

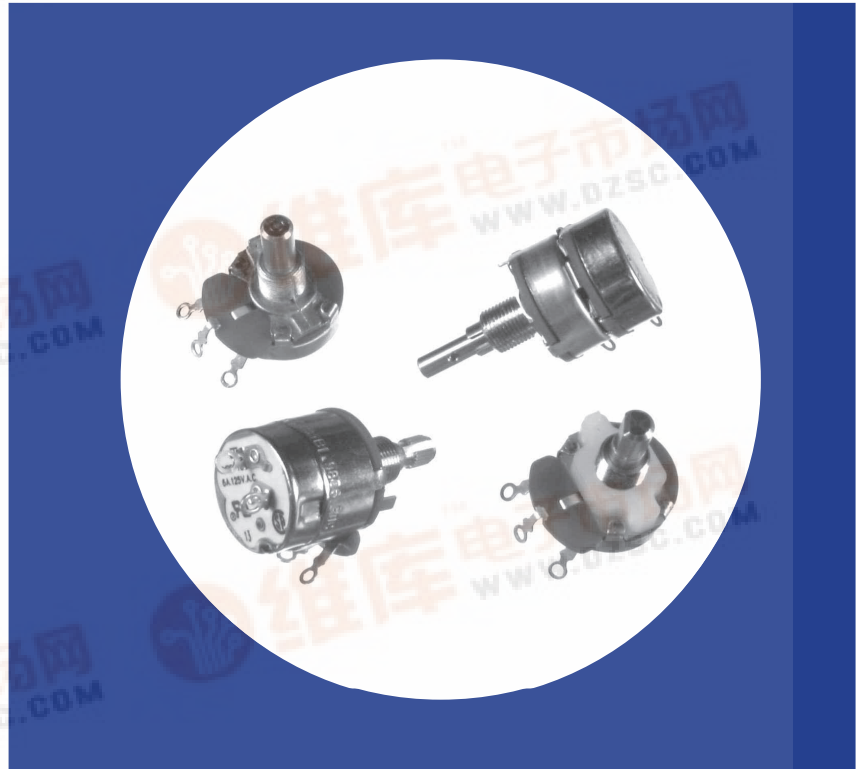


Series 026 Technical Data

Industrial 15/16" (24mm) Diameter, 5-Watt, Wirewound Variable Resistors

Features

- Dust-proof construction
- Water splash proof construction available
- 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
- Excellent linearity performance
- RoHS compliant



Electrical and Mechanical Specifications

Resistance Range

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

Resistance Tolerance

Standard : $\pm 10\%$
Special : Tighter tolerance available in most resistance values

Power Rating

5 watts @25°C, 4 watts @ 55°C, derated to no load at 105°C, linear taper
(Derating required on two section counts.)

Voltage Rating

Bushing to Terminals:
High pot test, one minute -- 1,000 VAC
Operating maximum -- 500 VDC

Across End Terminals:
350 VDC maximum, load not to exceed wattage rating.

Resistance Tapers

Standard: Linear or 20% audio
Special: Consult CTS

Linearity

Standard: 3% linearity
Special: Consult CTS

Power Switches

Rotary Pole-SPST, DPST & SPDT
Pull-Push Pole-SPST (Pull-ON, Push-OFF)

Rotational Angle

Mechanical Rotation:

Without switch: $300^\circ \pm 5^\circ$
With switch: $300^\circ \pm 5^\circ$

Effective Rotation:

Without switch: $280^\circ \pm 5^\circ$
With switch: $265^\circ \pm 5^\circ$

Rotational Torque:

Standard: 3/4 to 6 in. oz (54 - 432 gf-cm)
Special: higher torque models available, consult CTS

Operating Temperature

-30°C to +85°C

(continued on next page)



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

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: Left lug with terminals facing inward

Available: No lug, right lug or two lugs with terminals facing inward

Standard: .438" (11.1mm)
Special: .531" (13.5mm) available

Terminals accepting push-on connectors available.
Straight or concentric tandem constructions.
Can be combined with 450 series, 15/16" (24mm) diameter,
to make any combination of straight or concentric tandem
constructions with or without switch.
Long life constructions available.

This construction provides an extended life of 50K and 100K cycles. Consult CTS for details.

MTG. SURFACE

3/8-32 UNEF-2A

Ø23.8
.937

"A" ± 0.4
 ± 0.016

"L" ± 0.8
 ± 0.031

11.9
.469

3.18
.125

11.1
.437

MAX.
19.8
.780

1 2 3

22.2
.875

MAX.

TERMINAL (3) HOLES Ø.218 / .086

CLEARANCE HOLE

4.16 ± 0.08
.164 ± 0.003

2.08 ± 0.08
.082 ± 0.003

1.57 ± 0.08
.062 ± 0.003

± 0.08
10.41
.410

± 0.08
10.41
.410

1.57 ± 0.08
.062 ± 0.003

± 0.003 ± 0.003

MOUNTING HOLE DETAIL

2 WIPER

CCW CW

1 3

CLOCKWISE
CIRCUIT

Technical drawing of a 3/8-32NEF-2A connector. The drawing includes three views: a side view, a front view, and a mounting hole detail.

