Cooka (Zhongshan) Technology Co., Ltd.

- 16mm diameter
- PCB Carbon element
- 500,000 cycles life
- ±3% precision linearity
- Water resistant(IP65,IP67)
- Ecnomic Model



RVR16 – 16mm Potentiometer Specification

Electrical

Standard Resistance Range . . . . . .1kΩ~100kΩ

Resistance Tolerance . . . . . 20% standard

End Resistance . . . . . 30Ω max.

Resistance Taper . . . . . linear

Linearity . . . . . ±3%

Noise (C.R.V.) . . . . . .300 mV

Power Rating . . . . . 0.25 watt at 40℃, 0 watt at 70℃

Maximum Input Voltage . . . . . 50VDC Max.

Insulation Resistance . . . . . 100MΩ minimum at 1,500VDC

Dielectric Strength . . . . . 1,000VAC, 1 minute

Mechanical

Mechanical Angle . . . . . .300°, 320°

Operation Torque. . . . . .500 gf•cm Max.

Stop Strength . . . . . .9 kgf•cm Min.

Shaft Strength (push) . . . . . .12.75 kgf Min.

Shaft Strength (tensile) . . . . . .12.75 kgf Min.

Mounting Nut Torque . . . . . .10 kgf•cm Min.

IP Rating IP65

Soldering Condition

Manual Soldering . 350 °C ± 10 °C for 3.5 ± 0.5 sec.

Environmental

Working Temperature . . . . . -20℃ to 70℃

Storage Temperature . . . . . -30℃ to 85℃

Durability Test

Temperature Characteristics Test . . . . . 85℃, 5 hours

ΔT/R ≤±10%

Temperature Cycle Test . . . . . -30℃, 85℃,30 minutes each, 5 cycles

ΔT/R ≤±10%

Load Life Test. . . . . 40℃, 0.25 watt, 1,000 hours

ΔT/R ≤±10%

Moisture and Load Life Test . . 40℃, 90-95%RH,0.25 watt, 500 hours

ΔT/R≤±10%

Vibration Test . . . . . 10-55Hz, 1.5mm amplitude, 3 directions

ΔT/R ≤±5%

Soldering Heat Resistance Test . . . . . 350℃±5℃, 3 seconds

ΔT/R≤±2%

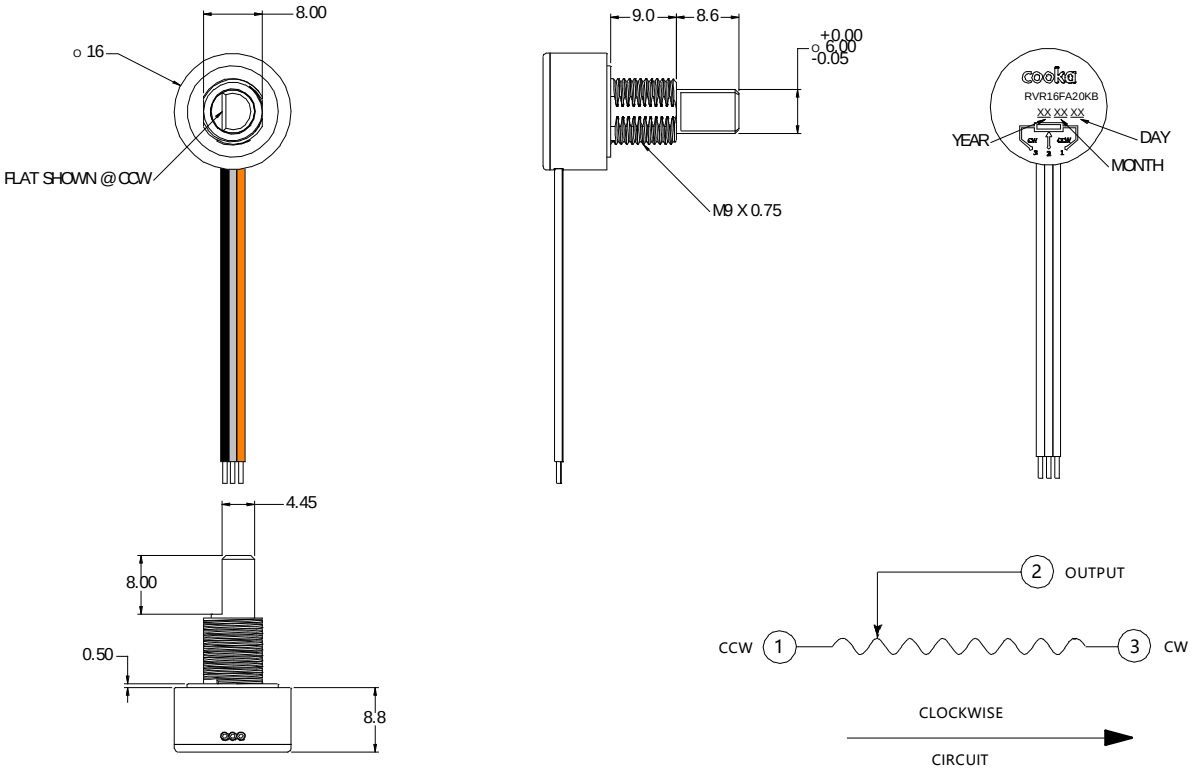
Rotational Life Test. . . . . 500,000 cycles without load

ΔT/R≤±10%

ΔT/R = Total Resistance Change

RVR16 Series Product Dimension

Unit: mm



RVR16 Series Part Numbering System

RVR16	A	1K	B	A	A
Series Code	Shaft&FMS Model Code FA (Standard)	Resistance Code(Ω)	Resistance Tolerance Code A = ±10% B = ±20%	Angle Code Mech. / Effe. Blank = 320° / 316° A = 300° / 280° B = 360° / 340°	Linearity Code Blank = ±3% A = ±2%

FA: Standard

SA: FMS 19.6mm, Slot 1.6mm(Depth)*1.0mm(Width)

SB: FMS 22.6mm, Slot 1.6mm(Depth)*1.0mm(Width)

RBA： ROUND, BRASS Bushing, FMS 20mm, Bushing 10mm;