

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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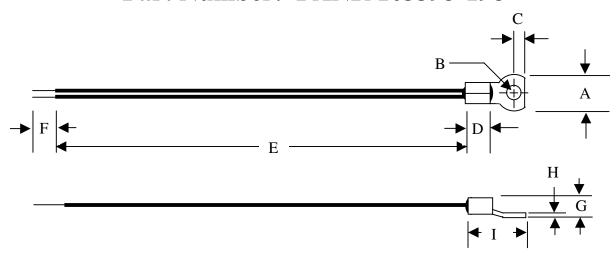
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Part Number: PANR 103395-198



Electrical Specifications

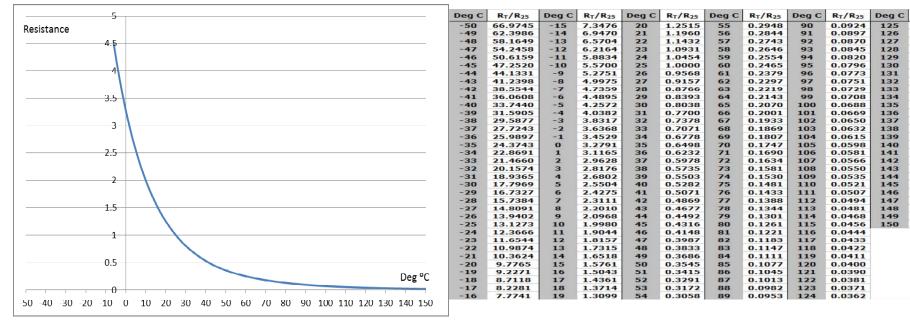
Resistance @ 25° C	10 kΩ ±5%
Temperature Coefficient of Resistance	-4.40% / °C
Operating Temperature Range	-50 °C to 150 °C
Dissipation Constant	3 mW/°C
Thermal Time Constant	40 seconds
Material Constant (Beta)	3950 °K ± 2 %
ROHS Compliant	Yes
MSL (moisture sensitivity level)	2

Mechanical Specifications

9.5mm ±0.1mm
Diameter 3.7mm ±0.1mm
2.54mm Nom
6.6mm ±0.5mm
150.0mm ±10.0mm
6.0 mm Nom
$6.0 \text{mm} \pm 0.5 \text{mm}$
$1.0 \text{mm} \pm 0.1 \text{mm}$
17.0mm Nom
24 AWG solid Teflon Insulated
#6 Stud

Rev:	Date:	Change:
0	4/9/18	Issue

DRAWN BY: C. Terry		<u>AMETHERM</u>
DATE: 4/9/18	REV: 0	Circuit Protection Thermistors
ORIG. M.Samii	APPR: M. Samii	NTC THERMISTOR PROBE
SHEET 1 of 2		PANR 103395-198



Temperature Vs Resistance Curve

The general equation for measurement to reduce error in Temperature by using Stein Hart & Hart equation. $T = 1 / a + b \left(\text{Ln R}_T / \text{R}_{25} \right) + c b \left(\text{Ln R}_T / \text{R}_{25} \right)^2 + d \left(\text{Ln R}_T / \text{R}_{25} \right)^3$

R _T /R ₂₅ Range	a	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

 $R @0^{\circ}C/R@50^{\circ}C = 9.20$

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

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SHEET 2 of 2		PANR 103395-198

RT/R25

125

127

128

130

131

132

133

134

135

136

137

138

139

140

143

144

145

146

147

148

149

0.0353

0.0344

0.0336

0.0328

0.0320

0.0312

0.0304

0.0297

0.0290

0.0283

0.0277

0.0270

0.0264

0.0258

0.0252

0.0246

0.0240

0.0235

0.0230

0.0224

0.0219

0.0215

0.0210

0.0205

0.0201

0.0196