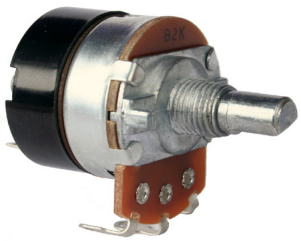


Features

- Carbon element
- Wide range of resistance tapers
- Plain ,flatted or knurled shaft options
- Switch options

R24 Series-24mm Rotary Potentiometer

Electrical Characteristics

Taper..... Linear, audio
Resistance Range
.....1 K to 2M ohms
(Only for 10K lifecycles)
.....10 K to 2M ohms
(Only for 200K lifecycles)
Standard Resistance Tolerance.....±20 %
Residual Resistance..... 1 % max.

Environmental Characteristics

Operating Temperature...-10 °C to +75 °C
Power Rating (70°C).....0.5 watt
Maximum Operating Voltage
..... 200 V
Sliding Noise ..... 68 mV max.

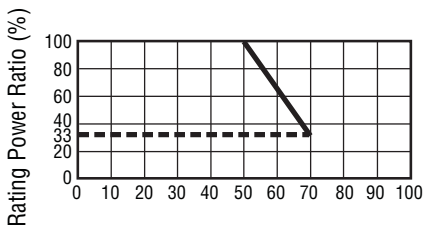
Mechanical Characteristics

Mechanical Angle.....300 ° ±5 °
Rotational Torque ..... 10 to 150 gf-cm
Switch operating Force
.....200~800gf.cm
Stop Strength .....4 kg-cm min.
Rotational Life
.....10,000 cycles(Standard)
.....200,000 cycles(Only for "without switch" model)
Soldering Condition
..... 260 °C max. within 3 seconds
Hardware.....One flat washer and mounting nut supplied per potentiometer with bushing

Materials

Housing .....Cold rolled strip
Carbon plate
.....Paper substrate plate
Driving plate.....POM
Reed.....Zinc cupronickel
Terminal.....Cold rolled strip
Bushing.....Zinc alloy/POM
Shaft.....Zin alloy/Aluminum/POM
Switch base.....H161 PF
Collar.....H62 brass
Blade of knife switch
.....H62 brass
Switch strut.....H59 copper wire
Torsional spring.....Spring wire
Rivet.....Aluminum
Driving head.....PA 66
Scaleboard
.....Paper substrate plate
Baseplate
.....Paper substrate plate

Derating Curve

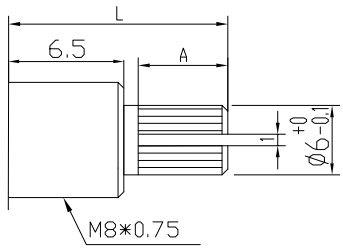


Product Dimensions

Shaft Styles

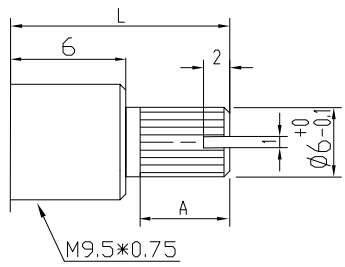
K1 Type

L	15	20	25
A	7	11	17



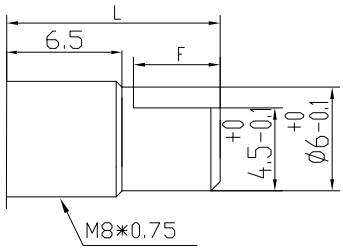
K2 Type

L	15	20	25
A	7.5	12.5	17



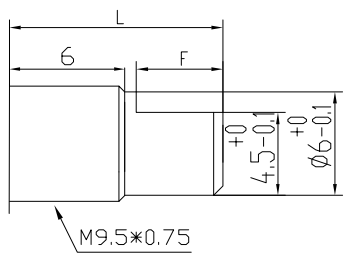
F1 Type

L	15	20	25
F	7	12	12



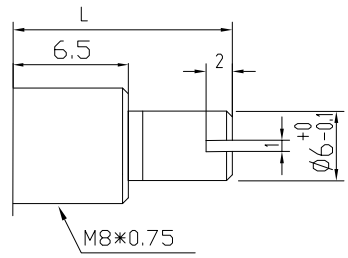
F2 Type

L	15	20	25
F	7	12	12



P Type

L	15	20	25



General Tolerance

Dimension:

