



T H E R M O M E T R I C S
A COMMITMENT TO EXCELLENCE

NTC Diode

Thermometrics

Thermistors



A range of NTC chip thermistors in DO-35 style glass package (diode outline) with axial solder-coated copper-clad steel wires.

- Designed for accurate temperature measurement, control and compensation
- Tight tolerances on resistance and B value
- Operation up to 482°F (250°C) with excellent stability
- Glass body provides hermetic seal and voltage insulation and excellent stability
- Designed for cost effective solid state sensor
- Lead-wires metallurgically bonded to thermistor element for improved reliability (Type GE only)
- Resistant to corrosive atmospheres and harsh environments
- Available on axial bandolier to IEC-286-1/ EIA-468A and packet taped to EIA RS-481 for MELF.
- Also available loose-packed with axial, radial and SMD wire forms
- Suitable for automotive, telecom (battery packs), HVAC and white goods applications
- Temperature sensing for household appliances such as rice cookers, electronic ranges, ovens, etc.
- Temperature sensing for industrial products such as pharmaceuticals, chemicals, food, etc. components.

Amphenol

Advanced Sensors

Type DK Specifications

Chip thermistor in DO-35 glass package

Options

- Other resistance values within the ranges shown; e.g. code DKA302*2 for 3000 Ω $\pm 2\%$ at 77°F (25°C)
- Reference temperatures in the range 0°F to 302°F (-18°C to 150°C)
- Operation to 572°F (300°C) (no solder coating on wires)
- Wire lengths 0.16 in to 1.26 in (4 mm to 32 mm)
 ± 0.04 in (± 1 mm) for DK-N; up to 1.02 in (26 mm) for DK-H

Coding

Replace * in the codes shown below as follows:

- Axial, loose-packed: N
- Axial, bandoliered: B
- Radial, loose-packed: H
- Surface mount, loose-packed: M



NTC Type DK wires should not be bent within 0.08 in (2 mm) of glass body

Data

- Operating temperature: -40°F to 482°F (-40°C to 250°C)
- Thermal time constant: 7 seconds (cooling in air)
- Dissipation factor: 3.0 mW/K
- Mass: 0.2 g
- Packing/MOQ: 1000/box (loose),
5000/reel (bandoliered)

R25 Ω	Material system	B 25/85 K	Code R25 $\pm 2\%$	Code R25 $\pm 3\%$	Code R25 $\pm 5\%$	Code R25 $\pm 10\%$
2000	2	3540 $\pm 1\%$	DKA202*2	DKA202*3	DKA202*5	DKA202*10
5000	2	3540 $\pm 1\%$	DKA502*2	DKA502*3	DKA502*5	DKA502*10
10,000	2	3540 $\pm 1\%$	DKA103*2	DKA103*3	DKA103*5	DKA103*10
10,000	5A	3730 $\pm 2\%$		DKC103*3	DKC103*5	DKC103*10
12,000	5A	3730 $\pm 2\%$	DKC123*2	DKC123*3	DKC123*5	DKC123*10
10,000	3	3960 $\pm 1\%$	DKF103*2	DKF103*3	DKF103*5	DKF103*10
20,000	3	3960 $\pm 1\%$	DKF203*2	DKF203*3	DKF203*5	DKF203*10
30,000	3	3960 $\pm 1\%$	DKF303*2	DKF303*3	DKF303*5	DKF303*10
50,000	3	3960 $\pm 1\%$	DKF503*2	DKF503*3	DKF503*5	DKF503*10
100,000	3	3960 $\pm 1\%$	DKF104*2	DKF104*3	DKF104*5	DKF104*10
200,000	G	4263 $\pm 2\%$			DKG204*5	DKG204*10
500,000	D	4573 $\pm 2\%$			DKD504*5	DKD504*10
1,000,000	D	4573 $\pm 2\%$			DKD105*5	DKD105*10

See separate tables for resistance-temperature data..
Consult factory for additional tolerance requirements.

