# mail

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!

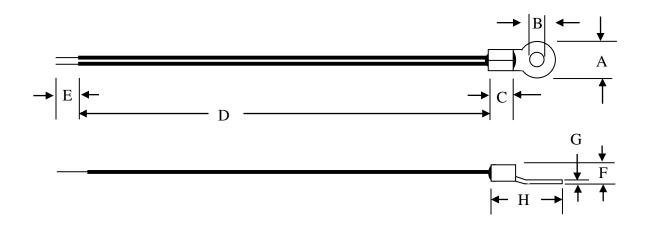


## Contact us

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## Part Number: PANR 103395



### **Electrical Specifications**

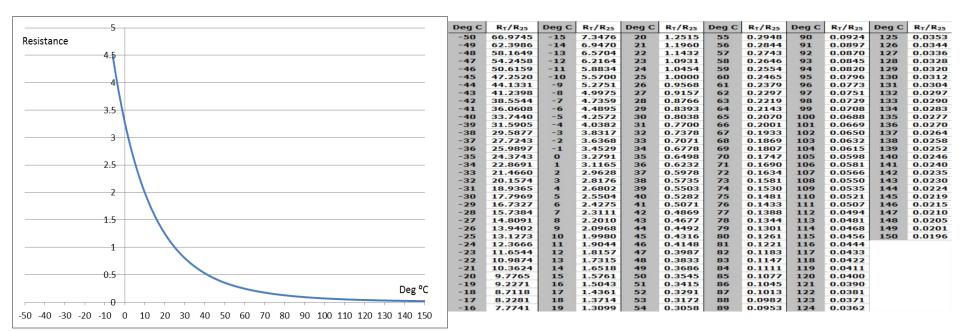
#### **Mechanical Specifications**

Resistance @ 25° C	10 kΩ ±5%
Temperature Coefficient of Resistance	-4.40% / °C
<b>Operating Temperature Range</b>	-50 °C to 150 °C
Dissipation Constant	3 mW / °C
Thermal Time Constant	40 seconds
Material Constant (Beta)	3950 °K ± 2 %
ROHS Compliant	Yes
MSL (moisture sensitivity level)	2

Α	9.5 mm ±0.1mm
В	3.7 mm ±0.1mm
С	6.6 mm ±0.5mm
D	150.0 mm ± 10.0mm
Ε	6.0 mm ± 0.1mm
F	6.0 mm ± 0.5mm
G	1.0 mm ± 0.1mm
Н	18.2 mm ± 0.2mm
Lead Wire Gauge	24 AWG solid Teflon Insulated
Ring Lug	#6 Stud

Rev:	Date:	Change:
0	2/22/16	Issue
1	11/30/16	Increased tolerance for Dimension C

DRAWN BY: C. Terr	у	AMETHERM
DATE: 2/22/16	<b>REV:</b> 1	Circuit Protection Thermistors
ORIG. M.Samii	APPR: M. Samii	NTC THERMISTOR PROBE
SHEET 1 of 2		PANR 103395



Temperature Vs Resistance Curve

The general equation for measurement to reduce error in Temperature by using Stein Hart & Hart equation. T = 1 / a + b (Ln  $R_T / R_{25}$ ) + c b (Ln  $R_T / R_{25}$ )<sup>2</sup> + d (Ln  $R_T / R_{25}$ )<sup>3</sup>

$R_T/R_{25}$ Range	а	b	с	d
3.279 - 66.97	3.357296E-03	2.508334E-04	4.189372 E-06	-6.240867E-08
0.3507-3.363	3.354016E-0-3	2.541522 E-04	3.730922 E-06	-7.881561E-08
0.0637-0.3507	3.361395E-03	2.582266 E-04	5.885012 E-07	-2.823586 E-08
0.0169-0.0637	3.351295E-03	2.500181 E-04	-1.7255607 E-07	-4.356943 E-08

This equation is for Beta 3950 °K

R @0°C/R@50°C = 9.20

 $R@25^{\circ}C / R @125^{\circ}C = 28.30$ 

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