X＜10 ± 0.3mm

10 ≤ X ＜30 ± 0.5mm

30 ≤ X ≤ 100 ± 1mm

Angle: ± 5°

Additional Features

- Linear, audio and reverse audio taper options
- RoHS compliant*

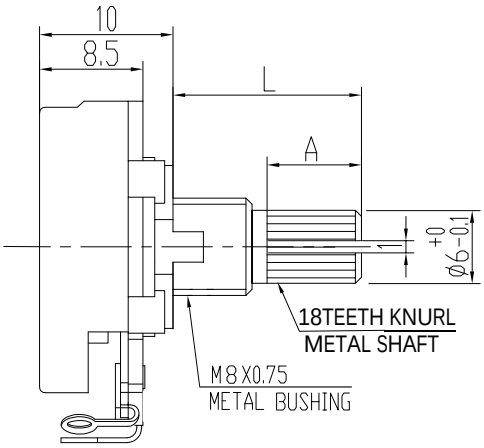
Applications

- Audio/TV sets
- Amplifiers/mixers/drum machines/ synthesizers
- PCs/monitors
- Appliances

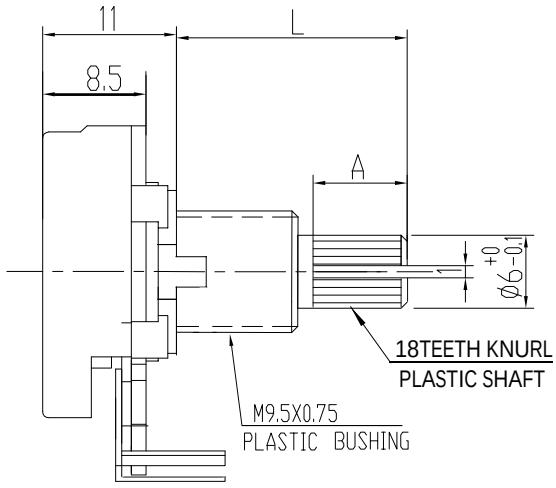
R24 Series-24mm Rotary Potentiometer

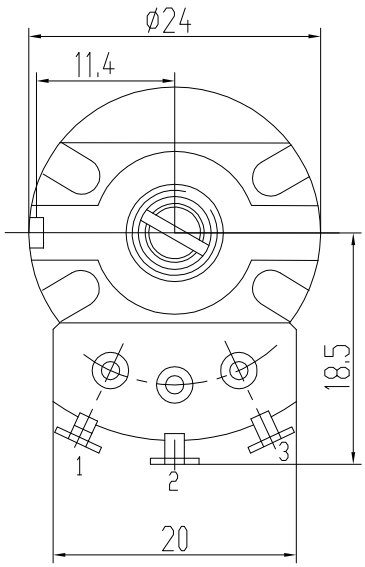
Product Dimensions

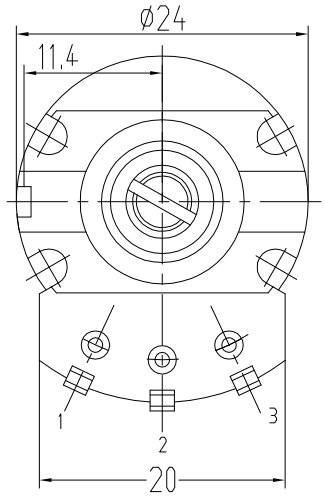
RD241-E

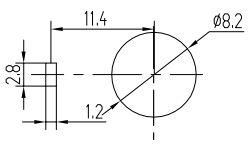


RD241-D

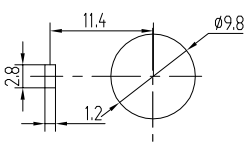




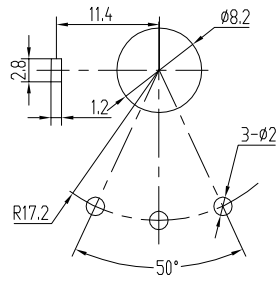




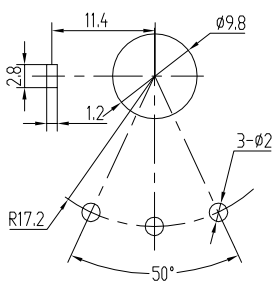
MOUNTING DIAGRAM OF METAL BUSHING



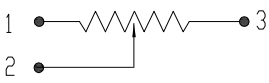
MOUNTING DIAGRAM OF PLASTIC BUSHING



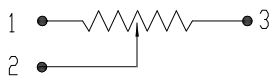
P.C.B.MOUNTING HOLE DETAIL OF METAL BUSHING



