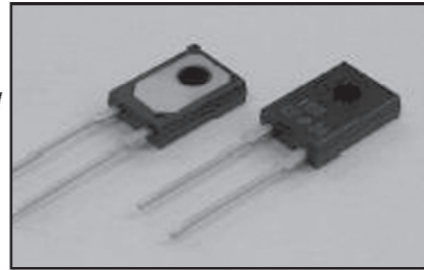


TO126 5W Precision Power Resistor

TNP10P are super-precision power resistors. These models come in TCRs of 10(N), 5(Z) and 2(Y)ppm/°C. Available tolerances of 0.1%(B) and 0.05%(A) are available at operating temperatures of 0~+120°C. Rated power is 5W if attached to circuit board Cu foil and 1W unattached. Excellent for low noise, high frequency and high density jobs. Applications include: Constant current sources for electronic load circuit, LSI tests, measurements, PA systems and motor control.



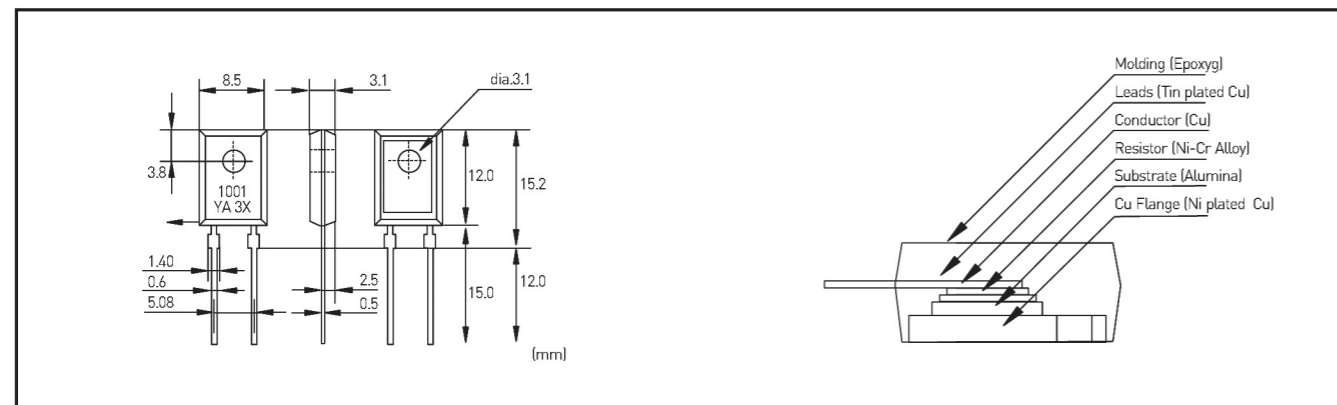
GENERAL SPECIFICATIONS

Resistance Range[Ω]	0.1 ~ 0.99	1 ~ 5	5~51K
TCR [PPM/°C]	±25	±5, ±10, ±25	±5, ±10, ±25
Tolerance	1%, 2%, 5%	0.5%, 1%	0.05%, 0.1%, 0.25%, 0.5%
Nominal Resistance	E24 and any values		
Operation Temp. Range	-55 to +155 °C		
Rating Temperature	+25 °C		
Power Rating	5W (-55 °C to 25 °C flange temperature), 0.5w(in free air)		
Heat Resistance	6.0°C/W		
Max Operating Voltage	300V or $\sqrt{P \cdot R}$		
Inductance	9nH		
Capacitance	1pF		

