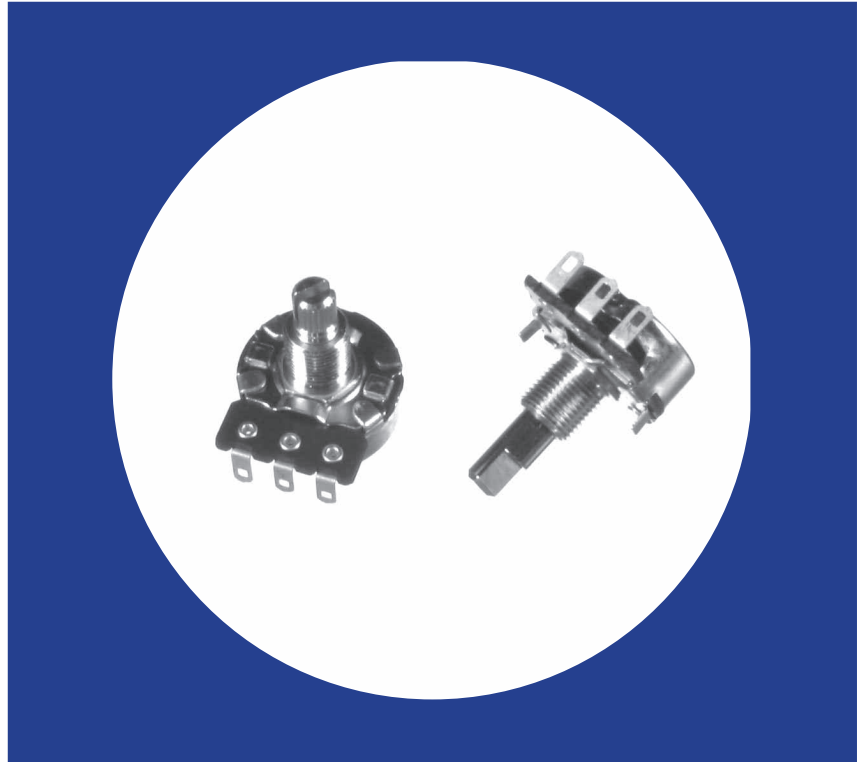


Commercial 24mm Diameter Composition Element Long Life Variable Resistor

Features

- Low noise
- Long life 1 million cycles
- Joystick applications
- Wide resistance range
- RoHS compliant



Electrical and Mechanical Specifications

Resistance Range

Linear taper: 10K ohms through 1 megohms
Consult CTS for audio taper

Resistance Tolerance

Standard: $\pm 30\%$
Special: $\pm 20\%$, 10%

Power Rating

Under 100K ohms = 1/3 watt @ 55°C
Above 100K ohms = 1/4 watt @ 55°C
Joystick applications = 1/6 watt @ 55°C

Insulation Resistance

100 megohms minimum @ 100 VDC

Operating Temperature

-10°C to +85°C

Total Rotational Angle

Mechanical angle: $300^\circ \pm 5^\circ$
Effective angle: 30° to 290°

Linearity

Standard: 5%
Special: Consult CTS for better linearity

Rotational Torque

14~144 gf-cm (0.2~2.0 in-oz)

Rotational Life

1,000,000 cycles

Shaft Information

Available for round, flattened, knurled, or slot metal shaft
Diameter: 6.35mm (.250")
Consult CTS for custom-made metal and economic plastic shaft