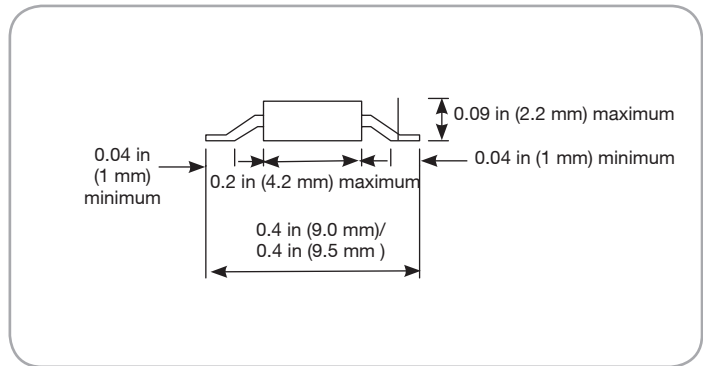
Type DKM

Specifications

Glass encapsulated SMD thermistor

Description

A range of thermistors in DO-35 style glass package (diode outline formed for surface lead-wires and applications) with solder-coated copper-clad steel lead-wires.



NTC Type DKM wires should not be bent within 0.08 in (2 mm) of glass body

Options

- Other resistance values within the ranges shown; e.g. code DKA302M2 for 3000 Ω $\pm 2\%$ at 77°F (25°C)
- Reference temperatures in the range 32°F to 302°F (0°C to 150°C)
- For tape and reel, add suffix “AB”
- Operation to 572°F (300°C); no solder coating on lead-wires

Data

- Operating temperature: -40°F to 482°F (-40°C to 250°C)
- Thermal time constant: 7 seconds (cooling in air)
- Dissipation factor: 3.0 mW/K
- Mass: 0.2 g
- Packing/MOQ: 1000/box (loose)

R25 Ω	Material System	B 25/85 K	Code R25 $\pm 2\%$	Code R25 $\pm 3\%$	Code R25 $\pm 5\%$	Code R25 $\pm 10\%$
2000	2	3540 $\pm 1\%$	DKA202M2	DKA202M3	DKA202M5	DKA202M10
5000	2	3540 $\pm 1\%$	DKA502M2	DKA502M3	DKA502M5	DKA502M10
10,000	2	3540 $\pm 1\%$	DKA103M2	DKA103M3	DKA103M5	DKA103M10
10,000	5A	3730 $\pm 2\%$		DKC103M3	DKC103M5	DKC103M10
10,000	3	3960 $\pm 1\%$	DKF103M2	DKF103M3	DKF103M5	DKF103M10
20,000	3	3960 $\pm 1\%$	DKF203M2	DKF203M3	DKF203M5	DKF203M10
30,000	3	3960 $\pm 1\%$	DKF303M2	DKF303M3	DKF303M5	DKF303M10
50,000	3	3960 $\pm 1\%$	DKF503M2	DKF503M3	DKF503M5	DKF503M10
100,000	3	3960 $\pm 1\%$	DKF104M2	DKF104M3	DKF104M5	DKF104M10
200,000	G	4263 $\pm 2\%$			DKG204M5	DKG204M10
500,000	D	4573 $\pm 2\%$			DKD504M5	DKD504M10
1,000,000	D	4573 $\pm 2\%$			DKD105M5	DKD105M10

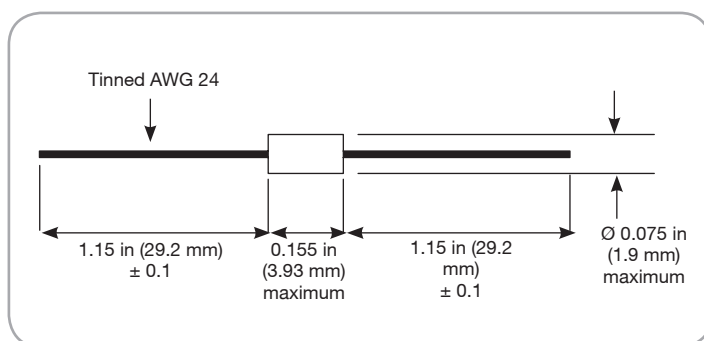
See separate tables for resistance-temperature data.
Consult factory for additional tolerance requirements.

