

WS19 Carbon Composition Potentiometer



Feature

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

Electrical Characteristics

Standard Resistance Range

..... A: 100ohm~4M7ohm

..... B/C: 1KΩ~470KΩ

Resistance tolerance ±10%;±20%

Absolute Minimum Resistance..... 15ohms
(for total resistance value of 100 to 820 ohms inclusive)

..... ≤15%

(for total resistance value of 1K to 4700K ohms inclusive)

..... 5%

Contact Resistance Variation ≤5%

Insulation resistance (100VDC) 1000Mohm (min)

Power Rating

70℃..... A: 1Watt

..... B/C: 0.5Watt

125℃..... .0Watt

Limit voltage..... A:350V

..... B, C: 250V

Withstand Voltage..... 1300Vdc

Environmental Characteristics

Temperature Range..... - 55℃ to +125℃

Vibration..... 15G

Shock..... 100G

Load Life at 70℃..... 1000 hours

..... ΔR/R≤±10%

Rotational Life

Standard---Bushing Type..... 25000cycles

Locking ---Bushing Type..... 500cycles

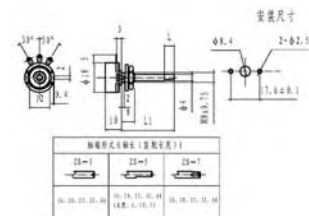
Mechanical Characteristics

Total mechanical travel ≥290°

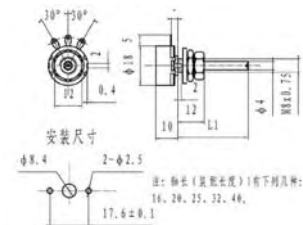
Starting torque 4~25mN·m



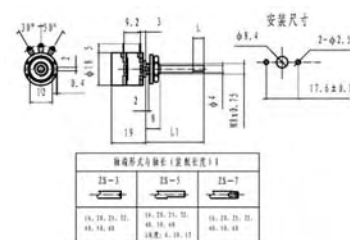
WS19-1



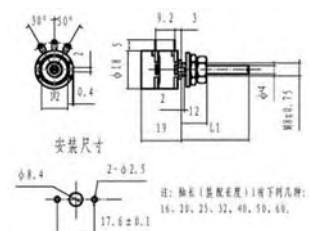
WS19-2



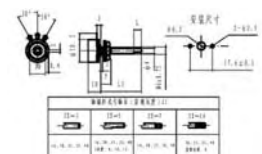
WS19-3



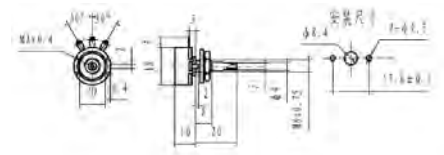
WS19-4



WS19-1A



WS19-1F



WS19 - K1/K2 Carbon Composition Potentiometer

Feature



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

Electrical Characteristics

Withstand Voltage.....	750Vdc
Switch insulation Voltage.....	500V
Switch capacity.....	250V 1A
Operating Noise.....	≤68mV

Environmental Characteristics

Load Life at 70°C.....,1W	240 hours,
	ΔR/R≤±10%
Rotational Life.....	10000cycles

Mechanical Characteristics

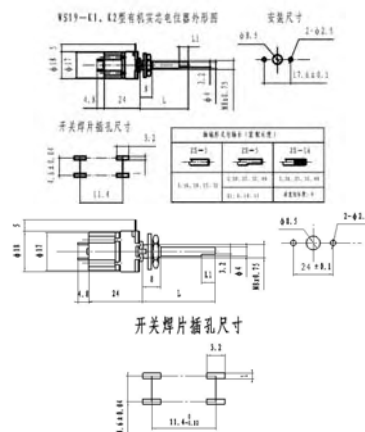
Total mechanical travel	270°
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WS19-K1



WS19-K2



Note: Above characteristics is exclusive for WS19-K1/K2, other characteristics is the same as WS19 series.

How to Order

WS19	1	1W	4K7	16	3	A	K
①	②	③	④	⑤	⑥	⑦	⑧

① Model-----WS19 Carbon composition Potentiometer

② Bushing Style

1	2	3	4	1A	1F	K1/K2
Standard bushing	Lock Bushing	Standard bushing & dual resistive elements.	Lock bushing & dual resistive elements.	Standard bushing with 6mm diameter (Others: 8mm)	Standard bushing & waterproofing	Switch style (difference dimension for K1 & K2)

③ Power Rating

1W-----linear taper; 0.5W-----log taper & anti-log taper

Power rating of resistor body far away from bushing will be cut half for WS19-3/4.

④ Standard Resistance ----- standard resistance table is available in WS series datasheet

⑤ Length of Operating shaft (from mounting surface) 16/20/25/40/50/60mm are available. Custom lengths upon request.

⑥ Shaft Style: 3-----Slotted shaft; 5-----Flatted shaft; 1-----Knurled

⑦ Taper

A-----Linear Taper; B-----Log Taper; C-----Anti-Log Taper;

⑧ Resistance Tolerance

K = 10 %; M = 20 %