

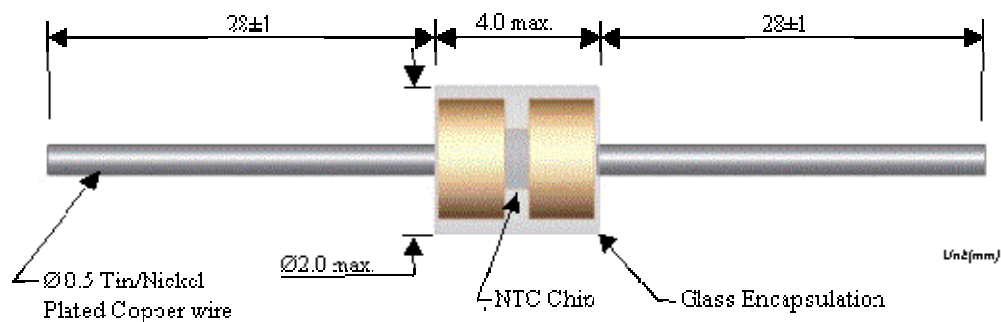
DO-35 Series Thermistor

Introduction



The rugged construction of the DO-35 package is ideally suited for applications which cover the temperature range from -40°C to $+250^{\circ}\text{C}$ with leads that are suitable for welding or soldering. The glass package hermetically seals to the metal leads which protects the thermistor element from extreme environmental conditions. The axial leads make this device a perfect choice for PC board mounting and the leads are plated giving a temperature rating to $+250^{\circ}\text{C}$. The standard devices are specified as $\pm 1\%$, $\pm 3\%$ and $\pm 5\%$ at 25°C .

Mechanical Details



Features

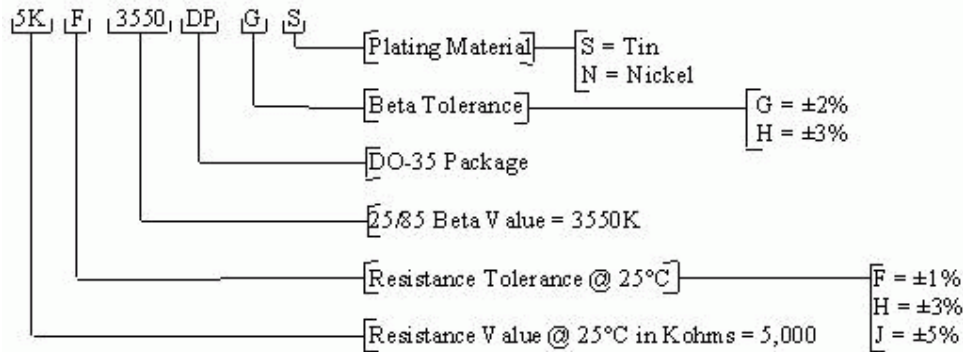
- PC board mounting
- Hermetically sealed element. Glass metal package.
- Axial leads
- High temperature devices for applications to $+250^{\circ}\text{C}$
- Time constant - 8 seconds in air
- Dissipation constant - $2.5\text{mW}/^{\circ}\text{C}$ in air at 25°C
- RoHS Compliant

Applications

- Low cost probe assemblies
- High temperature printer ink sensors
- Consumer Electronics
- High temperature high-speed manufacturing
- Printed circuit board temperature sensing
 - Air Conditioning



Part Numbering System



Electrical Specifications

BetaTherm Part Number	Resistance @ +25°C	Tolerance @+25°C	Beta Value 25/85	Beta Tolerance (Still Air @ +25°C)	Dissipation Constant (Still Air) TYP	T.C. Constant (Still Air)
5KF3550DPGS*	5,000Ω	± 1%	3550	± 2%	2.5mW/°C	7 Secs
10KF3270DPGN	10,000Ω	± 1%	3270	± 2%	2.5mW/°C	7 Secs
10KF3435DPGS*	10,000Ω	± 1%	3435	± 2%	2.5mW/°C	7 Secs
10KF3550DPGN	10,000Ω	± 1%	3550	± 2%	2.5mW/°C	7 Secs
10KF3700DPGN	10,000Ω	± 1%	3700	± 2%	2.5mW/°C	7 Secs
10KF3950DPGN	10,000Ω	± 1%	3950	± 2%	2.5mW/°C	7 Secs
10KF3960DPGN	10,000Ω	± 1%	3960	± 2%	2.5mW/°C	7 Secs
10KF3975DPGS*	10,000Ω	± 1%	3975	± 2%	2.5mW/°C	7 Secs
20KF3960DPGN	20,000Ω	± 1%	3960	± 2%	2.5mW/°C	7 Secs
50KF3950DPGN	50,000Ω	± 1%	3950	± 2%	2.5mW/°C	7 Secs
50KF3960DPGN	50,000Ω	± 1%	3960	± 2%	2.5mW/°C	7 Secs
100KF3975DPGN	100,000Ω	± 1%	3975	± 2%	2.5mW/°C	7 Secs
100KF4300DPGN	100,000Ω	± 1%	4300	± 2%	2.5mW/°C	7 Secs
200KF4000DPGN	200,000Ω	± 1%	4000	± 2%	2.5mW/°C	7 Secs

*Parts only available in Tin Plating

Plating Information

Material Type	Operating Temperature
Tin Plating	-40°C to +200° C
Nickel Plating	-40°C to +250° C



BetaTHERM Sensors
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Reliability Information

Reliability Tests	Standard	Test Condition	Delta R
Storage in Dry Heat	IEC 60068-2-2	Storage temperature: 200°C & 250°C Duration: 1000 hours	< 3%
Storage in Damp Heat	IEC 60068-2-3	Temperature of air is 40°C & RH 93% Duration: 56 days.	< 2%
Rapid Temperature Cycling	IEC 60068-2-14	Lower Test Temperature -55°C Upper Test Temperature +200°C Number of Cycles 50	< 2%

Packaging Information

- All parts supplied loose
- Parts are available on Tape and Reel upon customer request

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

sale.china@meas-spec.com



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