

NTC Thermistors for temperature sensing

Series	AT52E	AT52D	AT58D	AT58	AT52B
Illustration (similar)					
Description	Cost effective standard model	Cost effective model with stranded wires	Cost effective, glass encapsulated high temperature NTC	Cost effective, glass encapsulated high temperature NTC	High precision model e.g. ±0.1K at 0°C ... +70°C
Dimensions	Ø 2.8 x 4mm	Ø 2.8 x 6mm Ø 3.3 x 8mm	Ø 1.3 x 3.2mm Ø 1.8 x 3.4mm	Ø 2 x 4mm	Ø 1.5 x 4mm
Temperature range	-40°C ... +125°C	-40°C ... +125°C	-40°C ... +300°C	-40°C ... +250°C	0°C ... +70°C -40°C ... +105°C
Nominal resistance R ₂₅	1 kΩ ... 1000 kΩ	1 kΩ ... 1000 kΩ	10 kΩ ... 100 kΩ (Selection temp.)	2 kΩ ... 1388 kΩ (Selection temp.)	2.252 kΩ ... 100 kΩ
Tolerance R ₂₅	±1% ... ±5%	±1% ... ±5%	±1% ... ±5%	±1% ... ±5%	±0.1K ... ±0.5K ±0.5% ... ±1%
Beta-Value	3380K ... 4730K	3380K ... 4730K	3420K ... 4537K	3435K ... 4500K	3575K ... 4143K
Beta-Tolerance	±0.75% ... ±2%	±0.75% ... ±2%	±1% ... ±3%	±0.5% ... ±2%	±0.5%
Beta-Value-Range	25/50 25/85	25/50 25/85	25/50 25/85 0/100 100/200	25/50 25/85 100/200	0/50 25/50 25/85
Wire material	Sn plated Cu Sn plated Fe	Sn plated Cu Insulated with XLPE	Cu plated FeNi	Sn plated FeNi	Sn plated Cu Sn plated Fe Cu enameled
Wire dimensions	Ø 0.4 x 25mm	Stranded wires AWG 30	Ø 0.25 x 65mm	Ø 0.5 x 28mm	Ø 0.15 x 87mm
Processing	Soldering Crimping Welding	Soldering Crimping Welding	Soldering Crimping Welding	Soldering Crimping Welding	Soldering Crimping Welding
Specials	Very cost effective	Stranded wires	Glass encapsulated Selection temperatures available e.g. R ₂₀₀	Glass encapsulated	Selection temperatures available e.g. R ₃₇ for medical technology

Changes and errors excepted