Side View Dimensions:

- Overall length: 23.8 ± 0.937
- Distance from MTG. SURFACE to center: $"A" \pm 0.4 \pm 0.016$
- Thread specification: 3/8-32NEF-2A
- Distance from center to end: $"L" \pm 0.8 \pm 0.031$

Front View Dimensions:

- Overall width: 11.1 ± 0.437
- Distance from center to side hole: 3.18 ± 0.125
- Distance from center to bottom hole: 4.0 ± 0.156
- Distance from center to bottom hole (TYP.): 7.92 ± 0.312
- Distance from center to bottom hole (TYP.): 4.9 ± 0.191
- Distance from center to bottom hole (TYP.): 17.5 ± 0.687
- Distance from center to bottom hole (TYP.): 22.0 ± 0.867

Mounting Hole Detail Dimensions:

- Overall width: $2.03 \pm 0.05 \pm 0.080 \pm 0.002$
- Distance from MTG. SURFACE to center: $2.03 \pm 0.05 \pm 0.080 \pm 0.002$
- Distance from center to side hole: 3.68 ± 0.145
- Distance from center to side hole (TYP.): 7.92 ± 0.312

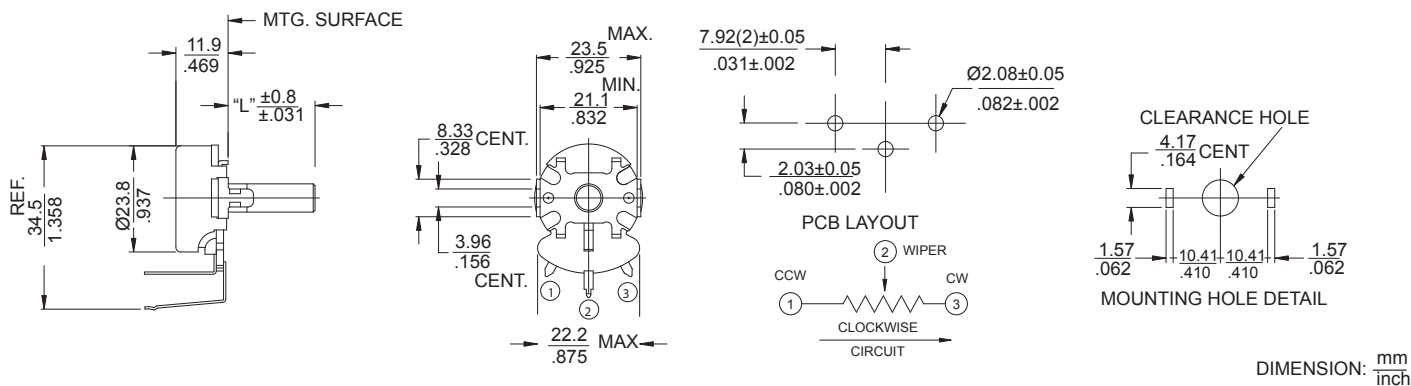
Mounting Hole Detail Notes:

- Ø2.08±0.05 .082±.002 (6) HLS.
- MTG. SURFACE
- REF.
- TYP.
- CLOCKWISE
- CIRCUIT

Dimensioning:

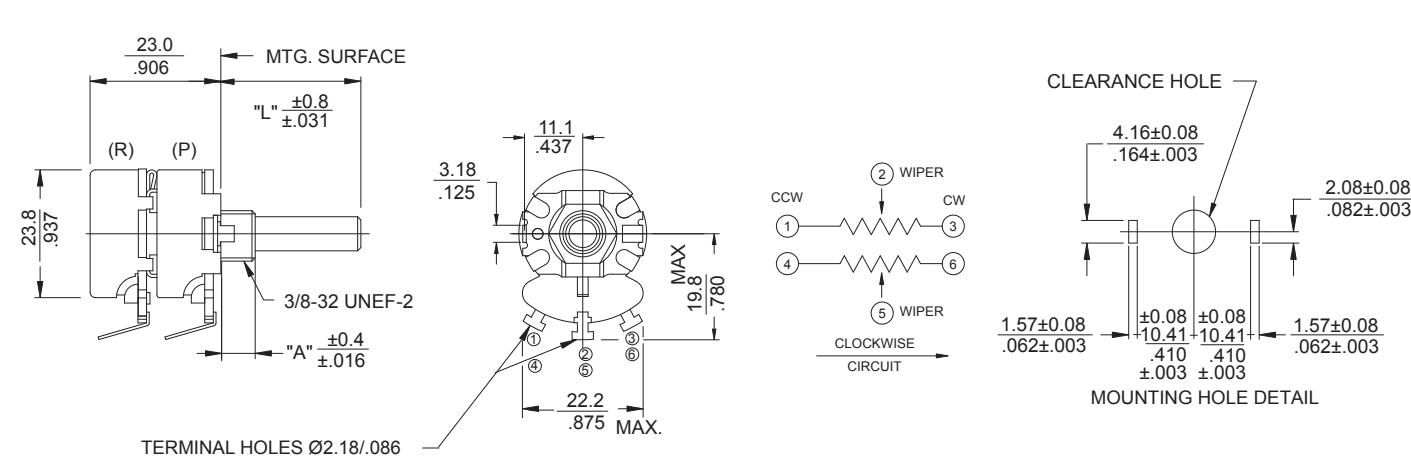
- DIMENSION: mm / inch

VPE026 Metal Shaft, Twist TAB Mounting, Type “V” Formed Terminals



* Consult CTS for details

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



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

Ordering Information