Type GE Specifications

Glass encapsulated DO-35 package

Options

- For reel taping
- Nickel leads for welding
- Other resistances in the range 250 Ω to 5 M Ω
- Other tolerances, tolerances at other temperatures
- Alternative leads lengths, lead materials
- Can be expanded to 572°F (300°C) with nickel leads



NTC Type GE dimensions

Data

- Standard resistance tolerance: $\pm 10\%$ @ 77°F (25°C)
- Dissipation constant: 3.0 mW/K
- Time constant: 7 seconds
- Operating range: -58°F to 400°F (-50°C to 204°C)
- Lead Wires metallurgically bonded to thermistor element for improved reliability

R ₀ @25°C (Ω)	Material System	Beta 25/85	Type Number
250	GE5.5*	2983	AL03006-165.9-55-G1
500	GE5.5*	2983	AL03006-331.8-55-G1
1K	GE7.3	3499	AL03006-624-73-G1
2K	GE7.3	3499	AL03006-1248-73-G1
2786	GE10.1	4102	AL03006-1576-101-G1
3K	GE7.6	3553	AL03006-1847-76-G1
4K	GE7.6	3553	AL03006-2463-76-G1
5K	GE7.6	3553	AL03006-3079-76-G1
10K	GE9.7A	3992	AL03006-5818-97-G1
20K	GE9.8	3974	AL03006-11.7K-98-G1
30K	GE9.8	3974	AL03006-17.53K-98-G1
50K	GE9.7B	3952	AL03006-29.1K-97-G1
100K	GE9.7B	3952	AL03006-58.2K-97-G1
200K	GE12.3	4365	AL03006-111.3K-123-G1
500K	GE13.8	4567	AL03006-269.8K-138-G1
1M	GE14.5	4661	AL03006-535K-145-G1
5M	GE16.4	4848	AL03006-2.6M-164-G1

*maximum operating temperature 302°F (150°C)

Type MELF Specifications

Glass encapsulated SMD thermistor

Description

Hermetically sealed, glass encapsulated thermistor in SOD-80 SMD package.

Options

- Pocket Taping
- Other resistances in the range 250 Ω to 5 M Ω available
- Other tolerances, tolerances at other temperatures



NTC Type MELF dimensions

Data

- Standard resistance tolerance: $\pm 10\%$ @ 77°F (25°C)
- Dissipation constant: 3.0 mW/°C
- Time constant: 7 seconds
- Operating range: -58°F to 400°F (-50°C to 204°C)

R ₀ @25° C (Ω)	Material System	Beta 25/85	Type Number
250	GE5.5*	2983	03006-165.9-55-G100
500	GE5.5*	2983	03006-331.8-55-G100
1K	GE7.3	3499	03006-624-73-G100
2K	GE7.3	3499	03006-1248-73-G100
2786	GE10.1	4102	03006-1576-101-G100
3K	GE7.6	3553	03006-1847-76-G100
4K	GE7.6	3553	03006-2463-76-G100
5K	GE7.6	3553	03006-3079-76-G100
10K	GE9.7A	3992	03006-5818-97-G100
20K	GE9.8	3974	03006-11.7K-98-G100
30K	GE9.8	3974	03006-17.53K-98-G100
50K	GE9.7B	3952	03006-29.1K-97-G100
100K	GE9.7B	3952	03006-58.2-97-G100
200K	GE12.3	4365	03006-111.3K-123-G100
500K	GE13.8	4567	03006-269.8K-138-G100
1M	GE14.5	4661	03006-535K-145-G100
5M	GE16.4	4848	03006-2.6M-164-G100

*maximum operating temperature 302°F (150°C)

Type TH Specifications

Glass encapsulated radial lead thermistor

Part Number	Resistance (25 Ω)	β Constant (25/50)	Recommended Maximum Operating Current at 77°F (25°C)	Maximum Permissible Current at 77°F (25°C)
TH220J33G	2.0 K	3375 K	0.22 mA	30.0 mA
TH225J13G	2.545 K	3745 K	0.22 mA	30.0 mA
TH238J34G	3.896 K	3434 K	0.20 mA	26.5 mA
TH253J34G	5.369 K	3434 K	0.16 mA	24.0 mA
TH310J34G	10.74 K	3434 K	0.13 mA	20.0 mA
TH310J36G	10.0 K	3684 K	0.14 mA	20.0 mA
TH310J39G	10.0 K	3933 K	0.14 mA	20.0 mA
TH315J39G	15.0 K	3933 K	0.12 mA	17.0 mA
TH320J39G	20.0 K	3952 K	0.10 mA	15.0 mA
TH349J39G	49.12 K	3952 K	0.06 mA	10.0 mA
TH350J39G	50.0 K	3952 K	0.06 mA	10.0 mA
TH398J40G	98.63 K	4014 K	0.045 mA	5.0 mA
TH410J40G	100.0 K	4014 K	0.045 mA	5.0 mA
TH420J34G	200.0 K	3450 K	0.015 mA	3.5 mA
TH423J41G	231.4 K	4176 K	0.015 mA	3.5 mA
TH510J44G	1,000 K	4491 K	0.007 mA	1.5 mA
TH513J44G	1,388 K	4491 K	0.005 mA	1.0 mA

