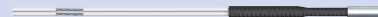






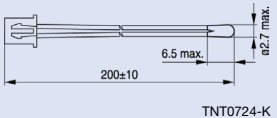
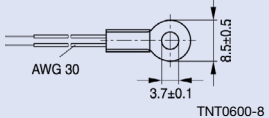
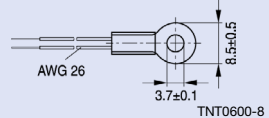
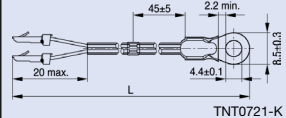
Sample Kit 2022

# NTC Thermistors

for Temperature Measurement in Industrial Applications



# Overview of NTC thermistors included in the sample kit







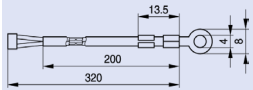
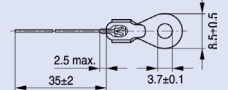
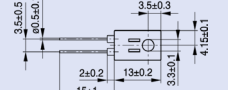

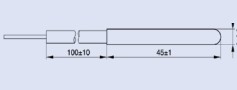
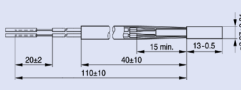
Type	E861	M703	M703	M703
Ordering code	B57861E0103A010	B57703M0103G040	B57703M0103A018	B57703M0103A025
				
Customer benefits	<ul style="list-style-type: none"> <li>• Ready to use NTC element</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to mount screw-on NTC sensor</li> <li>• Cost effective</li> </ul>	<ul style="list-style-type: none"> <li>• Flexible wire length</li> <li>• Enables connector assembly</li> <li>• Easy to mount screw-on NTC sensor</li> </ul>	<ul style="list-style-type: none"> <li>• Usage in high voltage applications</li> <li>• Easy to mount screw-on NTC sensor</li> </ul>
Features	<ul style="list-style-type: none"> <li>• Head diameter max. 2.7 mm</li> <li>• Equipped with JST connector</li> </ul>	<ul style="list-style-type: none"> <li>• Ring tongue for M3/ M3.5 screws</li> <li>• UL approval (E69802)</li> </ul>	<ul style="list-style-type: none"> <li>• Ring tongue for M3/ M3.5 screws</li> <li>• UL approval (E69802)</li> </ul>	<ul style="list-style-type: none"> <li>• Insulation strength of 2880 V AC</li> <li>• Ring tongue for M4 screws</li> <li>• UL approval (E69802)</li> </ul>
Wire specification: length, material, diameter	200 mm, PTFE, multi-strand AWG 26	45 mm, PTFE, single strand AWG 30	200 mm, PTFE, multi-strand AWG 26	220 mm, PTFE, multi-strand AWG 26
Operating temperature	°C -40 ... +155	°C -55 ... +125	°C -55 ... +125	°C -40 ... +125
Nominal resistance @25 °C	Ω 10000 ±2%	Ω 10000 ±2%	Ω 10000 ±2%	Ω 10000 ±2%
B <sub>25/100</sub>	K 3988 ±1%	K 3988 ±1%	K 3988 ±1%	K 3988 ±1%
Insulation voltage	V AC/s 500	1000	1000	2880
Response time	s 10 (in air)	5 (on metal plate)	7 (on metal plate)	11 (on metal plate)
Dimensional drawings	mm 			
Number	1	2	3	4



Environmental  
protection  
for all types



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M1703	M702	M704	K45	K524	K550
B57703M1104A002	B57702M0103J000	B57704M0103A001	B57045K0103A002	B57524K0104A005	B57550K0104A001
					
<ul style="list-style-type: none"> <li>• Usage in high temperature applications</li> <li>• Resistance against higher pull strength</li> </ul>	<ul style="list-style-type: none"> <li>• Cost effective</li> <li>• Easy to mount screw-on NTC sensor</li> </ul>	<ul style="list-style-type: none"> <li>• For automatic assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to mount screw-in NTC sensor</li> <li>• Flexible wire length</li> </ul>	<ul style="list-style-type: none"> <li>• Immersion sensor</li> <li>• Usage in high temperature applications</li> </ul>	<ul style="list-style-type: none"> <li>• Immersion sensor for limited space applications</li> <li>• Usage in high temperature applications</li> </ul>
<ul style="list-style-type: none"> <li>• Maximum operating temperature of 300 °C (sensor head)</li> <li>• Ring tongue with crimp fixation on wire</li> <li>• UL approval (E69802)</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5 mm lead spacing</li> <li>• Ring tongue for M3/ M3.5 screws</li> <li>• UL approval (E69802)</li> </ul>	<ul style="list-style-type: none"> <li>• 3.5 mm lead spacing</li> <li>• Mounting hole diameter of 3.3 mm for M3 screw</li> </ul>	<ul style="list-style-type: none"> <li>• M3 thread</li> </ul>	<ul style="list-style-type: none"> <li>• 6 x 45 mm stainless steel casing</li> </ul>	<ul style="list-style-type: none"> <li>• 4 x 13 mm stainless steel casing</li> <li>• Fast response time</li> </ul>
320 mm, PTFE, multi-strand AWG 26	35 mm, Cu-clad steel with tin plating, single-strand, Ø 0.5 mm	15 mm, Cu with tin plating, single-strand, Ø 0.5 mm	200 mm, PTFE, multi-strand AWG 26	600 mm, FEP, multi-strand AWG 22	110 mm, FEP, multi-strand AWG 26
+10 ... +200 (300 °C sensor tip)	-40 ... +125	-40 ... +125	-40 ... +125	0 ... +230	0 ... +200 (230 °C sensor tip)
100000 ±3%	10000 ±5%	10000 ±2%	10000 ±2%	100000 (2.5% @ 160 °C)	100800 (2.5% @ 160 °C)
B <sub>0/100</sub> = 4036 ±1%	3950 ±3%	3964 ±1%	3988 ±1%	B <sub>0/100</sub> = 4036 ±2%	4092 ±1.5%
1250	500	4000	1250	1250	1250
8 (on metal plate)	7 (on metal plate)	34 (on metal plate)	18 (on metal plate)	24 (in water)	1.8 (in water)
 TNT0515-F	 TNT0711-N	 TNT0709-J	 TNT0722-F	 TNT0710-I	 TNT0712-B
5	6	7	8	9	10



Environmental  
protection  
for all types



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# TDK NTC temperature sensors for various industrial applications



**Important information:** It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. Our products are described in detail in our data sheets. Our important notes and product specific Cautions and warnings must be observed. All relevant information is available through our sales offices.