | D - SPDT | ROTARY | 028 | 3AMP @ 125VAC | E - SPST | PULL-PUSH | FR-K | 3AMP @ 125VAC | F - SPST | ROTARY | FR-GC | 3AMP @ 125VAC 1AMP @ 250VAC/DC |
| CODE | RESISTANCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5A0 | 5 OHMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 501 | 500 OHMS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 102 | 1K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 252 | 2.5K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 502 | 5K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103 | 10K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 253 | 25K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SWITCHES | FUNCTION | CTS TYPE | CURRENT RATING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A - NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B - SPST | ROTARY | TGC | 6AMP @ 125VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C - DPST | ROTARY | 027 | 3AMP @ 125VAC 1AMP @ 250VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D - SPDT | ROTARY | 028 | 3AMP @ 125VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E - SPST | PULL-PUSH | FR-K | 3AMP @ 125VAC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F - SPST | ROTARY | FR-GC | 3AMP @ 125VAC 1AMP @ 250VAC/DC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| METAL SHAFT LENGTH "L" FROM MOUNTING SURFACE 1/32" INCREMENTS EXAMPLES: 20 - .625"(6.35mm) 24 - .750"(19.5mm) 28 - .875"(22.2mm) 32 - 1.000"(25.4mm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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