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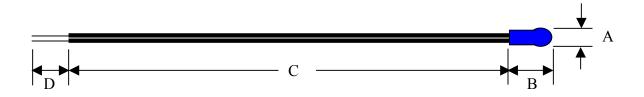
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Part Number: PANE 103395-410



Electrical Specifications:

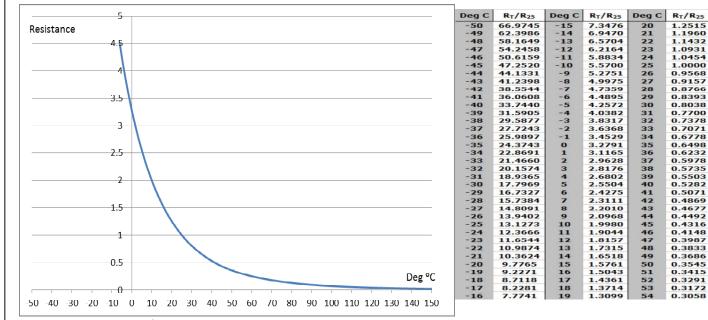
Resistance @ 25°c	10 k $\Omega \pm 5\%$
Temperature Coefficient of Resistance	-4.43 % / °C
Operating Temperature Range	-50°C to + 150°C
Dissipation Constant	7.2mW/°C
Thermal Time Constant	6 seconds
Material Constant (Beta)	3950°K ± 1%
MSL (moisture sensitivity level)	#2

Mechanical Specifications:

A	3.5 mm Max
В	7.5 mm Max
Lead Diameter	28 AWG (0.32 mm)
С	150 mm
D	6.5 mm nom

Rev:	Changes Made:
0	

DRAWN BY: C. Terry		<u>AMETHERM</u>
DATE: 4/6/16	REV: 0	Circuit Protection Thermistors
ORIG. M Samii	APPR: M Samii	NTC THERMISTOR PROBE
SHEET 1 of 2		PANE 103395-410



Temperature Vs Resistance Curve

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

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		PANE 103395-410	

Deg C

55

57

61

62

63

64

65

66

67

68

69

70

75

76 77

78 79 80

81

82

87

88

R_T/R₂₅

0.2948

0.2844

0.2743

0.2646

0.2554

0.2465

0.2379

0.2297

0.2219

0.2143

0.2070

0.2001

0.1933

0.1869

0.1807

0.1747

0.1690

0.1634

0.1581

0.1530

0.1481

0.1433

0.1388

0.1344

0.1301

0.1261

0.1221

0.1183

0.1147

0.1111

0.1077

0.1045

0.1013

0.0982

0.0953

Deg C

90

92

94

96

97

98

100

101

102

103

104

105

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

R_T/R₂₅

0.0924

0.0897

0.0870

0.0845

0.0820

0.0796

0.0773

0.0751

0.0729

0.0708

0.0688

0.0669

0.0650

0.0632

0.0615

0.0598

0.0581

0.0566

0.0550

0.0535

0.0521

0.0507

0.0494

0.0481

0.0468

0.0456

0.0444

0.0433

0.0422

0.0411

0.0400

0.0390

0.0381

0.0371

0.0362

RT/R25

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

Deg C

125

127

128

130

131

132

133

134

135

136

137

138

139

140

143

144

145

146

147

148

149