

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NPS 2-T126

Power SMD Resistors







RoHS

- Resistances from 0.0250hm to 10k0hms
- Power Rating to 25Watt
- Resistance Tolerances to ±1%
- TCR to ±100ppm/°C
- Load Stability to 0.5%
- TO-126 Housing (D-Pak)
- Solder Reflow Secure at 260°C / 20s

SPECIFICATIONS

Туре	NPS 2-T126			
Terminals	2			
Resistance Range	0.025 to 0.049Ohms	0.05 to 0.099Ohms	0.1 to 0.99Ohms	10hms to 10k0hms
Power Rating Heatsink Power Rating Simple Pad	25 W 0.6 W			
Thermal Resistance Rthj-c	6.0 C / W			
Tolerances (others upon request)	2% / 5%		1% / 2% / 5%	
Stability	0.5%			
Temperature Coefficient (TCR 50ppm upon request)	±500 ppm/°C	±400 ppm/°C	±300 ppm/°C	±100 ppm/°C
Voltage Proof	2.0 kV DC			
Operating Temperature	-40°C to 175°C			
Resistor Material	Thick Film			
Substrate	Al_2O_3			
Housing	Ероху			
Connector Material	Cu / Ni-flash / lead-free tinned			
Reflow soldering	lead-free soldering 260°C / 20s			

Ordering Information

Part Description: Part Type - Resistance - Tolerance

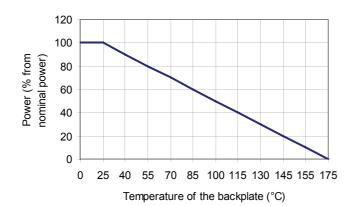
NPS 2-T126 1.1 Ohms 1%

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SPECIFICATIONS (continued)

Derating



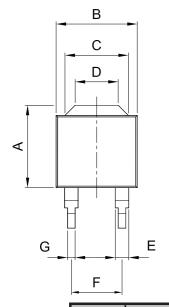
Power Rating Notes -

The NPS Series Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 175°C. To specify an appropriate heatsink use the following formula:

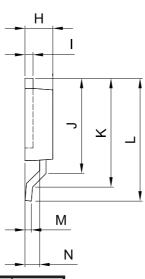
$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

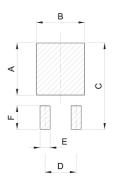
 $\begin{array}{l} R_{_{OH}} = Thermal\ Resistance\ of\ Heatsink\ (\ K/W\) \\ R_{_{OR}} = Thermal\ Resistance\ of\ Resistor\ (\ K/W\) \\ T_{_{MAX}} = Maximum\ Temperature\ of\ Resistor \\ T_{_{A}} = Ambient\ Temperature\ of\ Heatsink\ (\ ^{\circ}C\) \end{array}$

P = Power Through Resistor (W)



Dimensions





Dimension	mm	tol. (±mm)	inches	tol. (±inches)
Α	8.26	0.2	0.33	0.008
В	8.13	0.2	0.32	0.008
С	6.35	0.1	0.25	0.004
D	4.31	0.1	0.17	0.004
E	1.35	0.1	0.05	0.004
F	5.08	0.1	0.20	0.004
G	0.76	0.1	0.03	0.004
Н	2.79	0.1	0.11	0.004
I	0.8	0.1	0.03	0.004
J	9.55	0.2	0.38	0.008
K	10.92	0.2	0.43	0.008
L	12.32	0.2	0.49	0.008
М	0.6	0.1	0.02	0.004
N	1.47	0.1	0.06	0.004

Dimension	mm	inches
Α	8.51	0.335
В	7.87	0.310
С	14.1	0.555
D	5.08	0.200
Е	1.65	0.065
F	3.81	0.150