

Vishay BCcomponents

NTC Thermistors, Steel Capped Sensors

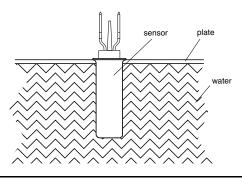


QUICK REFERENCE DATA		
PARAMETER PARAMETER	VALUE	UNIT
Resistance value at 25 °C	12K	Ω
Tolerance on R ₂₅ -value	± 4.0	%
B _{25/85} -value	3730	K
Tolerance on B _{25/85} -value	± 1.5	%
Operating temperature range at zero dissipation	-25 to +110	°C
Max. short term operation	130	
Resistance value at 0 °C	35 875 ± 7 %	
Resistance value at 85 °C	1475 ± 3 %	Ω
Resistance value at 100 °C	963 ± 4.2 %	
Maximum power dissipation at 55 °C	250	mW
Dissipation factor		
in still air (for information only)	7.5	mW/K
in still water (for information only)	18	
Thermal time constant in still air (τ)	285	
Response time (1)	13 to 16	S
Temperature gradient (2)	≤ 0.02	K/K
Minimum dielectric withstanding voltage between terminals and capsule during		V _{RMS}
1 min	1500	- 11110
10 s	1650	
Minimum insulation resistance between terminals and capsule at 100 V _{DC}	100M	Ω
Weight	≈ 8	g

Notes

- (1) The response time is the time necessary to change 63.2 % of the total difference between the initial and the final body temperature, when subjected to a step function change in ambient temperature from 25 °C air to boiling water at 100 °C
- (2) The temperature gradient is the difference per degree Celsius between the true temperature of the liquid (water) and the temperature measured by the sensor

METHOD OF APPLICATION



FEATURES

- · High mechanical strength
- FASTON connectors for easy connection
- Accuracy of ± 1 °C between 25 °C and 85 °C







RoHS COMPLIANT

APPLICATIONS

- Sensors for water temperature control in, for example:
 - Washing machines
 - Dish washers
 - Heat pumps
 - Electric boilers

DESCRIPTION

These thermistors have a negative temperature coefficient. The device consists of a soldered ceramic chip which is mounted in a capsule of stainless steel SS304 and provided with two 6.3 mm tinned spade connectors.

MOUNTING

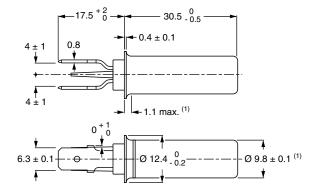
Connect to two FASTONS 6.3 x 0.8 (0.25" x 0.032") receptacle or equivalent and mounted with a watertight sealing.

DESIGN-IN SUPPORT

For complete curve computation, visit: www.vishay.com/thermistors/ntc-curve-list/

DIMENSIONS in millimeters

Component outline





Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Revision: 13-Jun-16 1 Document Number: 91000

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for NTC (Negative Temperature Coefficient) Thermistors category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

118-253FAJ-P01 121-202EAC-P01 123-802EAJ-P01 128-105NDP-Q02 129-202VME-S01 135-503LAD-J01 B57250V2473F560

B57620C472K962 B57620C5103J062 B57621C5102J062 A1004SG22P0 192-103LPR-A01 199-303KAF-A02 30054-4 B57471V2474H062

B57620C5102J062 B57620C5223J062 500-52AA04-101 526-31AA19-104 526-31AN12-202 103AT-5-1P-FT 10K3A542I 111-802EAJ-901

112-103FAG-H02 112-104KAG-B01 11028414-00 111-182CAG-H01 112-103FAF-H01 112-104KBF-F01 118-202CAJ-P01 526-31AA79-102 B57442V5103J62 517-59CL01-202 B57401V2103H62 B57621C5472J62 11032565-00 194303KEVA01 NTCACAPE3C90193

B57359V2224J260 B57343V5103J360 NXRT15WB473FA1B040 50070974-003-01 189-602LDR-A01 B57621C5472K062 135-105QAF-J02 B57421V2153J062 B57471V2684H062 B57471V2333H062 126-153YJC-B01 NTCS0603E3333FHT