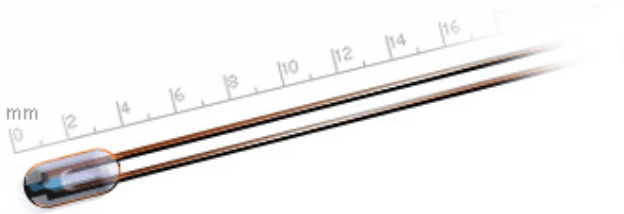
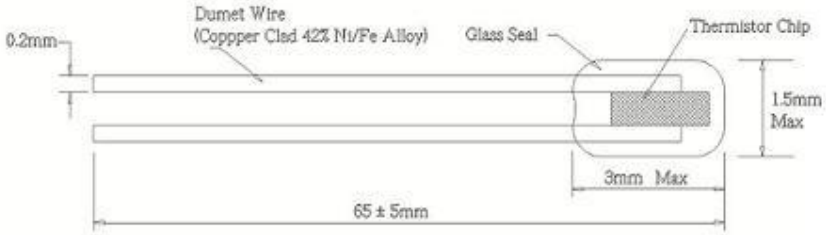
Radial Glass Thermistor – B Series

Introduction



The BetaTHERM Glass Series NTC Thermistors are the perfect choice for applications that require high stability and performance in harsh environmental conditions. The Glass A Series uses a hermetic glass encapsulation to allow improved resistance to humid environments. With an operating temperature range of -55DEGC to +250DEGC, these NTC Glass Sensors are suitable for elevated temperatures or applications where rapid thermal cycling are present. With resistance tolerances of +-1%, +-2%, +-3% or +-5%, these NTC glass thermistors are suitable for the most demanding requirements

. Shape and Dimensions



Features

- Operating temperature range from -55°C to +250°C
- Glass hermetic encapsulation with high resistance to humid environments
- High-temperature stability
- Available in ±1%, ±2%, ±3%, ±5% or ±10% tolerance at +25°C
- Fast response time
- Dissipation constant (D.C) = ~0.8mW/°C in still air.

Applications

- Refrigeration control
- In environments where thermal shock and humidity are present
- Air conditioning systems
- Hot water boiler systems
- Temperature measurement and control
- Sensor for engine temperature control

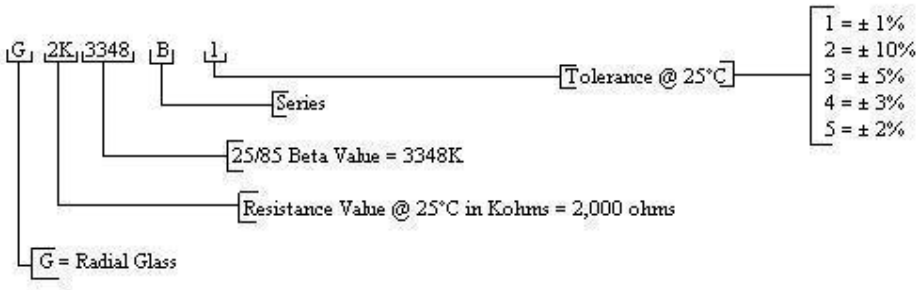
Measurement Specialties Inc.
Tel: +001 508 8420516 , Fax: +001 508 8420342
E-Mail: sales@betatherm.com
Http://www.meas-spec.com

Measurement Specialties/Asian Headquarters
Tel: +86 755 83301004 83583797, Fax: +86 755 83306797
E-Mail: Sale.china@meas-spec.com
Http://www.meas-spec.com.cn

measurement SPECIALTIES

BetaTHERM Sensors TEMPERATURE SOLUTIONS

Part Numbering System



Electrical Specifications							
Part Number	**Resistance @ +25°C**	**Tolerance @ +25°C**	**Beta Value**	**Beta Tolerance**	**Dissipation Constant (Still Air @ +25°C)**	**T.C. Constant (Still Air)**	**T.C. Constant (Stirred Oil)**
G2K3348B1	2,000Ω	± 1%	3348	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G2K3499B1	2,000Ω	± 1%	3499	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G5K3976B1	5,000Ω	± 1%	3976	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G10K3435B1	10,000Ω	± 1%	3435	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G10K3694B1	10,000Ω	± 1%	3694	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G10K3976B1	10,000Ω	± 1%	3976	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G30K3942B1	30,000Ω	± 1%	3942	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G50K3976B1	50,000Ω	± 1%	3976	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G100K4000B1	100,000Ω	± 1%	4000	± 2%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G200K4261B1	200,000Ω	± 1%	4261	± 3%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds
G500K4261B1	500,000Ω	± 1%	4261	± 3%	0.8mW/°C Typ.	4 ~ 5 Seconds	0.3 ~ 0.4 Seconds

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Reliability Information

Reliability Tests	Standard	Test Condition	Delta R
Storage in Dry Heat	IEC 60068-2-2	Storage temperature: + 250°C Duration: 1000 hours	< 3%
Storage in Damp Heat	IEC 60068-2-3	Temperature of air is 50°C & RH 95% Duration: 56 days.	< 2%
Rapid Temperature Cycling	IEC 60068-2-14	Lower Test Temperature -55°C Upper Test Temperature +200°C Number of Cycles 1000	< 2%

For details on the minimum order quantity (MOQ) of this product, please contact BetaTHERM Sensors or your local BetaTHERM Sensors representative

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