

Resistors & Potentiometers

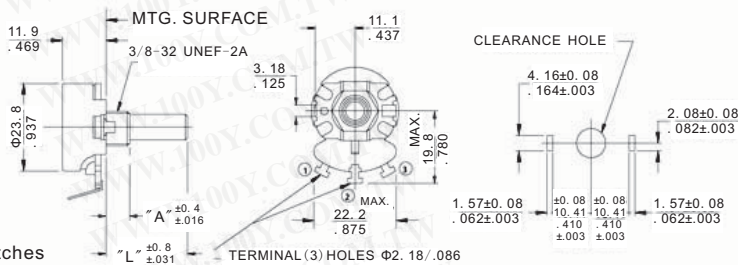
Low-Power Wire-Wound Potentiometers

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



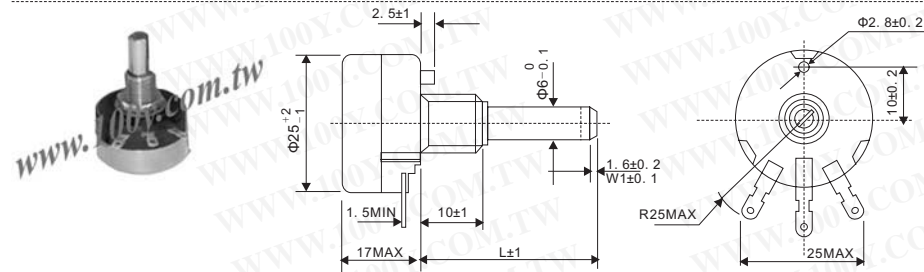
Features

- 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 : ± 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 countols.)
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°±5° With switch: 300°±5° Effective Rotation: Without switch: 280°±5° With switch: 265°±5°
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

Part No.	Product No.	Description	Resistance data(Ω)	Power rating (W)
13336	CT2153	Wire-Wound Potentiometer	50ohm	5W
12303	CT2154	Wire-Wound Potentiometer	100 ohm	5W
12302	CT2156	Wire-Wound Potentiometer	500 ohm	5W



MECHANICAL CHARACTERISTICS	
Mechanical angle	300°±5°
Shaft torque	Single 7~30mN·m (71.4~306gf·cm) Tandem 7~70mN·m (71.4~714gf·cm) Dual 7~45mN·m (71.4~459gf·cm)
Stop strength	1.0N·m min. (10.2kgf·cm min.)
Operating temp. Range	-10°C~+100°C -55°C~+100°C
Solderability	235°C, 3 sec

ELECTRICAL CHARACTERISTICS	
Total resistance range	B: 5Ω~20kΩ A, C: 100Ω~5kΩ
Total resistance tolerance	(Made to order ±5%, ±2%, ±1%)
End resistance	R<500Ω 1Ωmax. R≥500Ω 0.2%max.
Power rating	B: 1.2W/40°C A, C: 0.6W/40°C
Insulation resistance	100MΩ min (DC500V)
Dielectric strength	AC500V 1 minute

ENVIRONMENTAL CHARACTERISTICS		
Test item	Test condition	Standard
Soldering heat	350°C , 3.5sec	ΔR/R ≤ ± 2%
Rotation life	With half rating load 15,000 cycles 500 cycles (only shaft lock type)	ΔR/R ≤ ± 3%
Load life	40°C 1,000 hours with rating load	ΔR/R ≤ ± 3%
Temperature characteristic	85°C 5 hours without load	ΔR/R ≤ ± 5%
Low temperature exposure	(Only X type -55°C), 1 hour without load	ΔR/R ≤ ± 3%
Vibration	10~55Hz 2 directions of 2 hours each, amplitude 1.5mm	ΔR/R ≤ ± 1%
Moisture and load life	40°C 90~95%RH 1/10 loading 500 hours	ΔR/R ≤ ± 5%



Part No.	Product No.	Manufacturer	Description	Resistance data(Ω)	Power rating (W)	Tolerance(±)
41752	RA25Y20SB102	TOCOS	Low-Power Wire-Wound Potentiometer	1KΩ	1.2W	±10%

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

Taiwan: 886-3-5753170

Shanghai: 021-54151736 Shenzhen: 0755-83298787

Centenary Materials

Waiting for your phone call



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