

一. ELECTRICAL CHARACTERISTICS:

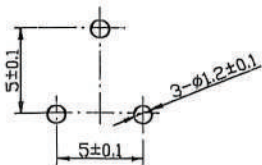
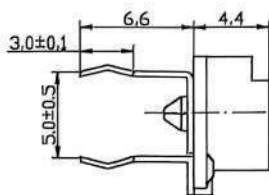
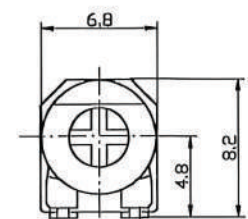
- 1.1 Total resistance : $100\Omega \sim 2M\Omega$ (TOLERANCE $\pm 20\%$).
- 1.2 Power rating: 0.3W.
- 1.3 Taper : Linear taper 40-60% at mid-point linear taper.
- 1.4 Residual resistance: Less than 1% of total nominal resistance.
- 1.5 Slide noise: 100mv MAX.
- 1.6 Max. operation voltage: AC 100V.
- 1.7 Temperature characteristics: Following exposure to $85\pm 3^\circ\text{C}$ without load for 5 hours, change in total resistance value to be within $\pm 3\%$ max.
- 1.8 Long-term resistance to heat: Following exposure to $85\pm 3^\circ\text{C}$ environment without load for 500 ± 10 hours and then, out of the test chamber, leave it in normal temperature and humidity condition for 2 hours. Following the above test, change in total resistance shall be within $\pm 5\%$ max.

二. MECHANICAL CHARACTERISTICS:

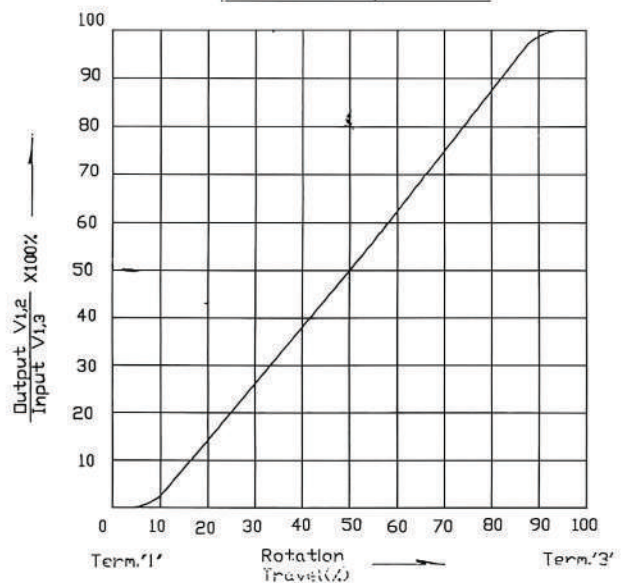
- 2.1 Overall rotation angle: $240^\circ \pm 20^\circ$.
- 2.2 Operation torque: 30-300gf-cm.
- 2.3 Stop strength: 0.7Kgf-cm MIN.

三. RELIABILITY TEST

- 3.1 Rotational life : More than 100 turn MIN. following 50 ± 2 rotations without load, change in total resistance value to be within $\pm 10\%$ max.



TAPER B (JIS B)



Rev.	Date	Description	P/N		Remark
			KSR-655MCL SERIES(CHINA)		
YUBRIGHT CO., LTD. <small>YUBRIGHT</small> <small>ESTD 1992</small>			Dwg. No. KSR655MCLSERIES02		
Title SEMI-FIXED POTENTIOMETER (ASSEMBLED/FINISHED IN CHINA)			Date 20260529	Rev. A	RoHS <input checked="" type="checkbox"/>
Unless otherwise specified, demensions are in millimeters.			File VRC010	Drw. b29	App. b29

Common Specification of Lead-Free Soldering for potentiometers

The specification below is based on testing results of 1.6mm thickness single layer printed circuit board.

1. For Manual Soldering:

1-1 To be performed within 3 seconds at 350°C or below.

2. For Automated or semi-Automated Soldering Equipments:

2-1 Flux of 0.82 specific gravity, applied by foam fluxer, shall be used. Foam head shall be limited to the height which is half thickness of printed circuit board to be soldered. No flux should be allowed to run up onto resistive element board of potentiometer and the surface of printed circuit board.

2-2 Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface of PCB) shall be settled within 100°C.

2-3 Solder dipping is to be performed within 4 seconds at 260°C or below.

3. For rotary potentiometer with plastic shaft which have center detent or multiple detents, the shaft should be settled in relevant detent position prior to soldering process.

4. Regardless of soldering facility and method, solder dipping or solder smearing must not be carried out more than 1 time.

5. This specification is not recommended for and applicable in reflow soldering.

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YUBRIGHT		YUBRIGHT CO., LTD.	KSR-655MCL SERIES(CHINA)			
Title		SEMI-FIXED POTENTIOMETER (ASSEMBLED/FINISHED IN CHINA)	Dwg. No.		KSR655MCLSERIES03	
			Date	20260529	Rev.	A
			File	VRC010	Drw.	b29
			App.	b29	RoHS	✓
Unless otherwise specified, demensions are in millimeters.						