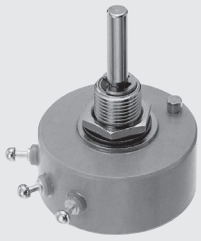
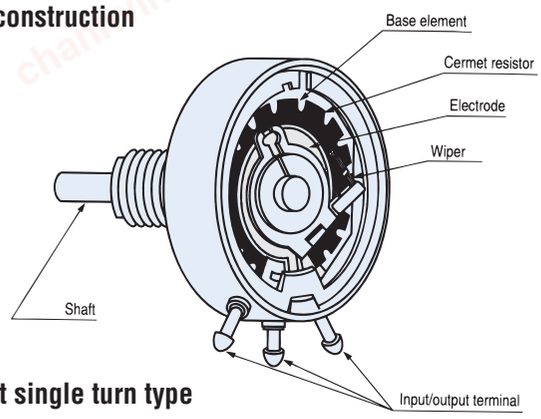
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CERMET SINGLE TURN TYPE JP-30

RoHS compliant



Basic construction



Cermet single turn type

FEATURES

- Cost effective (In house comparison)
- High resoluiion (Essentially infinite)
- RoHS compliant

PART NUMBER DESIGNATION

JP-30-1k

Series name
JP-30 : For sensor

(Ω) Nominal resistance value
500, 1 k, 2 k, 5 k, 10 k, 20 k, 50 k, 100 k

STANDARD SPECIFICATIONS

Item / Part number	JP-30
Resistance torelance %	± 2
Resolution	Essentially infinite
Independent linearity %	± 0.5
Effective electrical angle	300° ± 1°
Mechanical angle	360° continuous
Power rating (at 40 °C) W	1.5
Dielectric strength Vrms	1000 1 min
Insulation resistance MΩ minimum	1000 (at DC500 V)
Rotational torque mN·m {gf·cm}	2.94 {30} maximum
Peak noise	2 % or 100 Ω, whichever is greater
Temp. coefficient of resistance 10^{-6}/°C	± 150
Operating temp. range °C	−55 ~ 85
Maximum rotational speed r/min	150
Rotational life	3 million revolution
Net weight g	Approx. 26
Strength of tighten screw	0.98 N·m {10 kgf·cm} maximum

❊ Perform soldering of the terminals at 380 °C for no more three seconds, and avoid applying excess heat. Also, avoid applying outside force to the terminals.
In case of using multiturn potentiometers, when rotating the shaft to the mechanical limit, apply torque below the strength of the stopper. Also, give due consideration to thrust and radial loading.

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JP-30
POTENTIOMETERS

■ LIST OF PART NUMBERS

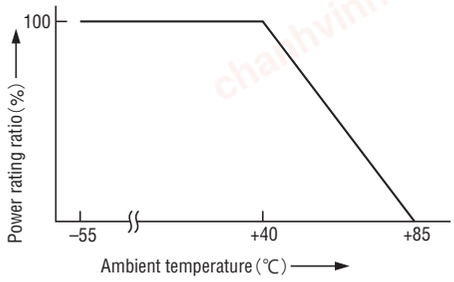
Application	Series name	Nominal resistance value	Part number
For sensor	JP-30	500 Ω	JP-30 500
		1 kΩ	JP-30 1 k
		2 kΩ	JP-30 2 k
		5 kΩ	JP-30 5 k
		10 kΩ	JP-30 10 k
		20 kΩ	JP-30 20 k
		50 kΩ	JP-30 50 k
		100 kΩ	JP-30 100 k

※ Verify the above part numbers when placing orders.

■ NOMINAL RESISTANCE VALUE • RATED VOLTAGE • RATED CURRENT

(Ω) Nominal resistance value	JP-30	
	(V) Rated voltage	(mA) Rated current
500	27.3	54.7
1 k	38.7	38.7
2 k	54.7	27.3
5 k	86.6	17.3
10k	122	12.2
20 k	173	8.66
50 k	273	5.47
100 k	387	3.87

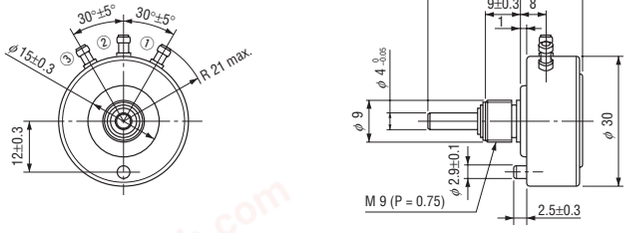
■ RATED POWER DERATING CURVE



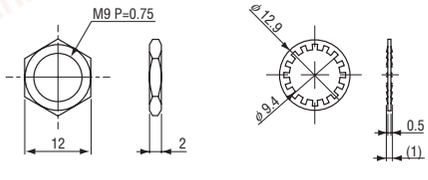
■ OUTLINE DIMENSIONS

Unless otherwise specified, tolerance: ± 0.5 (Unit: mm)

● **JP-30**
For sensor



(Accessories)



1. Nut 2. Washer