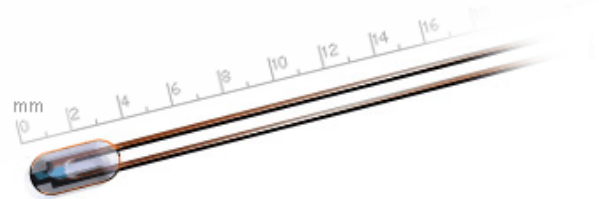


Radial Glass Thermistor – A Series

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 -55°C to +250°C, 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

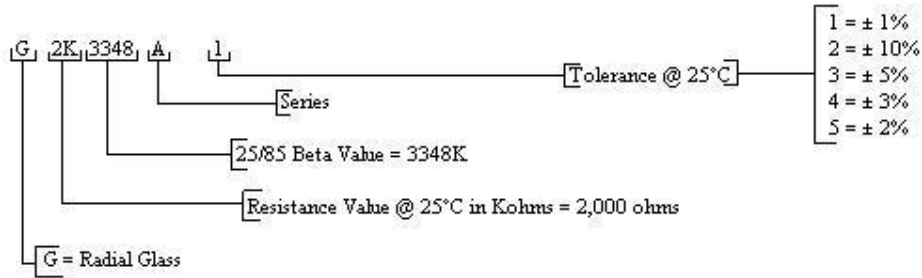


- Features**
- Operating temperature range from -55°C to +250°C
 - Glass hermetic encapsulation with high resistance to humid environments
 - High-temperature stability
 - Available in ±1%, ±2%, ±3% or ±5% tolerance at +25°C
 - Fast response time
 - Dissipation constant (D.C) = ~1.3mW/°C in still air.

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



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)
G2K3348A1	2000	± 1%	3348	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G2K3499A1	2000	± 1%	3499	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G5K3976A1	5000	± 1%	3976	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G10K3435A1	10000	± 1%	3435	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G10K3694A1	10000	± 1%	3694	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G10K3976A1	10000	± 1%	3976	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G30K3942A1	30000	± 1%	3942	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G50K3976A1	50000	± 1%	3976	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G100K4000A1	100000	± 1%	4000	± 2%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G200K4261A1	200000	± 1%	4261	± 3%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds
G500K4261A1	500000	± 1%	4261	± 3%	1.3mW/°C Typ.	11 ~ 12 Seconds	0.9 ~ 1.1 Seconds



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