

Resistors & Potentiometers

Carbon Potentiometers

Detailed product specifications are available on: us.100y.com.tw



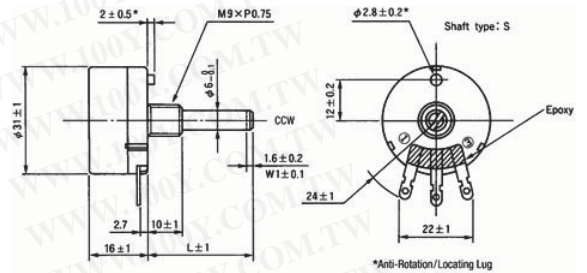
Features

- 30mm diameter, single-turn industrial panel controls
- Carbon film element
- Linear or audio tapers
- Single, tandem and triple units, single shaft; dual unit, dual shaft
- SPST or SPDT switch with 1A or 3A rating
- Shaft lock models

- Metal shaft and bushing
- Panel mount only
- Right angle ear-lug terminals
- 6mm diameter shafts in slot, flat or round end styles
- Standard 15mm or 20mm shaft length

Specifications

Electrical													
Standard Resistance Range	B = 100Ω to 2MΩ, A, C = 1kΩ to 2MΩ												
Resistance Tolerance	±10% standard												
End Resistance	3Ω max.												
Resistance Taper	B = linear; A = CW audio (logarithm); C = CCW audio (logarithm)												
Peak Noise (C.R.V.)	3% or 3Ω, whichever is greater												
Power Rating	Ratings below at +40°C, 0 watt at +85°C												
Taper	<table border="1"> <thead> <tr> <th>R ≤ 10kΩ</th> <th>10kΩ < R ≤ 50kΩ</th> <th>50kΩ < R ≤ 300kΩ</th> <th>R > 300kΩ</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>1.0W</td> <td>0.8W</td> <td>0.4W</td> </tr> <tr> <td>A, C</td> <td>0.8W</td> <td>0.6W</td> <td>0.2W</td> </tr> </tbody> </table>	R ≤ 10kΩ	10kΩ < R ≤ 50kΩ	50kΩ < R ≤ 300kΩ	R > 300kΩ	B	1.0W	0.8W	0.4W	A, C	0.8W	0.6W	0.2W
R ≤ 10kΩ	10kΩ < R ≤ 50kΩ	50kΩ < R ≤ 300kΩ	R > 300kΩ										
B	1.0W	0.8W	0.4W										
A, C	0.8W	0.6W	0.2W										
Maximum Input Voltage	B = 500VDC; A, C = 350VDC or power rating, whichever is smaller												
Insulation Resistance	100MΩ minimum at 1,000VDC												
Dielectric Strength	1,000VAC, 1 minute												
Adjustment Travel	280° ± 10°												



Environmental	
Temperature Range	-10°C to +85°C
Temperature Characteristics	+85°C, 30 minutes without load R ≤ 10kΩ → ΔT/R ≤ ±6% 10kΩ < R < 1MΩ → ΔT/R ≤ ±10% R ≥ 1MΩ → ΔT/R ≤ ±15%
Load Life	±40°C, 1,000 hours with rated load ΔT/R ≤ ±10%
Moisture and Load Life	+40°C, 90-95%RH, 500 hours with rated load R < 100kΩ → ΔT/R ≤ -10% ~ +15% R ≥ 100kΩ → ΔT/R ≤ -10% ~ +20%
Thermal Shock	-10°C ~ +85°C, 5 cycles without load ΔT/R ≤ ±10%
Vibration	10-55Hz, 1.5mm amplitude, 3 directions, 2 hours each ΔT/R ≤ ±2.5%
Soldering Heat Resistance	350°C, 3.5 seconds ΔT/R ≤ ±2%
Rotational Life	15,000 cycles (500 cycles for shaft lock models only) without load ΔT/R ≤ ±7%

Mechanical		Standard Rotary Switches					
Mechanical Travel	300° ± 5°	Switch Rating	110VAC, 1A or 3A, SPDT or SPST				
Shaft Torque	<table border="1"> <thead> <tr> <th>Single Unit</th> <th>Other Units</th> </tr> </thead> <tbody> <tr> <td>51 to 306 gf·cm (0.707 to 4.242 oz·in)</td> <td>51 to 510 gf·cm (0.707 to 7.070 oz·in)</td> </tr> </tbody> </table>	Single Unit	Other Units	51 to 306 gf·cm (0.707 to 4.242 oz·in)	51 to 510 gf·cm (0.707 to 7.070 oz·in)	Contact Resistance	0.05Ω max.
Single Unit	Other Units						
51 to 306 gf·cm (0.707 to 4.242 oz·in)	51 to 510 gf·cm (0.707 to 7.070 oz·in)						
Stop Strength	10.2 kgf·cm (141.4 oz·in) max.	Operating Torque	1,530 gf·cm (21.21 oz·in) max.				
Mounting Nut Torque	15 kgf·cm (207.94 oz·in) max.	Operating Life	10,000 cycles with rated load				
Solderability	235°C, 5 seconds						
Marking	Model type, taper, resistance code, shaft type, terminal identification, date code						

Part No.	Product No.	Manufacturer	Description	Power rating (W)	Resistance data(Ω)
5440	RV30YN20S-B101	TOCOS	Carbon Composition Potentiometers	1W	100 ohm
5443	RV30YN20S-B102	TOCOS	Carbon Composition Potentiometers	1W	1K ohm
5446	RV30YN20S-B103	TOCOS	Carbon Composition Potentiometers	1W	10K ohm
5449	RV30YN20S-B104	TOCOS	Carbon Composition Potentiometers	1W	100K ohm
5451	RV30YN20S-B105	TOCOS	Carbon Composition Potentiometers	1W	1M ohm
5441	RV30YN20S-B201	TOCOS	Carbon Composition Potentiometers	1W	200 ohm
5439	RV30YN20S-B202	TOCOS	Carbon Composition Potentiometers	1W	2K ohm
5447	RV30YN20S-B203	TOCOS	Carbon Composition Potentiometers	1W	20K ohm
48975	RV30YN20S-B254	TOCOS	Carbon variable resistors	1W	250KΩ
5442	RV30YN20S-B501	TOCOS	Carbon Composition Potentiometers	1W	500Ω ohm
5445	RV30YN20S-B502	TOCOS	Carbon Composition Potentiometers	1W	5K ohm
5448	RV30YN20S-B503	TOCOS	Carbon Composition Potentiometers	1W	50K ohm
5450	RV30YN20S-B504	TOCOS	Carbon Composition Potentiometers	1W	500K ohm

• If you cannot find the components you want on the catalogue, please call us.



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Centenary Materials

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