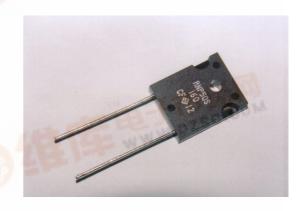
POWER SOLUTION - DBL

Lead Free

TO247 100W HIGH POWER RESISTORS







Features and Applications

100W high power resistor in TO-247 molded package.

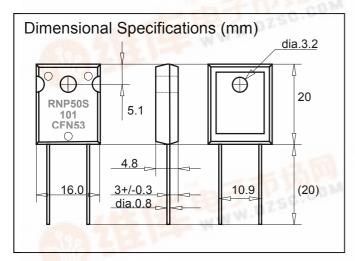
Just 1.3C/W heat resistance between resistor and flange realized.

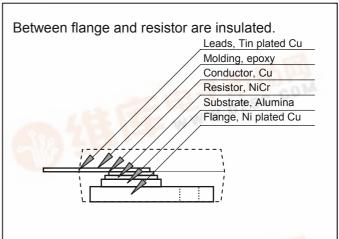
Non-inductive design suits for high frequency circuit and wide band amplifiers.

Small size and thin type suits for high density electronics design.

Complete thermal conduction and heat dissipation design to be available.

AC motor control, IPM, SW power supply, volt power sources, constant current sources, electronic load, precision voltage sources, industrial RF power sources, RF linear amplifiers, and termination resistor of RF circuits.





Specifications and Performances

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Specification Items	Specification-Performance		Test Conditions		
Rating Power	100 Watts		W.D.		
Rating Power	3.0 Watts		Free air.		
Max. Applied Power	100 Watts		Short time overload, 2.5 seconds.		
Resistance Range	0.1-9.1 ohm	10-220 ohm	Over 220 ohms areavailable.		
Nominal Resistance	E12	E24	Additional 2.0 and 5.0.		
TCR	100 ppm/C	50 ppm/C	For -55 to +155C		
Tolerance	+/-5%	+/-1%			
Operation Temp. Range	-55 - +155 C				
Max. Applied Voltage	$\sqrt{P \cdot R}$				
Withstanding Voltage	2500 Volt		60 seconds.		
Load Life	+/-(1.0 %+0.05 ohm)		25C, 90 min.ON, 30min.OFF, 1000hours.		
Humidity	+/-(1.0 %+0.05 ohm)		40C, 90 - 95%RH, DC0.1W, 1000hours.		
Temperature Cycle	+/-(0.25 %+0.05 ohm)		-55C, 30 min., +155C, 30min., 5cycles.		
Soldering Heat	+/-(0.25 %+0.05 ohm)		350+/-5C, 3seconds,		
Solder ability	Över 3/4 of round		230+/-5C, 3seconds.		
Insulation Resistance	Over 1000 Meg ohm		Between terminals and tab.		
Vibration PDF	+/-(0.25 %+0).05 ohm)			

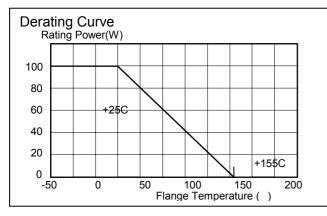
Note: At resistance from 220 to 51kohms rating power shall be restricted in 20W.

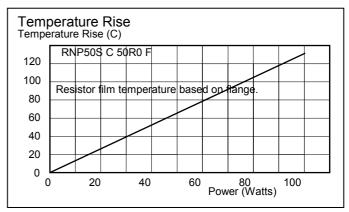
TO247 100W HIGH POWER RESISTORS

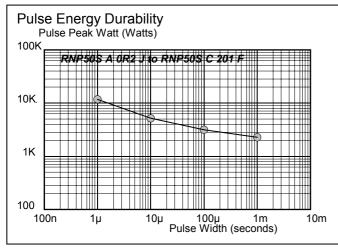
RNP50S

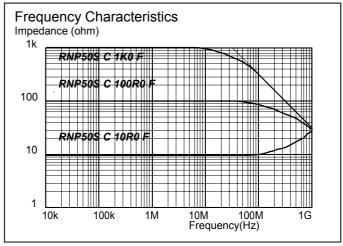
Ordering Information

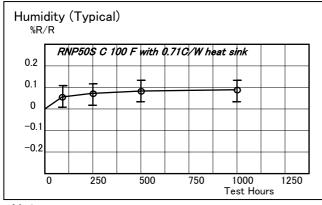
P/N	Туре	TC	Resistance	Tolerance	Additional
RNP50SC120F000	RNP50S	C(50ppm/C)	12ohm	F(1%)	000
RNP50SC120FZ00	RNP50S	C(50ppm/C)	12ohm	F(1%)	Z00 (Z: Lead-free))
RNP50SA0R1J000	RNP50S	A(100ppm/C)	0.1ohm	J(5%)	000
RNP50SA0R1JZ00	RNP50S	A(100ppm/C)	0.1ohm	J(5%)	Z00 (Z: Lead-free))

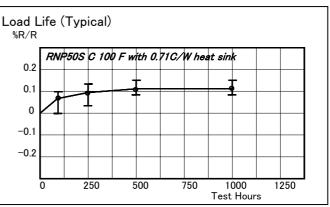












Note:

- (1) Insulating material is unnecessary between flange and resistors, flange and resistor is separated by alumina substrate.
- (2) At surface mount soldering, temperature profile in Flange shall not exceed 220C.
- (3) Using heat conduction grease on surface of flange is recommended.
- (4) Heat resistance between resistor and flange is 1.3 K/W. Heat design will be done, as resistor temperature shall be under 155C in operation.
- (5) 0.1% tolerance resistors and over 220ohm resistance are available, please call factory.