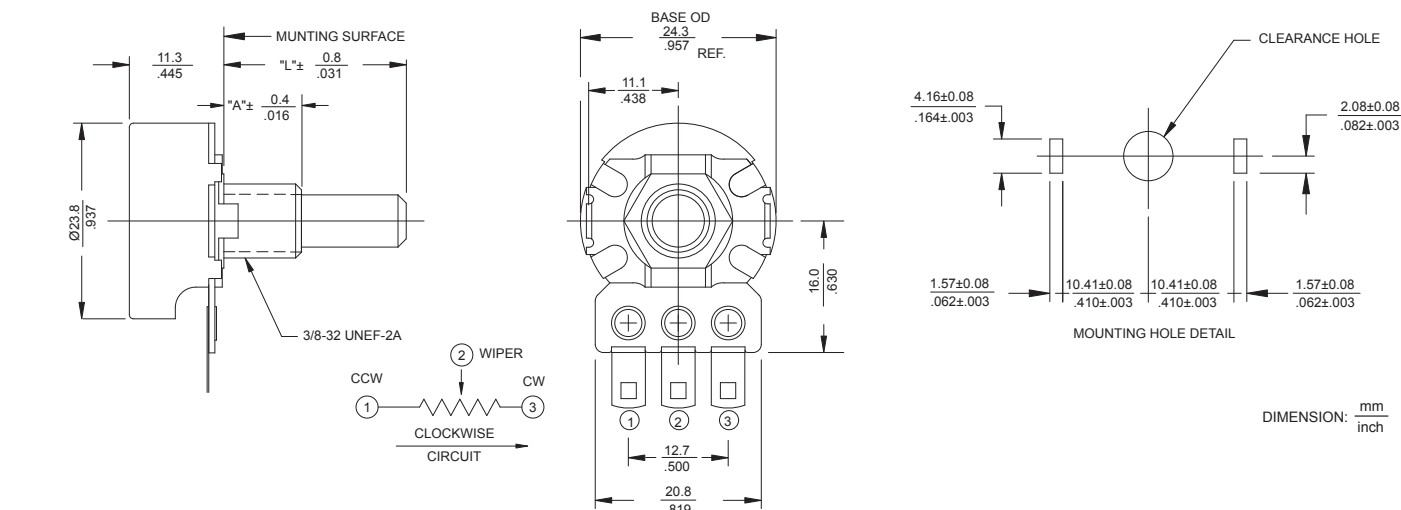
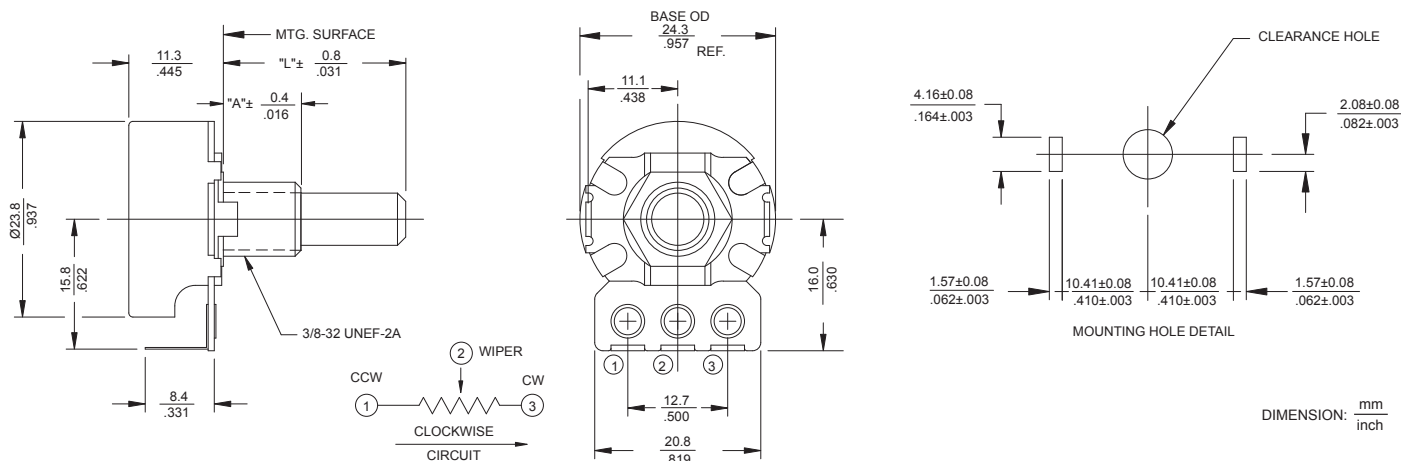
Mounting Information

Bushing Mount

Diameter: EIA standard 3/8-32 UNEF-2A thread
Standard length: 9.53mm (.375") or 6.35mm (.250")
Consult CTS for custom-made metal and economic plastic bushing

Locating Lugs

Standard: Two lugs
Available: No lug, or one lug (left or right) with terminals facing inward



Ordering Information

295 **T** **2** **20** **R** **103** **B** **1** **1** **1**

TERMINAL STYLE
T- SOLDER LUG
S- FASTON

MOUNTING STYLE "A"
BUSHING LENGTH:
1/32" INCREMENTS
EXAMPLES:
2- .250" (6.35mm)
3- .375" (9.5mm)
8- 1.000" (25.4mm)
1- TWIST TAB MOUNT

SHAFT LENGTH "L"
FROM MOUNTING SURFACE
1/32" INCREMENTS
EXAMPLES:
20- .625" (15.9 mm)
24- .750" (19.11mm)
28- .875" (22.2 mm)
32- 1.000" (25.4 mm)

METAL SHAFT TRIM
R- ROUNDED
F- FLATTED .375" X .156"
(9.53 X 4.0mm)
K- KNURLED EIA S148 24 TEETH
S- SD SLOT .047" WIDE X .063" DEEP
(1.2mm X 1.6mm)

RESISTANCE CODE EXAMPLES
CODE RESISTANCE
103 10 K
253 25 K
503 50 K
104 100 K
504 500 K
105 1Meg

TAPER
1- LINEAR
*2- 10% AUD
*3- 10% CCW AUD
* Available minimum
270° effective angle.

RESIST TOL
A- ± 10%
B- ± 20%
C- ± 30%

SPECIALS
1- TWO LUGS
2- LOCATING LUG RIGHT SIDE
3- NO LOCATING LUG
4- LOCATING LUG LEFT SIDE

EFFECTIVE ELECTRIC ANGLE
1- 40°
2- 50°
3- 60°
4- 270°