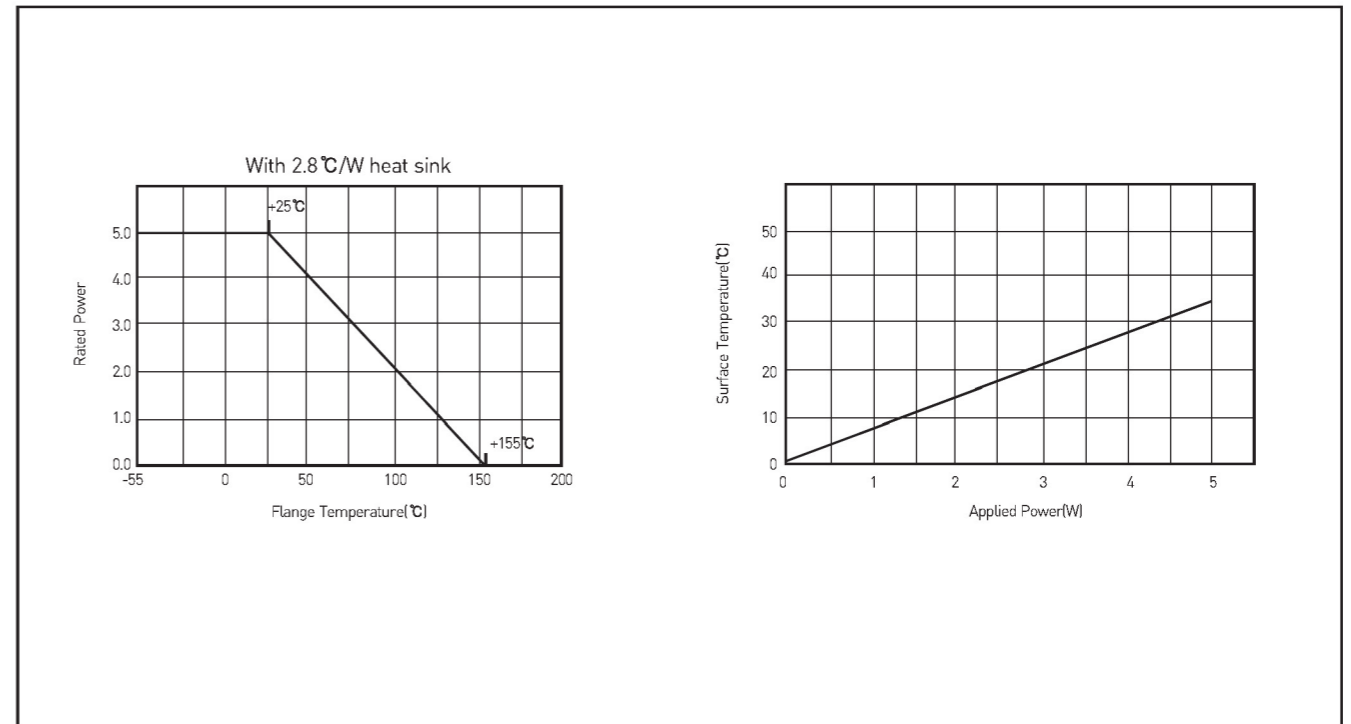
CHARACTERISTICS

Insulation Resistance	[Over 1,000MΩ]	Between terminals and flange.
Dielectric Withstanding Voltage		DC2000V for 60sec.
Short Time Overload	±[0.25%+0.05Ω]	Rating power×2.5, 5 sec, with heat sink.
Moisture Resistance	±[1.0%+0.05Ω]	60°C, 90~95%RH, DC 0.1W, 1000 hours.
Temp. Cycle	±[0.25%+0.05Ω]	-55°C, 30 minutes, +120°C, 30 minutes, 5cycles
Vibration	±[0.25%+0.05Ω]	JISC5202
Soldering Heat	±[0.1%+0.05Ω]	350 ±5°C, 3 sec.
Solderability	Over 3/4 of surface	230 ±5°C, 3 sec.
Terminal Strength	±[0.25%+0.05Ω]	Tension 4.9N, 1~5 secs. Bend 2.45N, 90°C, 2 times.
Load Life	±[1.0%+0.05Ω]	25°C, 90 minutes on, 30 minutes off, 1000 hours

DIMENSIONS [mm] AND STRUCTURE



DERATING CURVE AND TEMPERATURE RISE



ORDERING PROCEDURE EXAMPLE

