THERMISTORS

Standard Interchangeable & Point-Matched Series



Interchangeable thermistors have tight tolerances guaranteed to track a specific resistance temperature (R/T) curve over a temperature range.

Point Matched thermistors are tested at a given temperature and guaranteed to be within a specified percentage of the nominal resistance at that temperature.



Features:

Usuable at temperatures from -50°C to 125°C Interchangeable tolerances available as tight as ± 0.10 °C Point-Matched tolerances available as tight as $\pm 1\%$ Durable, easy to handle Proven stability and quality

Specifications:

Available in Beta 0/50 Values of 3889, 3809, 3571,4137, and 3401. (See Resistance/Temperature Charts A, B, C, D, and K) Tolerances:

Interchangeable: $\pm 0.10^{\circ}$ C, $\pm 0.20^{\circ}$ C, $\pm 0.50^{\circ}$ C, $\& \pm 1.00^{\circ}$ C Available over Temperature Range of -20^{\circ}C to 100°C depending on tolerance (See Chart Below)

Point Matched: ±1.0%, ±2%, ± 5%, & ±10%

Dissipation constant:

2mW/° C in still air

13mW/° C in stirred oil

Thermal time constant: 0.75 sec. typical in stirred oil Thermistor coating: Epoxy, 0.095" max. O. D. typical Lead Materials: Uninsulated tinned copper, AWG 30 (Other sensor configurations & specifications available upon request)

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ALPHA TECHNICS THERMISTOR PART NUMBERING SYSTEM

				Toleanice:	
		-		Α	\pm 1.0 °C
	XX A XXXX - A	X Tolerance Suffix		В	± 0.5 °C
		(See detailed explanatio	n	С	± 0.2 °C
Load Type and Coating Mat		e co ucunou en primuo		D	± 0.1 °C
Leau Type and Coaung Man	lenar	Resistance @ 25°C	Example: 14A1002 - C3	Temper	rature Range:
				. 1	+20 °C to 45 °C
- Numerical characters	R/T Curve ()	First 3 digits significant;	14 = AWG 30, tinned copper, epoxy	coating 2	-20 °C to 50 °C
	(Refer to ratio tables) 4th	n digit = # of zeros to follow)	A = Curve "A"	3	0 °C to 70 °C
= Alphanumerical characters			1002 = 10,000 Ohms @ 25°C	4	0 °C to 100 °C
			$C3 = \pm 0.2^{\circ}C$ from 0°C to 70°C	8	0 °C to 50 °C
			D 4 0/20	Televenee	
PartNumber	Resistance in OHMS	@ 25°C R/ I Curve	Beta U/5U	Tolerance	
14A1002-C3	10,000	Α	3889	±0.2°C 0 to	70°C
	,				
		_			_
14B3002-1	30,000	В	3809	±1% @ 25°	С
1401000 D4	10.000	G	0574	0.500.0.	10000
14C1002-B4	10,000	C	3571	± 0.5 °C 0 to	100°C
1400000	00,000	D	4107	00/ 0050	~
14D2002-2	20,000	D	4137	$\pm 2\% @25$	
14120001 40	0000	V	9401	1.00004-	500C
14K2001-A8	2000	ĸ	3401	$\pm 1.0^{\circ}$ C 0 to	50°C
1489951 5	9959	۸	3880	15% @95°	-
14A22J1-J	2232	A	3009	±J/0@23(J
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Alpha Technics

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