P.C.B.MOUNTING HOLE DETAIL OF PLASTIC BUSHING



CIRCUIT DIAGRAM

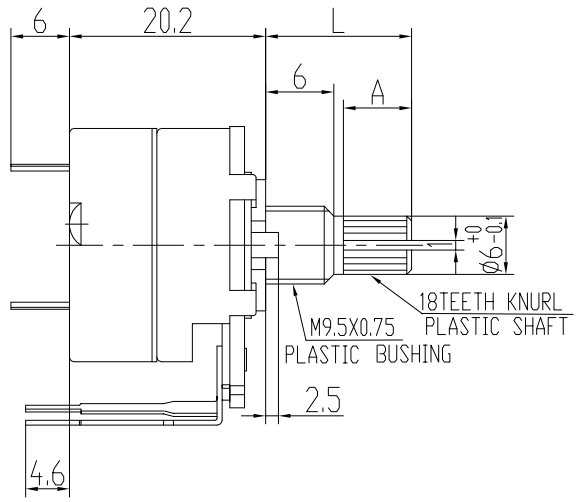


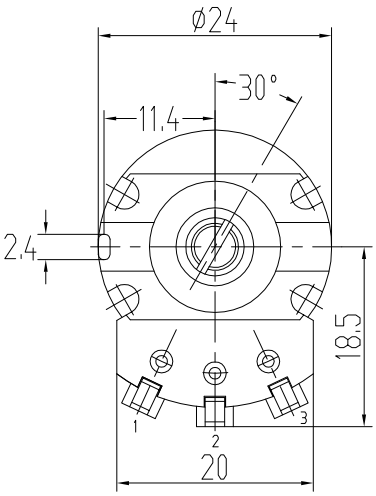
CIRCUIT DIAGRAM

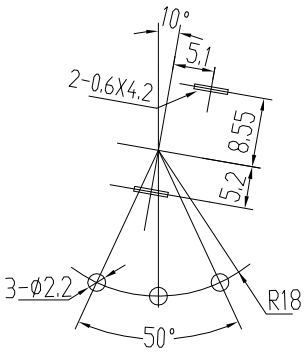
R24 Series-24mm Rotary Potentiometer

Product Dimensions

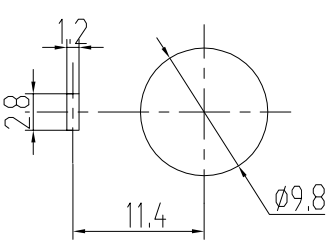
RD242-P



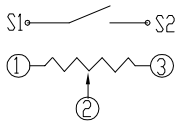




P.C.B.MOUNTING HOLE DETAIL

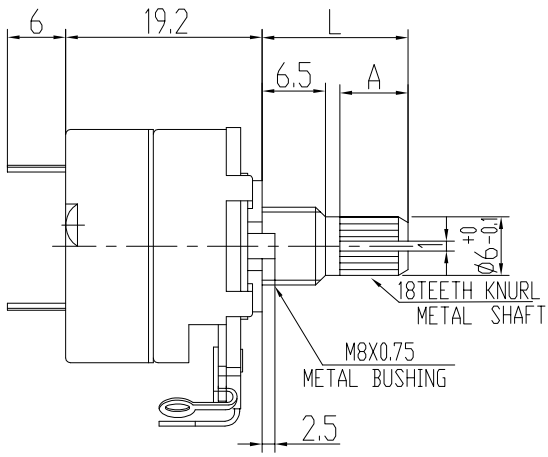


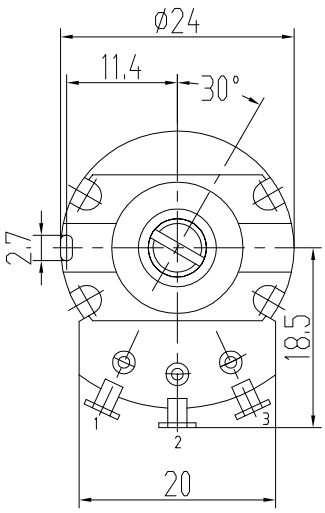
MOUNTING DIAGRAM

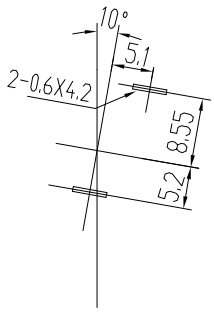


CIRCUIT DIAGRAM

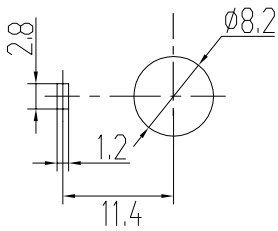
RD242-E



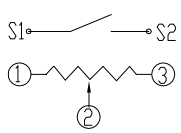




BOTTOM MOUNTING DIAGRAM



MOUNTING DIAGRAM

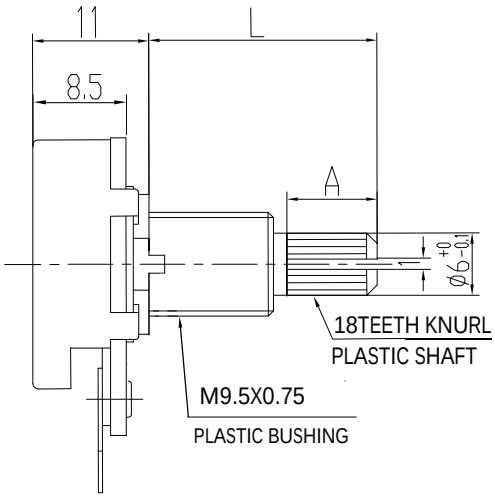


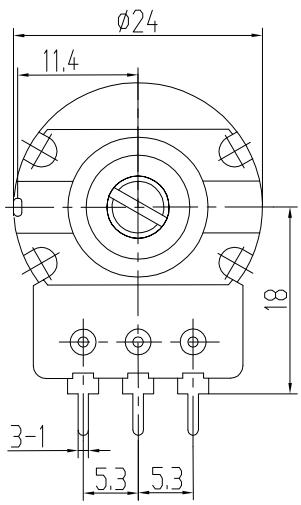
