## WS Carbon Composition Potentiometer

## Features

- Hot-Molded / Industrial / Sealed
- Locking-Bushing / Standard-Bushing
- Meet MIL-R-94

### Electrical Characteristics

Standard Resistance Range…….. A: 100 to 4M7 ohms
…… B/C: 1K to 1M ohms
Resistance Tolerance…… ±5%,±10%,±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 M ohms minimum
Power Rating: at 70℃
…… A: 0.5 watt
…… B/C: 0.25 watt
at 125℃ …… 0 watt

### Environmental Characteristics

Temperature Range……-55℃ to +125℃
Vibration…….. 15G
Shock…… 100G
Load Life: 1,000 hours, 70℃
……A: 0.5 watt
…… B/C: 0.25 watt
Total Resistance Shift…… ±10%
Rotational Life
WS-1/1A (Standard-Bushing Type)…… 10,000 cycles
Total Resistance Shift…… ±10%
WS-2/2A(Locking-Bushing Type)…… 500 cycles
Total Resistance Shift…… ±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 8 gram

### How To Order

| WS | 1 | 0.5 | 4K7 | 16 | 3 | A | M |
|---|---|---|---|---|---|---|---|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |

① Model

② Bushing Style:
1-- Standard bushing; 2--Lock Bushing

③ Power Rating
0.5W--linear taper; 0.25W--log taper & anti-log taper

④ Standard Resistance: see standard resistance table

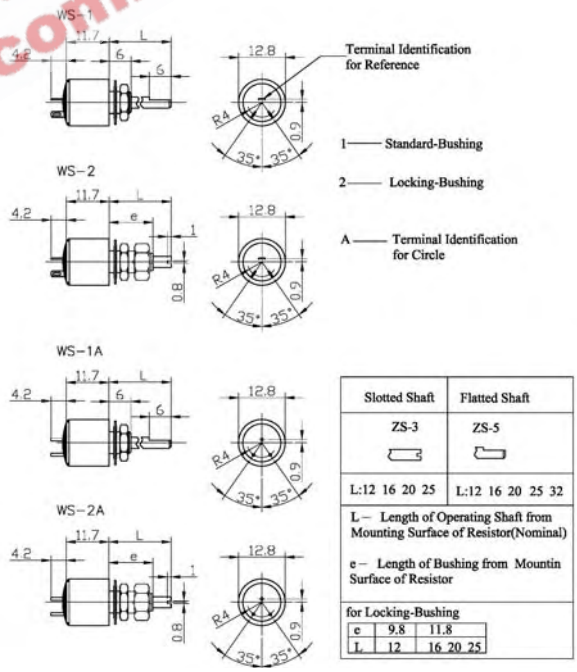
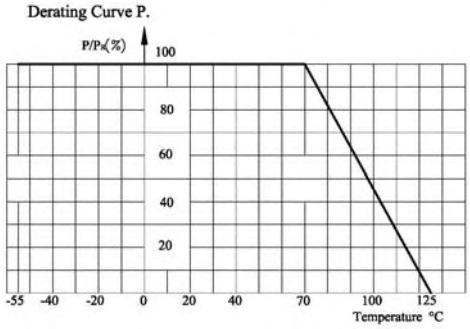
⑤ Length of Operating shaft (from mounting surface)

⑥ Shaft Style: 3--Slotted shaft; 5--Flatted shaft

⑦ Taper: Blank--Linear; B—Log; C--Anti-Log

⑧ Resistance Tolerance J = 5%, K = 10%, M = 20%

### 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 | |

Special resistance available.