



**24mm Plastic Shaft Rotary Potentiometer – With Switch****Electrical Characteristics**

|   |   |             |             |             |             |
|---|---|-------------|-------------|-------------|-------------|
| <b>All Resistance</b>                   | 1K ~ 1MΩ                                      |             |             |             |             |
| <b>All Resistance Tolerance</b>         | ± 20% (more than 1MΩ ± 30%)                   |             |             |             |             |
| <b>Resistance Taper</b>                 | A. B. C. D. W. Taper                          |             |             |             |             |
| <b>Resistance Taper Characteristics</b> | <b>A50%</b>                                   | <b>B50%</b> | <b>C50%</b> | <b>D50%</b> | <b>W50%</b> |
|   | 15-25%  | 40-60%      | 75-85%      | 2-15%       | 45-55%      |
| <b>Rated Power</b>                      | B taper: 500V 0.5W; Other Tapers: 250V 0.25 W |             |             |             |             |
| <b>Residual Resistance</b>              | $R \geq 250K\Omega$ 0.1%                      |             |             |             |             |
|   | $250K\Omega > R > 10K\Omega$                  |             | 10Ω Max.    |             |             |
|   | $10K\Omega \geq R$                            |             | 10Ω Max.    |             |             |
| <b>Noise</b>                            | 47 mV max.                                    |             |             |             |             |
| <b>Switch Rated Power</b>               | AC/DC 125 V 1.0A                              |             |             |             |             |
| <b>Switch Contact Resistance</b>        | 0.3 mΩ max.                                   |             |             |             |             |
| <b>Insulation Resistance</b>            | More than 100 MΩ at DC 500V                   |             |             |             |             |
| <b>Withstand Voltage</b>                | 1 minute at AC 250V                           |             |             |             |             |
| <b>Rotational Life</b>                  | 15,000 cycles.                                |             |             |             |             |

**Mechanical Characteristics**

|                                |  |
|--------------------------------|--|
| <b>Total Rotational Angle</b>  | 300° ± 10°   |
| <b>Stopper Strength</b>        | 5 kgf.cm max./3 sec.   |
| <b>Rotational Torque</b>       | 30 ~ 200gf.cm  |
| <b>Switch Action</b>           | 200 ~ 800gf.cm   |
| <b>Switch Rotational Angle</b> | 50° ± 5°   |
| <b>Pull-Push Strength</b>      | 10 kgf.cm max./3 sec.  |
| <b>Switch Circuit</b>          | S.P.S.T.   |
| <b>Solder Heat</b>             | 300°C, 3s (Only For Hand-Soldering)  |
| <b>Remark</b>                  | Shaft: Cast Iron, Aluminum Zinc, Plastic<br>Bushing Material: Cast Iron, plastic |