CIRCUIT DIAGRAM

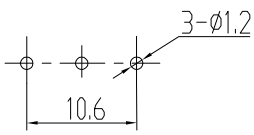
R24 Series-24mm Rotary Potentiometer

Product Dimensions

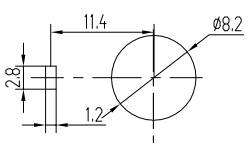
RB241-K



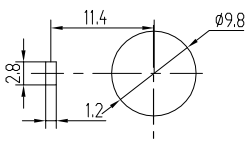




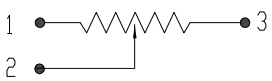
P.C.B.MOUNTING HOLE DETAIL



MOUNTING DIAGRAM OF METAL BUSHING



MOUNTING DIAGRAM OF PLASTIC BUSHING



CIRCUIT DIAGRAM

How To Order

RB24 1 - K 25 P - 103 A

Model
- RB24 = Square shaped carbon plate
- RD24 = Arc shaped carbon plate

Switch
- 1 = Without switch
- 2 =With switch

Terminal Configuration (Pin Layout) (see individual drawings)
- K = PC Pins vertical/ Down Facing
- E = Solder Lugs Rear Facing
- P = PC Pins Rear Facing
- D = PC Pins Front Facing

Standard Shaft Length
