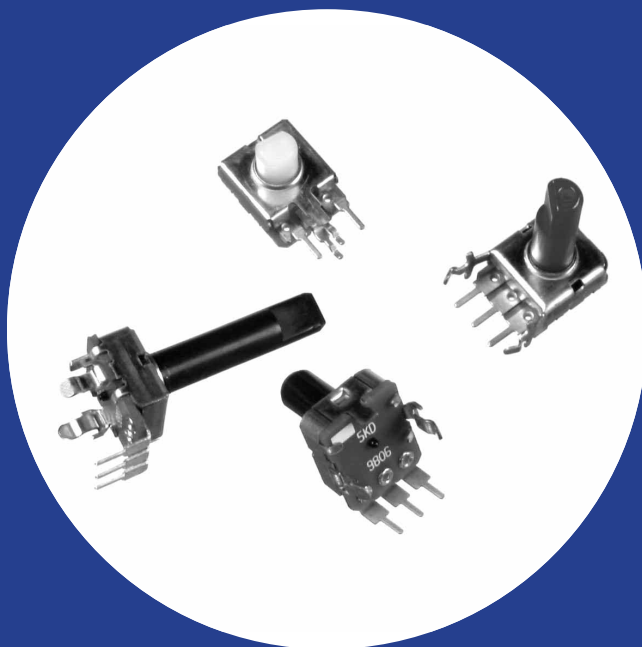


Commercial 12mm Diameter Composition Variable Resistors

- Miniature 12mm size
- Low cost
- P.C. board mounting
- 500 ohms through 1 megohms
- Detent available



Electrical and Mechanical Specifications

Resistance Range

Standard: 500 ohms through 1 megohms.
Special: For non-standard resistance values,
please contact CTS.

Resistance Tolerance

Standard: $\pm 20\%$
Special: Tighter tolerances available in most
resistance values.

Power Rating, Watts

0.15 watts @ 50°C derated to no load @ 85°C
for linear curve.
0.1 watts @ 50°C derated to no load @ 85°C
for regular non-linear curve.

Voltage Rating

Across end terminals:
Standard 250 VDC; Special: 350 VDC load
not to exceed wattage ratings at given ambient
temperature.

Angle of Rotation

Total Rotation: $300^\circ \pm 5^\circ$
Effective Electrical Rotation: 280° (approximate)

Rotational Torque

20 – 216 gcm

Stop Strength

5" lbs (5.76 kg-cm) minimum stop strength.

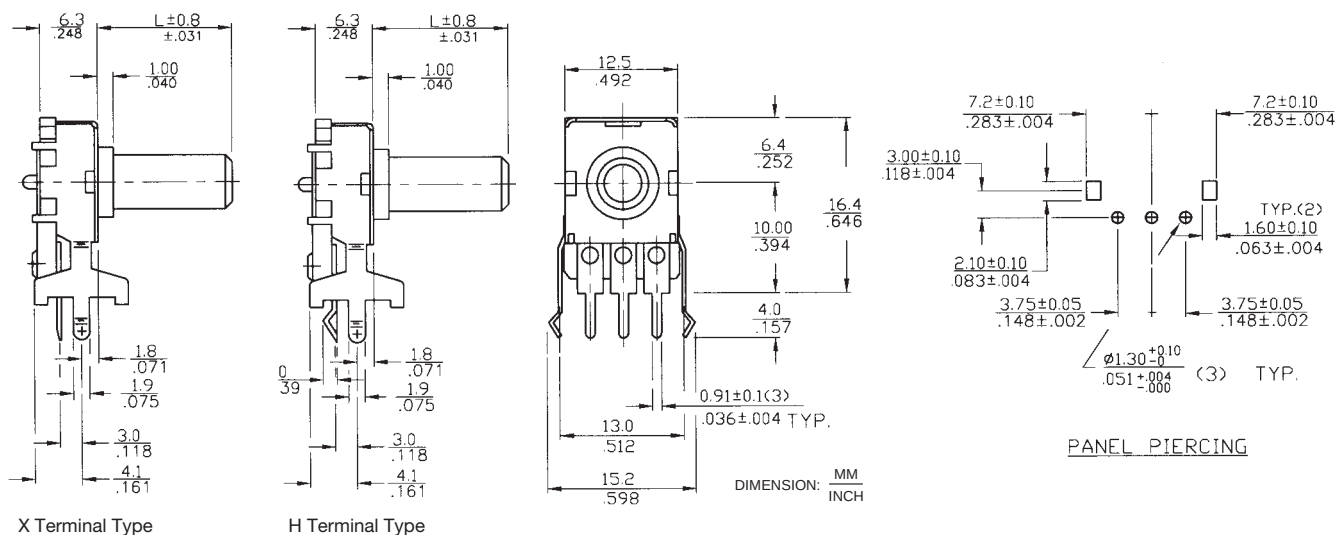
Mounting Information

P.C. board mounting
Type "X": Control shaft parallel to P.C. board.
Type "U": Control shaft vertical to P.C. board.

