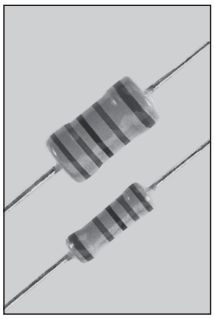
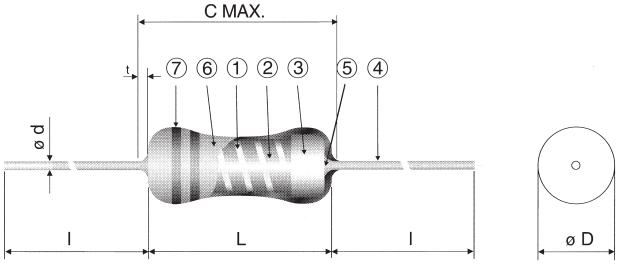
METAL FILM
STANDARD
SN 3A • SN 3D





STRUCTURE

1 Ceramic core
2 Trimmed metal film
3 Steel cap (Cu, Sn plated)
4 Lead wire
5 Welding joint
6 Epoxy resin overcoating
7 Marking

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
SN 3A, SN 3D	Light Grey	Color Code (R-value and tolerance)

All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

SN	3A	D	C	1002	F
PRODUCT CODE	POWER RATING 3A: 1W 3D: 2W	T.C.R. C: ±50ppm/K D: ±100ppm/K L: ±200ppm/K	TERMINATION SURFACE MATERIAL C: SnCu	NOMINAL RESISTANCE D, F: 4 digits G: 3 digits	RESISTANCE TOLERANCE D: (±0.5%) F: (±1%) G: (±2%

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

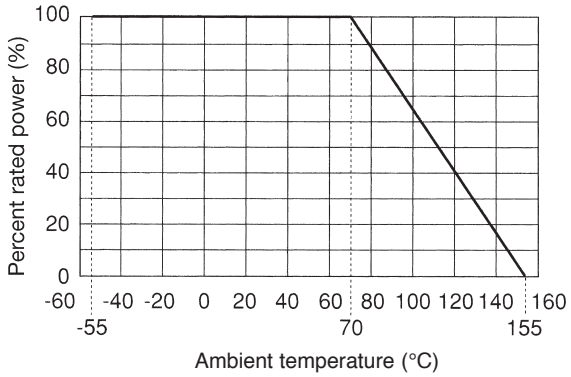
FEATURES

- Metal film resistors for high power
- High precision and low T.C.R. metal film resistor
- Excellent long term stability
- Meets or exceeds IEC 60 115-1, JIS C 5201-1
- Rated ambient temperature: +70°C
- Operating temperature range: -55°C ... +155°C

DIMENSIONS (mm)

TYPE	L	C Max.	ø D	ø d (nom.)	l
SN 3A	14.1 ± 2	18.3	4.8 ± 1	1.0	38 ± 3
SN 3D	16.5 ± 2	21.5	8.4 ± 1		

DERATING CURVE



RATING

TYPE	T.C.R. (ppm/K)	POWER RATING*	MAX. WORKING VOLTAGE	MAX. OVERLOAD VOLTAGE	DIELECTRIC WITHSTANDING VOLTAGE	RESISTANCE RANGE		
						E24 • E192	E24 • E96	E24
						D (±0.5%)	F (±1%)	G (±2%)
SN 3A	C (±50)	1 W	500 V	1000 V	1000 V	–	10 Ω ... 1 MΩ	–
	D (±100)					10 Ω ... 1 MΩ	10 Ω ... 1 MΩ	10 Ω ... 1 MΩ
	L (±200)					–	4.99 Ω ... 10 Ω	1 Ω ... 10 Ω
SN 3D	D (±100)	2 W				10 Ω ... 1.5 MΩ	10 Ω ... 1.5 MΩ	10 Ω ... 1.5 MΩ
	L (±200)					–	–	5.1 Ω ... 10 Ω

* For resistors operated in ambient temperature over +70°C, power rating shall be derated like shown in above „DERATING CURVE".
Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower.

PREFERRED TOLERANCE