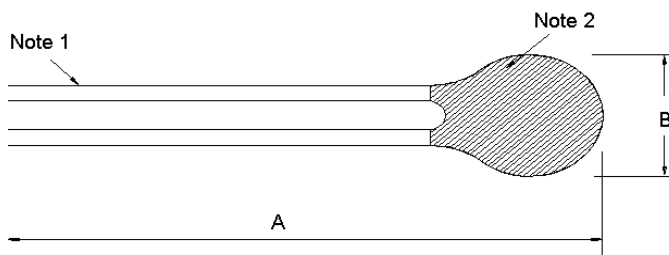




Dimensions



	Dimensions	
	A	B
	46 ± 5mm	2.4mm Max
Note 1	30 AWG Solid Tin Plated Copper Leads	
Note 2	Stycast 2850ft Epoxy	

SERIES III THERMISTORS

SPECIFICATIONS

- 2.2 to 100K Ohms Resistance @25°C
- Thermally Conductive Epoxy Coating
- Available in Custom Tolerances
- 30 AWG Solid Tin Plated Copper Leads

SERIES III THERMISTORS

The BetaCURVE chip is soldered to 30 AWG tin plated copper leads and encapsulated in Stycast epoxy resin.

FEATURES

- 2.2 to 100K Ohms Resistance @25°C
- Proven Stability and Reliability
- 30AWG Solid Tin Plated Copper Leads
- Thermally Conductive Epoxy Coating
- Temperature Range -40°C to +125°C
- RoHS Compliant

APPLICATIONS

- Tight tolerance instrumentation
- Temperature sensing, control and compensation
- Assembly into probes for a wide variety of applications
- General instrumentation applications

PRODUCT DEFINITION

Part Number	Color Coding	Resistance [Ω] @ +25°C	Tolerance from 0 to +70°C	Alpha Value @ +25°C	Beta Value 25/85	Beta Tolerance	Dissipation Constant in still air @ +25°C	Time response (Stirred Oil)
2.2K3A1W2	Brown	2,252	±0.2°C	-4.39 %/ °C	3976	±0.5%	2 mW/°C	<1.3 second
3K3A1W2	Red	3,000	±0.2°C	-4.39 %/ °C	3976	±0.5%	2 mW/°C	<1.3 second
5K3A1W2	Orange	5,000	±0.2°C	-4.39 %/ °C	3976	±0.5%	2 mW/°C	<1.3 second
10K3A1W2	Yellow	10,000	±0.2°C	-4.39 %/ °C	3976	±0.5%	2 mW/°C	<1.3 second
10K4A1W2	Black	10,000	±0.2°C	-4.04 %/ °C	3694	±0.5%	2 mW/°C	<1.3 second
30K5A1W2	White	30,000	±0.2°C	-4.30 %/ °C	3942	±0.5%	2 mW/°C	<1.3 second
30K6A1W2	Green	30,000	±0.2°C	-4.68 %/ °C	4261	±0.5%	2 mW/°C	<1.3 second
50K6A1W2	Blue	50,000	±0.2°C	-4.68 %/ °C	4261	±0.5%	2 mW/°C	<1.3 second
100K6A1W2	Violet	100,000	±0.2°C	-4.68 %/ °C	4261	±0.5%	2 mW/°C	<1.3 second

RELIABILITY DATA

Test	Standard	Test conditions	ΔR25/R25	Remarks
Storage in dry heat	IEC 60068-2-2	High temperature storage @+100°C. Duration: 1000 h	<0.5%	No mechanical damage
Storage in dry heat	IEC 60068-2-2	High temperature storage @+125°C. Duration: 1000 h	<1%	No mechanical damage
Storage in damp heat, steady state	IEC60068-2-78	Ambient Conditions: Temperature: +40°C. Relative humidity 93% Duration: 56 days	<1%	No mechanical damage
Rapid temperature cycling	IEC60068-2-14	Lower test temperature: -40°C Upper test temperature: +125°C Number of cycles: 1000	<1%	No mechanical damage
Endurance		Pmax: 60mW Duration: 1000 h	<2%	No mechanical damage

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
1711 139th Lane NW
Andover, MN 55304
Tel: +1 763 689 4870
Fax: +1 763 689 5033
customer care.ando@te.com

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Ballybrit Business Park
Galway Ireland
Tel : +353-91-753238
Fax : +353-91-770789
Email: customer care.glwy@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
No. 368 Wulian 1st Road
Gongxing Town
Shuangliu, Chengdu
Sichuan, 610200
China
Tel: +86 (0) 28 8573 9088
Fax: +86 (0) 28 8573 9070
Email: customer care.chdu@te.com

te.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties (MEAS), American Sensor Technologies (AST), TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.