- 15 = 15 mm
- 20 = 20 mm
- 25 = 25 mm

Shaft Style
- F1= Metal Flatted Shaft (Only for Metal bushing)
- F2 = Plastic Flatted Shaft (Only for Plastic bushing)
- K1= Metal Knurled Type Shaft 18 Toothed Serration Type (Only for Metal bushing)
- K2=Plastic Knurled Type Shaft 18 Toothed Serration Type (Only for Plastic bushing)
- P = Metal Plain Shaft (Only for Metal bushing)

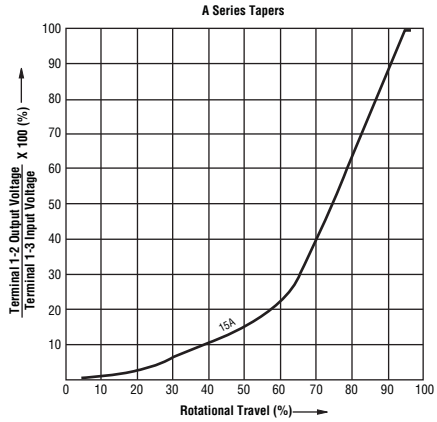
Resistance Code (See Table)

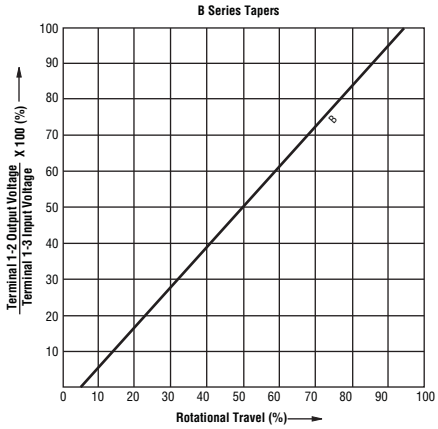
Resistance Taper
- A = Reverse log
- B = Linear
- C = Log

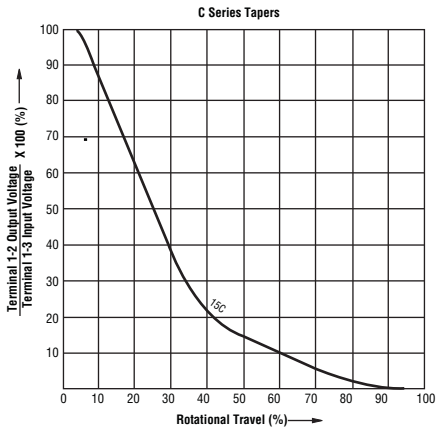
Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105
2,000,000	205

Tapers

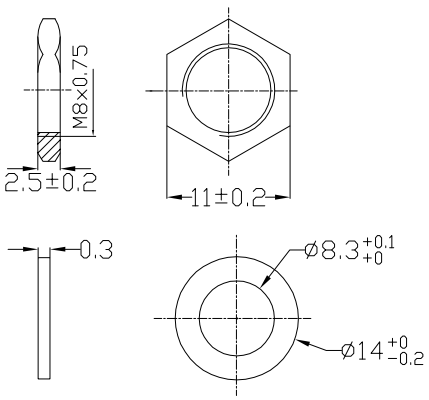






Nuts & Washers

Metal Bushing



Plastic Bushing