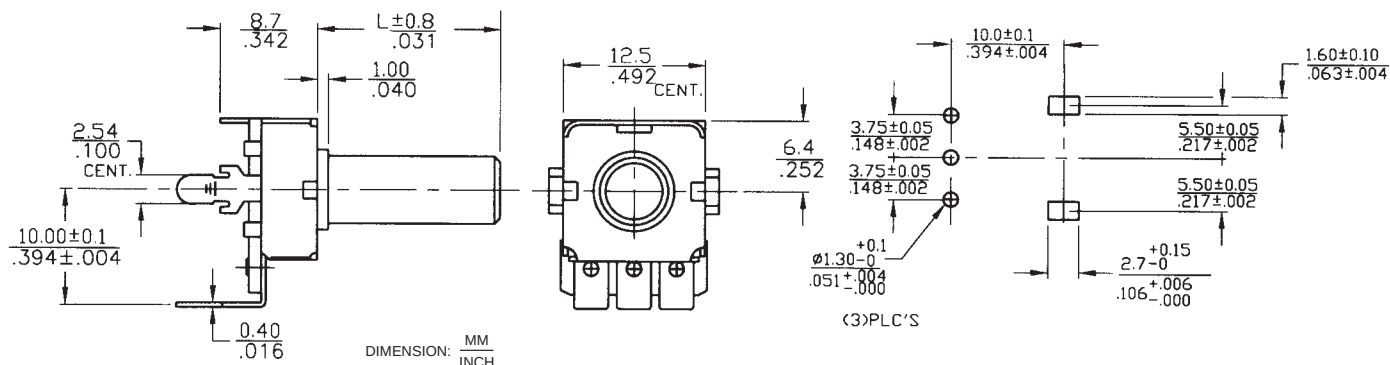
Detent

50% detent available.

XM 296RE Molded Shaft, Control Shaft Parallel to P.C. Board



UM 296RE Molded Shaft, Control Shaft Vertical to P.C. Board



Ordering Information

296

X

B

TERMINAL STYLE

X – PC
U – PC FORMED TO REAR
H – HOOK

252

B

2

N

RESISTANCE CODE EXAMPLES

CODE

RESISTANCE

501500 OHMS

1021K

2522.5K

5025K

10310K

25325K

50350K

104100K

RESIST TOL

A – ±10%
B – ±20%
C – ±30%

DETENT

N – NO DETENT
C – CENTER DETENT

TAPER

1 – LINEAR
2 – 10% AUD
3 – 10% CCW AUD

SHAFTS AVAILABLE

(ALL SHAFTS .236" [6MM] DIAMETER/EXCEPT E - DIAMETER IS .240" [6.1MM])

LENGTH BEYOND

INCH

MM

COVER

TRIM

COVER

TRIM

A – .640" FLATTED .472" x .177"

A – 16.3MM FLATTED 12x4.5MM

B – .840" FLATTED .472" x .177"

B – 21.3MM FLATTED 12x4.5MM

C – 1.031" FLATTED .472" x .177"

C – 26.2MM FLATTED 12x4.5MM

D – .540" KNURLED .287" x .236"

D – 13.7MM KNURLED 7.3MMx18T

E – .265" FLATTED .218" x .204"

E – 6.7MM FLATTED 5.5 x 5.2MM

Order From:

CTS CORPORATION, ELECTROCOMPONENTS / 1601 Mishawaka Street / Elkhart, Indiana 46514
North America Toll Free (888) 287-4690 / (219) 296-6700 / FAX: (219) 293-1240 <http://www.ctscorp.com>

CTS COMPONENTS TAIWAN, LTD. / 7, Central 6th Road (Chung Liu Road) / P.O. Box 26-20
Kaohsiung Export Processing Zone / Kaohsiung, Taiwan, Rep. of China
(07) 8216145 / FAX: (07) 8417642.8110040