



FEATURES

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





TABLE 1—SPECIFICATIONS						
TYPE			NPS 2-T126B			
Resistance Range			0.025 to 0.049Ohms	0.05 to 0.099Ohms	0.1 to 0.99Ohms	1.0 to 10kOhms
Power Rating	With heatsink	2	25W			
Tolerances (others upon request)		2	2% / 5%		1% / 2% / 5%	
Thermal Resistance		6	6.0 K/W			
Stability (1000h)		0	0.5%			
Temperature Coefficient		±	±500 ppm/K	±400 ppm/K	±300 ppm/K	±100 ppm/K
Voltage Proof		2	2.0 kVDC			
Operating Temperature Range		-4	-40°C to 175°C			
Resistor Material		Т	Thick Film			
Substrate		Α	Al_2O_3			
Housing		Р	PPS			
Connector Material		C	Cu / Ni-flash / lead-free tinned			
Terminals		2	2 (standard contact S)			
Reflow soldering		le	lead-free soldering 260°C / 20s			

ORDERING INFORMATION

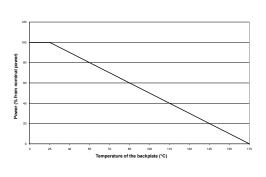
Part Number - Resistance - Contact - Tolerance

NPS 2-T126B 1R100 S 1%

Powertron



FIGURE 1-DERATING



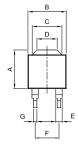
Power Rating Notes -

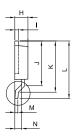
The NPS Series Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 175°C. To specify an appropriate heatsink use the following formula:

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

 $\begin{array}{ll} \mbox{Where:} & \mbox{$R_{_{0H}}$ = Thermal Resistance of Heatsink (K/W) } \\ & \mbox{$R_{_{0R}}$ = Thermal Resistance of Resistor (K/W) } \\ & \mbox{$T_{_{MAX}}$ = Maximum Temperature of Resistor } \\ & \mbox{$T_{_{A}}$ = Ambient Temperature of Heatsink (°C) } \\ & \mbox{P = Power Through Resistor (W) } \\ \end{array}$

FIGURE 2-DIMENSIONS in mm (inches)







		В	
<			O
<u>т</u>			
_		E D	

Dimension		
A ±0.2 (±0.008)	8.26 (0.33)	
B ±0.2 (±0.008)	8.13 (0.32)	
C ±0.1 (±0.004)	6.35 (0.25)	
D ±0.1 (±0.004)	4.31 (0.17)	
E ±0.1 (±0.004)	1.35 (0.05)	
F ±0.1 (±0.004)	5.08 (0.20)	
G ±0.1 (±0.004)	0.76 (0.03)	
H ±0.1 (±0.004)	2.79 (0.11)	
I ±0.1 (±0.004)	0.8 (0.03)	
J ±0.2 (±0.008)	9.55 (0.38)	
K ±0.2 (±0.008)	10.92 (0.43)	
L ±0.2 (±0.008)	12.32 (0.49)	
M ±0.1 (±0.004)	0.6 (0.02)	
N ±0.1 (±0.004)	1.47 (0.06)	

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Dimension	
Α	8.51 (0.335)
В	7.87 (0.310)
С	14.1 (0.555)
D	5.08 (0.200)
E	1.65 (0.065)
F	3.81 (0.150)





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