- The tolerance of resistance is $\pm 5\%$ for standard device
- The tolerance of B constant is $\pm 2\%$ for standard device The constant is determined by the equation:

$$B = 3853.9 \ln (R_{25}/R_{50})$$
R25 and R50 represent the thermistor resistance at 77°F and 122°F (25°C and 50°C) respectively
- Others: For non-standard devices, consult Thermometrics

Dissipation Factor (in still air)	Time Constant (in still air)	Operating Temperature Range	Rated Power at 77°F (25°C)
2.0 (mW/°C)	25 (seconds)	-40°F to 482°F (-40°C to 250°C)	25 mW



NTC Type TH dimensions

Explanation of Part Number

TH	410	S	40	F	D	SN	-	T5
(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
1	2	3 / 5	4	6	7	8		
Type	Resistance R(25°C)	Resistance / B Value Tolerance	B Value Range	Standard Temperature	Lead Wire Type	Packing & Other Description		
Diode Type Thermistor	225:25x10 ² = 2.5kΩ 310:10x10 ³ =10kΩ 410:10x10 ⁴ =100kΩ	F : ± 1% G : ± 2% H : ± 3% J : ± 5% K : ± 10% L : ± 15% M : ± 20% : : <u>S : others</u> S : ± 1.5%	33:3300k ~3399k 40:4000k ~4099k 42:4200k ~4299k	J : -18°C A : 0°C B : 25°C C : 50°C D : 75°C E : 85°C F : 100°C G : 150°C H : 200°C : : : : S : others	NR : CP wire NI : Ni plated Sn : Sn plated : : : : : : S : others	T5 : Taping (52mm, Ammo) ----- R3 : Reel (52mm, 3KP) ----- C11 : 11mm (Wire cutting) ----- Other Special Shape or Dim		

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[DKF104N10](#) [AL03006-535K-145-G1](#) [03006-29.1K-97-G100](#) [03006-1576-101-G100](#) [AL03006-3079-76-G1](#)
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[DKA103B10](#) [DKF103B10](#) [AL03006-165.9-55-G1](#) [DKF303B10](#) [DKF203H10](#) [DKF203M10](#) [DKF104H3](#) [DKF104B5](#)
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[DKF103H10](#) [03006-11.7K-98-G100](#) [AL03006-17.53K-98-G1](#) [DKF303H10](#) [AL03006-624-73-G1](#) [AL03006-58.2K-97-](#)
[G1](#) [DKF203B3](#) [DKF203N5](#) [DKF203B5](#) [DKF203N3](#) [DKF203M5](#) [DKF203M3](#) [DKF203H3](#) [DKF203H5](#) [DKA103B5](#)
[DKA103B3](#) [DKF503H10](#) [DKA103N3](#) [DKA103N5](#) [DKA103H3](#) [DKA103H5](#) [DKA103M3](#) [DKA103M5](#) [DKF503M10](#)
[03006-1847-76-G100](#) [03006-111.3K-123-G100](#) [DKA202N10](#) [DKF103H1](#) [DKF503N10](#) [AL03006-1248-73-G1](#)
[DKA50H25](#) [DKA50N25](#) [AL03006-29.1K-97-G1](#) [DKA50B25](#) [AL03006-2463-76-G1](#) [03006-269.8K-138-G100](#)
[DKF303M10](#) [DKA202B10](#) [DKA502H3](#) [DKF503B3](#) [DKF503N3](#) [DKF503N5](#) [DKF503B5](#) [AL03006-331.8-55-G1](#)
[DKF503H3](#) [DKF503M5](#) [DKF503M3](#) [DKF503H5](#) [DKA202H10](#) [03006-5818-97-G102](#) [03006-1248-73-G100](#)
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[DKA202M3](#) [DKA202H3](#) [DKA202H5](#) [03006-3079-76-G100](#) [DKA103N10](#) [DKF104M5](#) [DKF104M3](#)

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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9