



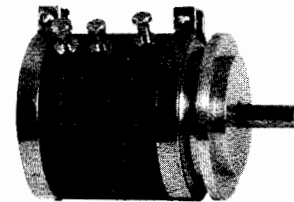
Model 3560
BOURNS Potentiometer
7/8" Diameter 3-Turn Servo Mount
WIREWOUND ELEMENT

OBSOLETE 2002

FEATURES

- Outstanding resistance to humidity. Exceeds humidity cycling requirements of MIL-R-12934.
- Shaft supported by front and rear lid precision ball bearings.
- High temperature, moisture resistant thermosetting plastic housing.
- SILVERWELD® termination eliminates vulnerable single wire termination.
- Performance of the Model 3560 is guaranteed by the Bourns Reliability Assurance Program, which includes individual inspection to published electrical and physical characteristics.
- Custom design capability is available to satisfy your most demanding special requirements.

Actual Size



STANDARD RESISTANCES

| Resistance (Ohms) | Part Number** | Resolution (Percent) |
|-------------------|---------------|----------------------|
| 25 | 3560S-1-250 | 0.187 |
| 50 | 3560S-1-500 | 0.149 |
| 100 | 3560S-1-101 | 0.121 |
| 200 | 3560S-1-201 | 0.102 |
| 500 | 3560S-1-501 | 0.076 |
| 1,000 | 3560S-1-102 | 0.065 |

* Sleeve type bearings available at reduced cost Model 3560S-92-RC.

| Resistance (Ohms) | Part Number** | Resolution (Percent) |
|-------------------|---------------|----------------------|
| 2,000 | 3560S-1-202 | 0.063 |
| 5,000 | 3560S-1-502 | 0.047 |
| 10,000 | 3560S-1-103 | 0.041 |
| 20,000 | 3560S-1-203 | 0.031 |
| 50,000 | 3560S-1-503 | 0.024 |
| 100,000 | 3560S-1-104 | 0.019 |

**The last three digits of the part number represent the resistance in standard code.

BOURNS Potentiometer Model 3560

STANDARD SPECIFICATIONS

THE SPECIFICATIONS LISTED BELOW ARE FOR THE STANDARD MODEL. MODIFICATIONS OF ALL TYPES (MECHANICAL, ELECTRICAL AND ENVIRONMENTAL) CAN BE CUSTOM ENGINEERED TO YOUR SPECIFIC REQUIREMENTS.

ELECTRICAL CHARACTERISTICS

| | |
|--|-------------------------------------|
| Resistance Range | 25 ohms to 100K |
| Resistance Tolerance* | ±3% |
| Linearity (Independent)* | ±0.25% |
| Resolution | See standard resistance chart |
| Effective Electrical Angle* | 1080° (+10°/-0°) |
| Absolute Minimum Resistance | 1 ohm or 0.1%, whichever is greater |
| Noise* | 100 ohms ENR maximum |
| Power Ratings: | |
| 70°C | 1.5 watt |
| 125°C | 0 watt |
| Dielectric Strength | MIL-R-12934 |
| Room Conditions | 1000 volts AC |
| 80,000 feet (0.8" Hg.) | 300 volts AC |
| Insulation Resistance, 500 volts DC* | 1000 megohms minimum |

ENVIRONMENTAL CHARACTERISTICS

| | |
|--|-------------------------------|
| Operating Temperature Range | - 65 to +125°C |
| Temperature Coefficient Of Resistance Wire① | 20 ppm/°C maximum |
| Humidity | MIL-R-12934, humidity cycling |
| Vibration | MIL-R-12934, 20G |
| Discontinuity | 0.1 millisecond maximum |
| Wiper Shift, maximum | 0.2% |
| Shock | MIL-R-12934, 100G |
| Discontinuity and Wiper Shift | Same as Vibration |
| Load Life | 1000 hours MIL-R-12934 |
| Resistance Shift | 2.0% maximum |

| | |
|---------------------|-------------|
| Sand and Dust | MIL-E-5272 |
| Fungus | MIL-E-5272 |
| Salt Spray | MIL-R-12934 |

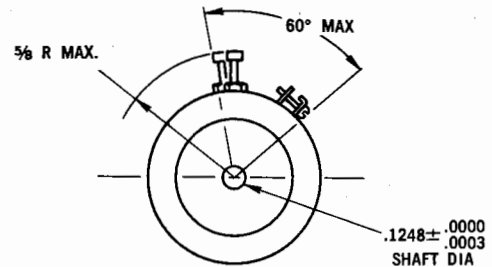
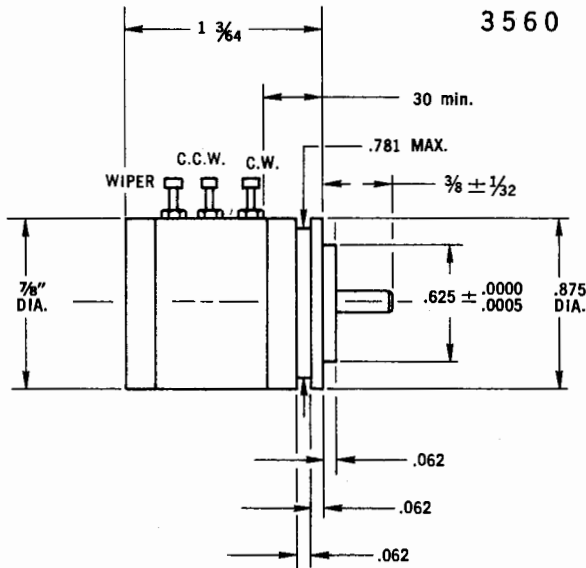
MECHANICAL AND PHYSICAL CHARACTERISTICS

| | |
|------------------------------|---|
| Mechanical Angle* | 1080° (+10°/-0°) |
| Shaft Runout* | .001 in. T.I.R. |
| Shaft End Play* | .003 in. T.I.R. |
| Shaft Radial Play* | .002 in. T.I.R. |
| Pilot Diameter Runout* | .0015 in. T.I.R. |
| Lateral Runout* | .003 in. T.I.R. |
| Stop Strength | 96 oz./In. |
| Torque* | 0.4 oz.-in. maximum (starting) 0.3 oz.-in. maximum (running) |
| Ganging | 3 cups maximum (add 75% for each additional cup) |
| Rotational Life① | 600,000 shaft revolutions |
| Moment of Inertia | 0.25 gm cm ² |
| Weight | Approximately 0.8 oz. |
| Terminals | Gold-plated turret type |
| Markings* | Manufacturer's name and part number, resistance value and tolerance, linearity, tolerance, wiring diagram, and date code. |

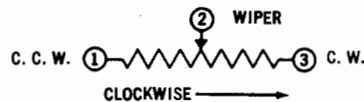
* 100% or statistical sampling inspection performed to insure highest quality.

① Consult manufacturer for complete specification details for resistance below 100 ohms.

Specifications are subject to change without notice.



TOLERANCES: EXCEPT WHERE NOTED
DECIMALS: .XX ± .010, .XXX ± .005
FRACTIONS: ± 1/64



NOTE:
ADD .725 to 1 3/64" DIMENSION FOR EACH ADDITIONAL CUP



Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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