

21 mm Rotary Potentiometer

PHS21 Series



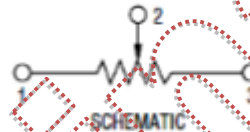
Features:

- Resistance range 1 K Ω to 1 MEG Ω
- Conductive plastic element
- 50,000 cycle life
- Hollow shaft



Description:

21 mm rotary hollow shaft potentiometer with plastic housing with mounting wings. Linear taper.



Applications:

- Amplifiers/mixers/synthesizers
- Appliances
- Audio/Car Radio/TV sets
- Industrial Controls
- Medical Equipment Controls
- Throttle Controls

Electrical Characteristics

$T_A = 25^\circ\text{C}$ unless otherwise noted

| | |
|-------------------------------|-------------------------------|
| Resistance Range | 1K Ω to 1M Ω |
| Standard Resistance Tolerance | $\pm 20\%$ |
| Electrical Angle | $300^\circ \pm 10^\circ$ |
| Maximum Operating Voltage | 50 VAC/20 VDC |
| Rated Power | 0.5W |
| Dielectric Strength | 1 minute at 250 VAC |
| Insulation Resistance | 100M Ω min. at 200 VDC |
| Rotational Noise | TBD max. |

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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Mechanical Characteristics

T_A = 25°C unless otherwise noted

| | |
|-------------------------|----------------|
| Total Rotational Travel | 360° |
| Rotational Torque | 20 - 150 gf.cm |
| Rotational Life | 50,000 cycles |

Environmental Characteristics

T_A = 25°C unless otherwise noted

| | |
|-----------------------|--|
| Operating Temperature | -20°C to +105°C |
| IP Rating | IP 40 |
| Soldering Condition | Wave Soldering 260°C maximum for 1-3 seconds Hand Soldering 300°C maximum for 3 seconds |
| RoHS | Please refer to TT Electronics website |
| REACH | Please refer to TT Electronics website |

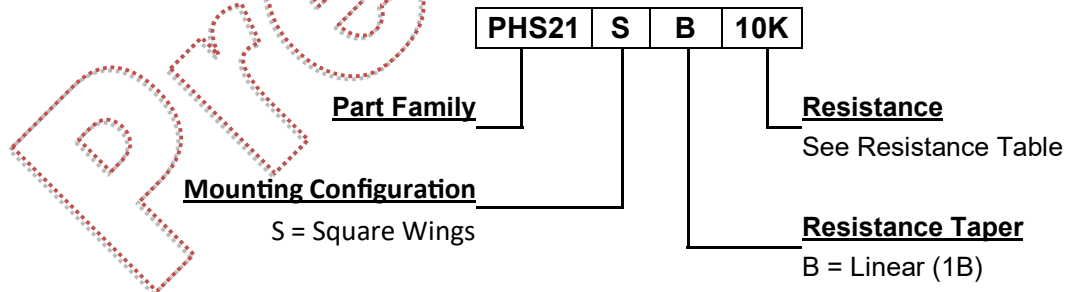
Packaging

Information

| | |
|--------------------|---------------|
| Standard Packaging | Plastic Trays |
|--------------------|---------------|

Ordering

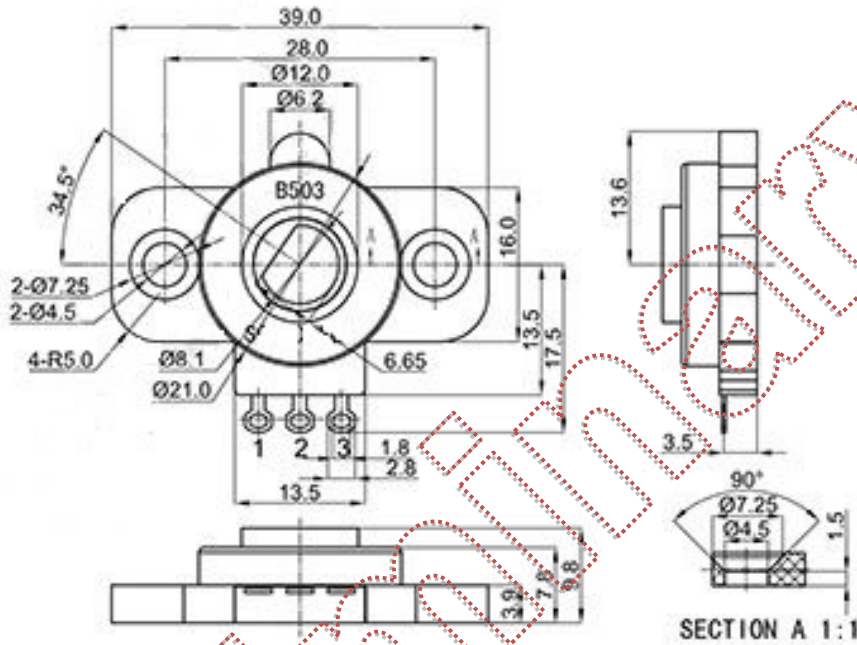
Information



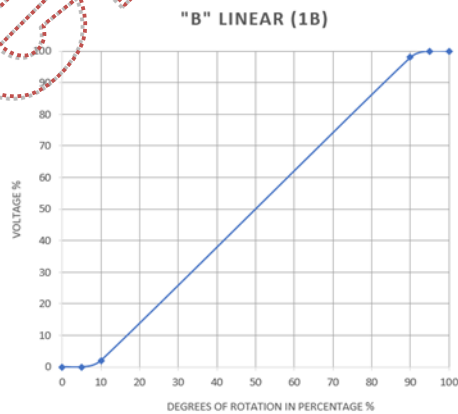
Resistance Table

| | | | | | | | | | | |
|-------------------|-------|-------|-------|--------|--------|--------|---------|---------|---------|-----------|
| Resistance (Ohms) | 1,000 | 2,000 | 5,000 | 10,000 | 20,000 | 50,000 | 100,000 | 200,000 | 500,000 | 1,000,000 |
| Code | 1K | 2K | 5K | 10K | 20K | 50K | 100K | 200K | 500K | 1MEG |

Outline Drawing



Standard Tapers



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