

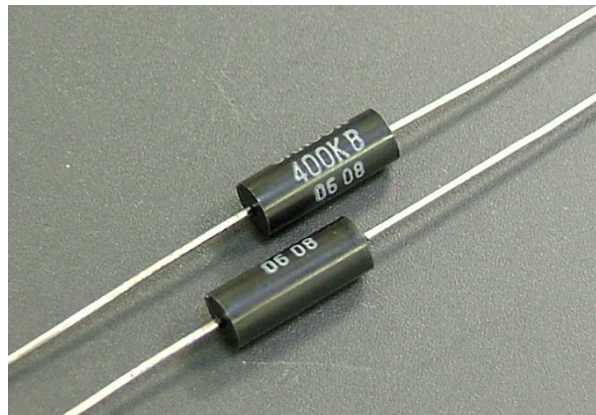
Correctohm-SRN Series

RESISTOR

Metal Film Resistor

Super precision & Low T.C.R

Molding insulation



Model number

SRN **60** **S** **10kohm** - **A**
 Product type Rated power Temperature coefficient of resistance Resistance value Resistance tolerance

Temperature coefficient of resistance

| Symbol | R | S |
|--------------------|----|-----|
| T.C.R [ppm/degs.C] | ±5 | ±10 |

* The guarantee temperature range of T.C.R is 0~70 degs.C about R, S.

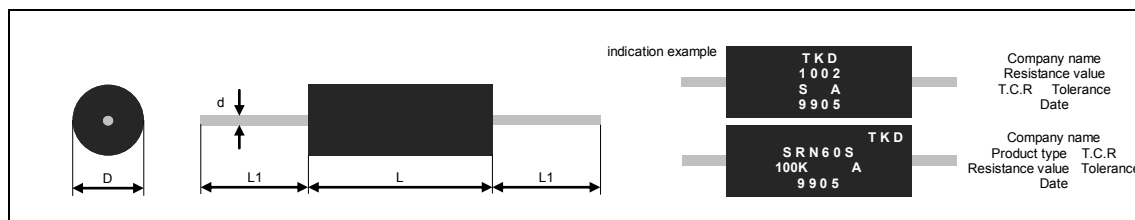
Resistance tolerance

| Symbol | T | E | A |
|---------------|-------|--------|-------|
| Tolerance [%] | ±0.01 | ±0.025 | ±0.05 |

Production resistance value range

| Product type | Resistance tolerance | Production resistance value range [ohm] | |
|--------------|----------------------|---|------------|
| | | Temperature coefficient of resistance | |
| | | R | S |
| SRN55 | T, E, A | 49.9~100K | 49.9~100K |
| SRN60 | T | 49.9~200K | 49.9~200K |
| | E, A | | 49.9~511K |
| SRN65 | T | 49.9~511K | 49.9~511K |
| | E, A | | 49.9~1M |
| SRN70 | T, E | 49.9~1M | 49.9~1M |
| | A | | 49.9~3.52M |

Dimensions



Dimensions [mm]

| Product type | D | L | d | L1 |
|--------------|---------|----------|----------|------|
| SRN55 | 3.4±0.2 | 6.6±0.5 | 0.6±0.05 | 38±3 |
| SRN60 | 3.9±0.2 | 10.5±0.5 | 0.6±0.05 | 38±3 |
| SRN65 | 5.3±0.3 | 16.0±0.5 | 0.6±0.05 | 38±3 |
| SRN70 | 6.5±0.5 | 20.0±0.5 | 0.8±0.05 | 38±3 |

Materials

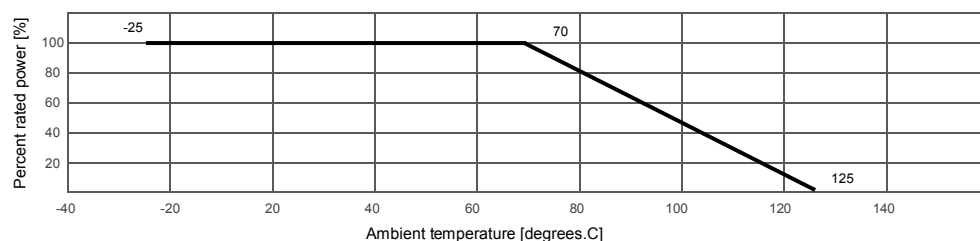
| | |
|--------------------|----------------------|
| Insulation molding | epoxy resin |
| Resistive film | Ni-Cr type |
| Lead wire | annealed copper wire |
| Core | ceramic |

General specifications

| SRN | |
|---------------------|-------------------------|
| Storage temp. range | -10 to +50 degrees C |
| Relative humidity | 85%RH (No condensation) |

Rating

| Product type | Rated power [W] 70 degs.C | Highest usable voltage [V] 70 degs.C | Extreme highest overload voltage [V] | Applicable temperature range [degs.C] |
|--------------|------------------------------|---|--------------------------------------|---------------------------------------|
| SRN55 | 0.1 | 200 | 400 | -25~125 [degs.C] |
| SRN60 | 0.125 | 250 | 500 | |
| SRN65 | 0.25 | 300 | 600 | |
| SRN70 | 0.5 | 350 | 700 | |



Performance

| Performance test contents | | Performance of Correctohm-SRN | | JIS C 5202 |
|---------------------------|--------------------------|----------------------------------|--|------------|
| Electric | Resistance value | Rate value | | 5.1 |
| | T.C.R | Rate value | | 5.2 |
| | Overload (short time) | ±(0.05%+0.01ohm) | | 5.5 |
| | Insulation resistance | 100,000Mohm Min. | | 5.6 |
| Mechanic | Voltage proof | ±(0.05%+0.01ohm) | | 5.7 |
| | Terminal strength | ±(0.02%+0.01ohm) | | 6.1 |
| | Vibration resistance | ±(0.05%+0.01ohm) | | 6.3 |
| | Solder dip resistance | ±(0.05%+0.01ohm) | | 6.4 |
| | Solderability | 95% Min. | | 6.5 |
| Weatherability | Solvent resistance | Appearance not having a problem. | | 6.9 |
| | Low temperature test | ±(0.05%+0.01ohm) | | - |
| | Temperature cycling test | ±(0.05%+0.01ohm) | | 7.4 |
| | Humidity resistance | ±(0.2%+0.01ohm) | | 7.9 |
| | Rated load | ±(0.3%+0.01ohm) | | 7.10 |

Note

* Use to the apparatus which may cause an in-vehicle apparatus (including the train), medical equipment, an aviation apparatus, an apparatus about human life including the ship apparatus and the serious damage;