



## Features

- Carbon composition/Industrial/Sealed
- Locking-Bushing/Standard-Bushing
- Meet MIL-R-94

## WS Series Hot-Molded Carbon Composition Potentiometer

### Electrical Characteristics

Standard Resistance Range..... A: 100 to 4700K ohms  
 .....B/C: 1K to 1000K ohms  
 Resistance Tolerance.....  $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$   
 Absolute Minimum Resistance..... 15 ohms  
 (for total resistance values of 100 to 820 ohms inclusive)  
 .....1%  
 (for total resistance values of 1K to 4700K ohms inclusive)  
 Contact Resistance Variation.....5%  
 Insulation Resistance (100 VDC)....1,000 megohms minimum  
 Power Rating.....  
 70°C .....A: 0.5 watt  
 .....B/C: 0.25 watt  
 125°C .....0 watt

### Environmental Characteristics

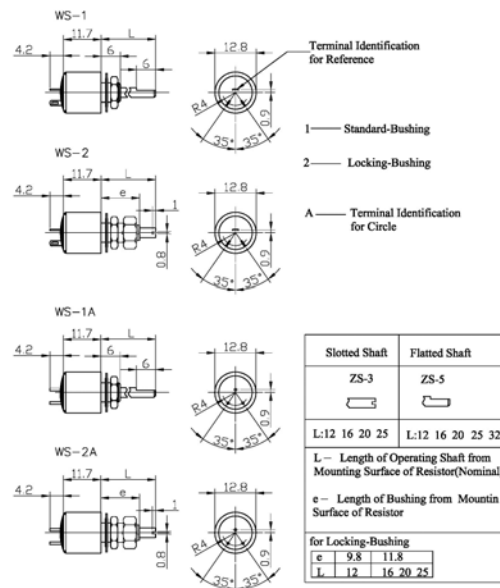
Temperature Range.....-55°C to +125°C  
 Vibration.....15G  
 Shock.....100G  
 Load Life.....  
 1,000 hours, 70°C .....A: 0.5 watt  
 .....B/C: 0.25 watt  
 Total Resistance Shift..... $\pm 10\%$   
 Rotational Life.....  
 WS-1/1A (Standard-Bushing Type).....10,000 cycles  
 Total Resistance Shift..... $\pm 10\%$   
 WS-2/2A (Locking-Bushing Type).....500 cycles  
 Total Resistance Shift..... $\pm 10\%$

### Mechanical Characteristics

Total Mechanical Angle.....270° minimum  
 Torque.....  
 Starting Torque.....0.8 to 5 N•cm  
 Lock Torque (Locking-Bushing Type).....8 N•cm  
 Weight.....Approximately 8G

### How To Order

Model WS - 2A - 0.5 - 4K7 - 16ZS-3 - M  
 Style \_\_\_\_\_  
 Power Rating \_\_\_\_\_  
 Standard Resistance \_\_\_\_\_  
 Length of Operating Shaft  
 (from Mounting Surface) \_\_\_\_\_  
 Slotted Shaft \_\_\_\_\_  
 Resistance Tolerance \_\_\_\_\_  
 M=20%; K=10%



Standard Resistance Table (ohms)

|     |     |     |      |     |
|-----|-----|-----|------|-----|
| 100 | 1K  | 10K | 100K | 1M  |
| 120 | 1K2 | 12K | 120K | 1M2 |
| 150 | 1K5 | 15K | 150K | 1M5 |
| 180 | 1K8 | 18K | 180K | 1M8 |
| 220 | 2K2 | 22K | 220K | 2M2 |
| 270 | 2K7 | 27K | 270K | 2M7 |
| 330 | 3K3 | 33K | 330K | 3M3 |
| 390 | 3K9 | 39K | 390K | 3M9 |
| 470 | 4K7 | 47K | 470K | 4M7 |
| 560 | 5K6 | 56K | 560K |     |
| 680 | 6K5 | 68K | 680K |     |
| 820 | 8K2 | 82K | 820K |     |

Popular values listed in boldface. Special resistance available.

Derating Curve P.

