

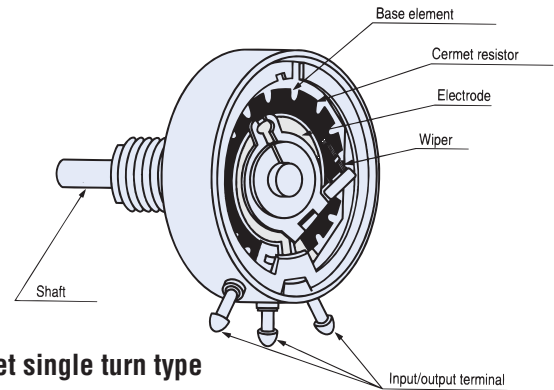
CERMET SINGLE TURN TYPE

JP-30

RoHS compliant



Basic construction



Cermet single turn type

FEATURES

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

PART NUMBER DESIGNATION

JP-30-1k

Series name
JP-30 : For sensor

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

STANDARD SPECIFICATIONS

| Item | Part number | JP-30 |
|---------------------------------|----------------------|------------------------------------|
| Resistance tolerance | % | ± 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.

JP-30 POTENTIOMETERS

LIST OF PART NUMBERS

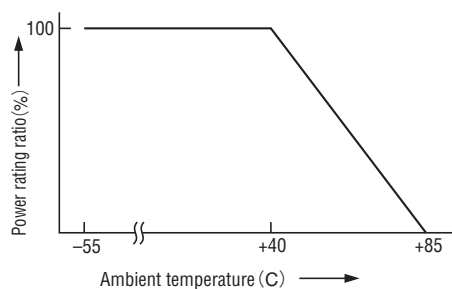
| Application | Series name | Nominal resistance value | Part number |
|-------------|-------------|--------------------------|-------------|
| For sensor | JP-30 | 500 Ω | JP-30 500 |
| | | 1 kΩ | JP-30 1 k |
| | | 2 kΩ | JP-30 2 k |
| | | 5 kΩ | JP-30 5 k |
| | | 10 kΩ | JP-30 10 k |
| | | 20 kΩ |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

| Nominal resistance value (Ω) | JP-30 | |
|------------------------------|-------------------|--------------------|
| | Rated voltage (V) | Rated current (mA) |
| 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 |

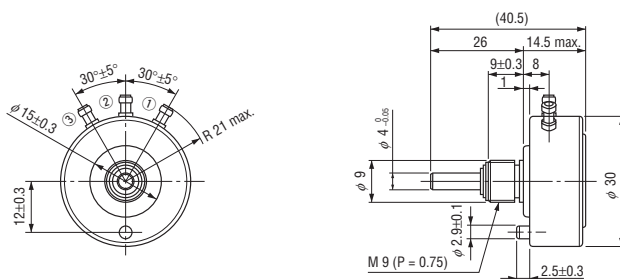
RATED POWER DERATING CURVE



OUTLINE DIMENSIONS

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

JP-30 For sensor



(Accessories)

