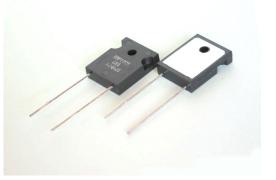
RoHS2

TO247 140W HIGH POWER RESISTORS

RNP-100S (27.5mm lead length)



Features and Applications

Up to 140W high power rating at 25 °C flange temperature cased in TO-247 mold package.

Only 0.9C/W thermal resistance from resistor surface to flange or metal back plate are realized.

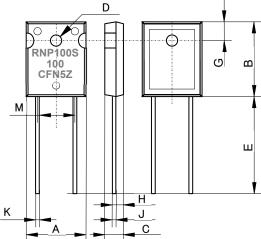
Flexible lead terminal for easy mounting, lead total length 27.5 mm. The lead length of 27.5 mm is indicated by Z00 at the end of the part number.

Insulation sheet is unnecessary, sufficient insulation between circuit and back metal is supported at internal structure.

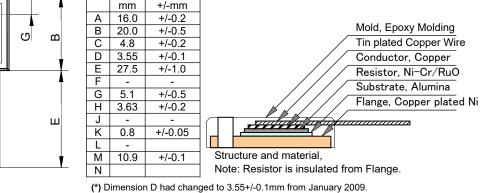
Small size 100W power resistors and thin type fit for higher density design at power electronics.

RNP-100S will be applied to such industrial power equipments and radio frequency circuits as UPS, motor control, power amplifier, RF power amplifier, automated machine control and power supplies.

Dimensions



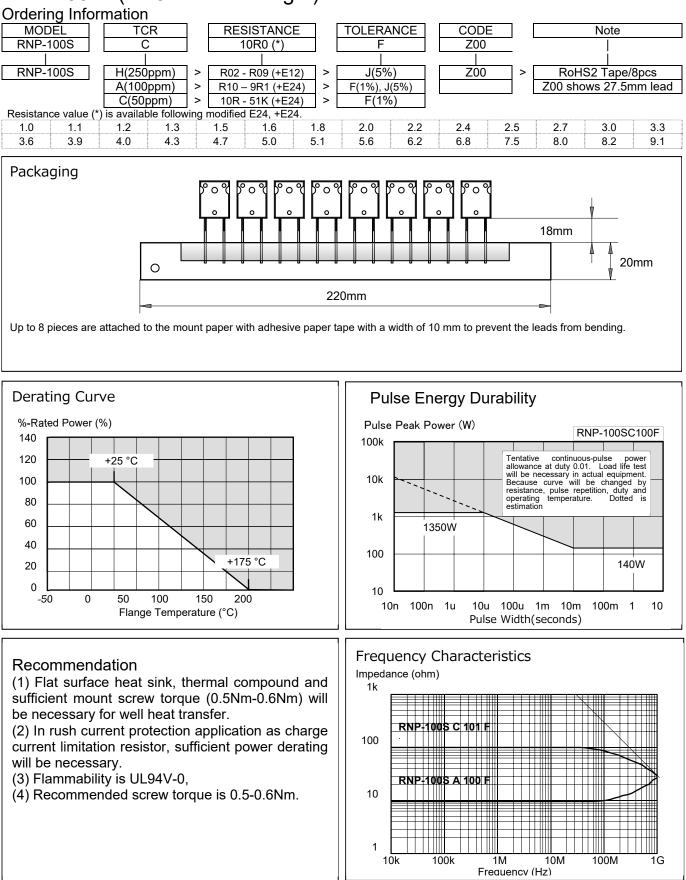
Structure & Materials



Specifications and Performances

Items	Specification			Conditions
Rating Power	140 W			At flange temperature -55 to 25 °C
Rating Power	3.0 W			Free air.
Heat Resistance	0.9 °C/W			From resistor to flange
Resistance Range	0.02-0.09Ω	0.1 - 1Μ Ω	10-51K Ω	
Nominal Resistance	+E12	+E24	+E24	Additionally 1-2-4-8-1.6 and 5.0.
TCR	250ppm/C	100 ppm/C	50 ppm/C	For -55°C to +155 °C
Tolerance	+/-5%	+/-1%, 5%	+/-1%	
Resistor Materials	Thic	< Film	Thin Film	
Capacitance	3.68 pF			
Inductance	12.52 nH			
Operation Temp. Range	-55 - +175 °C			
Max. Applied Voltage	Less than 750V or $\sqrt{P \cdot R}$			Max. operating current 20A
Withstanding Voltage	2500 VAC			60 seconds. 1mA
Load Life	+/- 1.0 %			25°C, 90 min. ON, 30min.OFF, 1000 hours.
Humidity	+/-1.0 %			40°C, 90-95%RH, DC0.1W, 1000hours.
Temperature Cycle	+/- 0.25 %			-55°C, 30 min.,+155°C 30min., 5cycles.
Soldering Heat	+/- 0.25 %			350+/-5 °C, 3seconds,
Solder ability	Over 3/4 of round			245+/-5 °C, 3seconds.
Insulation Resistance	Over 1000 MΩ			Between terminals and metal back plate.
Vibration	+/- 0.25 %			
Flammability	UL94V-0			
Weight		6.4 grams		

TO247 140W HIGH POWER RESISTORS RNP-100S (27.5mm lead length)



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RoHS2