imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Single Turn Precision Potentiometer

Model 5710 Series

Features:

- 3" diameter
- Wirewound





Model Styles

| 5711 | 1/4" Shaft, 1/2" Bushing |
|------|--------------------------|
| 5713 | 1/4" Shaft, Servo |

Electrical

| Resistance Range, Ohms | 25 to 145K |
|---|------------------------------------|
| Standard Resistance Tolerance | ±5% |
| Minimum Practical Resistance Tolerance | ±1% |
| Independent Linearity | ±0.5% |
| Minimum Practical Independent Linearity | ±0.5%, <75 Ohms |
| | ±0.25%, 75-249 Ohms |
| | ±0.15%, 250-6,999 Ohms |
| | ±0.075%, ≥7K Ohms |
| Power Rating, Watts | 5.0 at 40°C derating to 0 at 105°C |
| Dielectric Strength | 1,000V rms |
| Insulation Resistance, Minimum | 1,000 Megohms |
| Noise, Maximum | 100 Ohms |
| Actual Electrical Travel | 358° ±1° |
| Tap Tolerance | ±1° |
| End Voltage, Maximum | Within Std. Linearity Tolerance |
| | |

Environmental

| Operating Temperature Range | Static: -65°C to +105°C |
|-----------------------------|--|
| | Dynamic: -40°C to +125°C |
| Temperature Cycling | 5 cycles, -65°C to +105°C |
| Shock, 6ms Half Sine | 100G's |
| Vibration | 5G's, 10 to 500 Hz |
| Moisture | Ten 24 hour cycles |
| High Temperature Exposure | 1,000 hours at 105°C |
| Rotational Life | 1 Mil. Shaft Rev. |
| Rotational Load Life | 1 mil. shaft rev. plus 900 hrs. at rated wattage at 40°C |
| | |

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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Single Turn Precision

Potentiometer



Mechanical

| Total Mechanical Travel | 360° Continuous | | |
|--|--------------------|---------------|--|
| Number of Cups, Maximum | | 4 | |
| Weight, Nominal | 5.8 oz. Single Cup | | |
| | 1.3 oz. E | ach Added Cup | |
| Backlash, Maximum | | 1° | |
| Shaft End Play, Maximum | | .005" | |
| | 5711 | 5713 | |
| Shaft Runout, T.I.R., Maximum | .0005" | .001" | |
| Pilot Diameter Runout, T.I.R., Maximum | .002" | .0015" | |
| Lateral Runout, T.I.R., Maximum | .004" | .101" | |
| Shaft Radial Play, Maximum | .004" | .002" | |
| Starting Torque, Maximum | 1.5 ozin. | 1.3 ozin. | |
| Running Torque, Maximum | 1.2 ozin. | 0.7 ozin. | |

| Total Resistance | Theoretical Resolution (% Nominal) | Tempco of Wire |
|---------------------|--|-------------------|
| nesistance | (% Nominal) | UI WITE |
| 1K | 0.062 | ±130 ppm/°C |
| 2K | 0.050 | ±130 ppm/°C |
| 5K | 0.038 | ±130 ppm/°C |
| 10K | 0.031 | ±130 ppm/°C |
| 20K | 0.027 | ±130 ppm/°C |
| 50K | 0.024 | ± 20 ppm/°C |
| 100K | 0.022 | ± 20 ppm/°C |

Standard Resistance Values, Ohms

| METRIC CONVERSIONS | | | |
|--------------------|---------|---------|-----------|
| 1 in. | 25.4 mm | 1 ozin. | 0,007 N-m |
| 1 oz. | 28.4 gm | 1 lbin. | 0,113 N-m |

Special Features

| Center Tap | CT |
|-----------------------|----|
| Linearity Tape | LT |
| Rear Shaft Extension | RS |
| Flatted Shaft | FS |
| Slotted Shaft | SS |
| Anti-Fungus Treatment | AF |

General Note

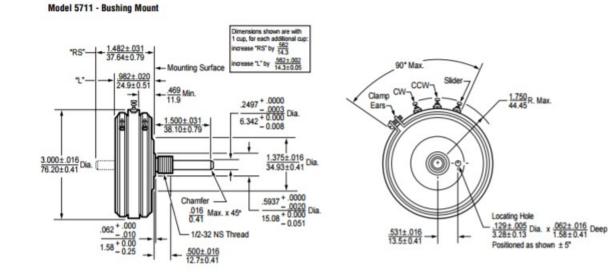
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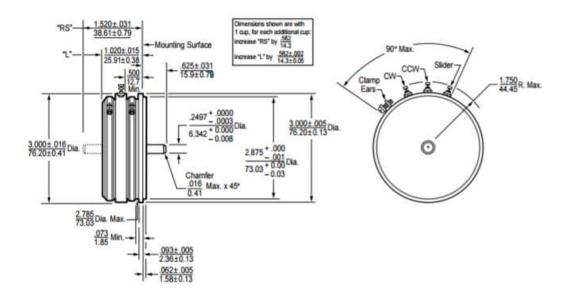
Single Turn Precision Potentiometer



Outline Drawings







General Note

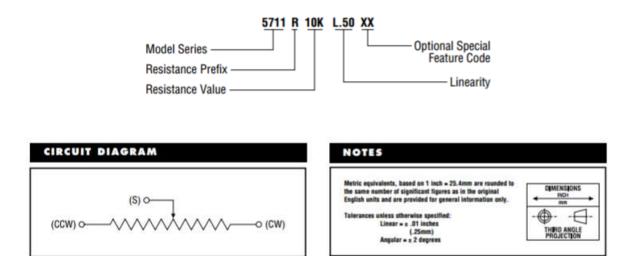
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Single Turn Precision Potentiometer



Ordering Infomation



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