

## 16mm Rotary Remote Control Potentiometer

### Electrical Characteristics

|                                  |                                                                                                                                                              |        |        |       |        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------|--------|
| All Resistance                   | 500 $\Omega$ ~ 2M $\Omega$                                                                                                                                   |        |        |       |        |
| All Resistance Tolerance         | $\pm 20\%$ (More than 1M $\Omega$ $\pm 30\%$ )                                                                                                               |        |        |       |        |
| Resistance Taper                 | A. B. C. D. W. Taper                                                                                                                                         |        |        |       |        |
| Resistance Taper Characteristics | A50%                                                                                                                                                         | B50%   | C50%   | D50%  | W50%   |
|                                  | 15-25%                                                                                                                                                       | 40-60% | 75-85% | 2-15% | 45-55% |
| Rated Power                      | 0.063 W                                                                                                                                                      |        |        |       |        |
| Max. Operating Voltage           | B Taper : AC200V, Other Taper: AC 150V                                                                                                                       |        |        |       |        |
| Residual Resistance              | $R \geq 250K\Omega$ 0.1%<br>$250K\Omega > R > 10K\Omega$ 10 $\Omega$ Max. ( between Term. 1, 2)<br>$20K\Omega \geq R$ 20 $\Omega$ Max. ( between Term. 2, 3) |        |        |       |        |
| Gang Error                       | -40 ~ 0db $\leq$ 3 db                                                                                                                                        |        |        |       |        |
| Noise                            | 47 mV max.                                                                                                                                                   |        |        |       |        |
| Insulation Resistance            | Potentiometer Section: DC 250V 100M $\Omega$                                                                                                                 |        |        |       |        |
|                                  | Motor Section: DC 100V 1M $\Omega$                                                                                                                           |        |        |       |        |
| Withstand Voltage                | 1 minute AC 300V                                                                                                                                             |        |        |       |        |
| Motor Voltage                    | 4~6 VDC (4.5 VDC Standard)                                                                                                                                   |        |        |       |        |
| Operating current                | 100mA Max (at rotation)<br>150mA Max (at end slip)                                                                                                           |        |        |       |        |
| Rotational Life                  | More than 10,000 Cycles                                                                                                                                      |        |        |       |        |

### Mechanical Characteristics

|                        |                                                   |
|------------------------|---------------------------------------------------|
| Total Rotational Angle | 300° $\pm$ 5°                                     |
| Stopper Strength       | 8kgf.cm max./3 minute.                            |
| Rotational Torque      | 100~450gf.cm (Hand operation)                     |
| Rotational Speed       | 12 $\pm$ 3 sec. (at 4.5VDC applied to motor)      |
| Solder Heat            | 300°C, 3S. (Only For Hand-Soldering)              |
| Remark                 | Shaft: Aluminum Zinc; Bushing Material: Cast Iron |