



## NTCALUG Design Kit NTC Thermistor Ring



The design kit contains a total of 14 different executions with 10 pieces each, and a USB drive. Product subject to modifications without notice.

### FEATURES

- NTC thermistor ring tongue sensors
- Complies with IEC 60539-1 directly heated negative temperature coefficient thermistors
- AEC-Q200 qualified
- Withstand more than 1000 temperature cycles (from -55 °C to +125 °C)
- Ring tongues suitable for M3 to M8 screws
- 20 mm to 150 mm cable length for optimal design
- High reliability
- UL recognition available
- REACH and SVHC compliant
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



RING TONGUE LUG SAMPLE KIT	
SPECIFICATIONS	
Ordering part number	<b>NTCALUG-KIT01</b>
Thermistor type	NTC Thermistor, ring tongue lug sensor
R <sub>25</sub> resistance values	10 000 Ω to 100 000 Ω
Resistance tolerances	± 1 % to ± 2 %
B <sub>25/85</sub> values	3435 K to 4190 K
Cable dimensions	20 mm to 120 mm
Number of R/T curves and tolerances	4
Number of mechanical executions	14

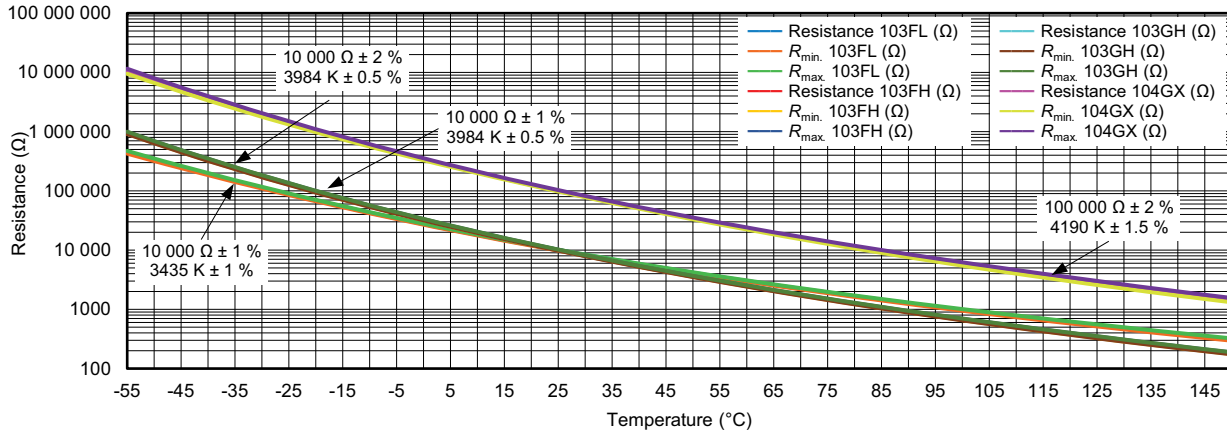
ORDERING TABLE									
(RE-)ORDERING CODE FOR THE DESIGN KIT	R <sub>25</sub> (Ω)	R <sub>25</sub> TOL. (± %)	B <sub>25/85</sub> (K)	B <sub>25/85</sub> TOL. (± %)	FOR SCREW SIZE	CABLE TYPE	WIRE LENGTH (mm)	PART DERIVED FROM	TEMPLATE DATASHEET
NTCALUG01A103FLA-K	10 000	1	3435	1	M3, M3.5	PTFE AWG24/07 600V	120	NTCALUG01A103FLA (3435)	<a href="#">29092</a>
NTCALUG01T103FLA-K	10 000	1	3435	1	M3, M3.5	ETFE AWG26/07 600V	120	NTCALUG01T103FLA (3435)	<a href="#">29164</a>
NTCALUG02A103FLA-K	10 000	1	3435	1	M3, M3.5	PEEK AWG30/01	120	NTCALUG02A103FLA (3435)	<a href="#">29094</a>
NTCALUG91A103GLA-K	10 000	2	3435	1	M4	PTFE AWG24/07 600V	120	NTCALUG91A103GLA (3435)	<a href="#">29193</a>
NTCALUG85A103GLA-K	10 000	2	3435	1	M6	PTFE AWG24/07 600V	120	NTCALUG85A103GLA (3435)	<a href="#">29195</a>
NTCALUG54A103GLA-K	10 000	2	3435	1	M5	PTFE AWG24/07 600V	120	NTCALUG54A103GLA (3435)	<a href="#">29194</a>
NTCALUG01A103FA-K	10 000	1	3984	0.5	M3, M3.5	PTFE AWG24/07 600V	120	NTCALUG01A103FA (3984)	<a href="#">29092</a>
NTCALUG01T103FA-K	10 000	1	3984	0.5	M3, M3.5	ETFE AWG26/07 600V	120	NTCALUG01T103FA (3984)	<a href="#">29164</a>
NTCALUG02A103FA-K	10 000	1	3984	0.5	M3, M3.5	PEEK AWG30/01	120	NTCALUG02A103FA (3984)	<a href="#">29094</a>
NTCALUG03A103GCA-K	10 000	2	3984	0.5	M2	ETFE AWG32/01	120	NTCALUG03A103GCA (3984)	<a href="#">29114</a>
NTCALUG91A103GA-K	10 000	2	3984	0.5	M4	PTFE AWG24/07 600V	120	NTCALUG91A103GA (3984)	<a href="#">29193</a>
NTCALUG91H103FA-K	10 000	1	3984	0.5	M4	FLR2X-A-0.35 AWG22/07	120	NTCALUG91H103FA (3984)	
NTCALUG01A104GA-K	100 000	2	4190	1.5	M3, M3.5	PTFE AWG24/07 600V	120	NTCALUG01A104GA (4190)	<a href="#">29092</a>
NTCALUG01M103G200A	10 000	2	3984	0.5	M3, M3.5	ETFE AWG26/01 600V	20	NTCALUGE4C91516A (MOS)	



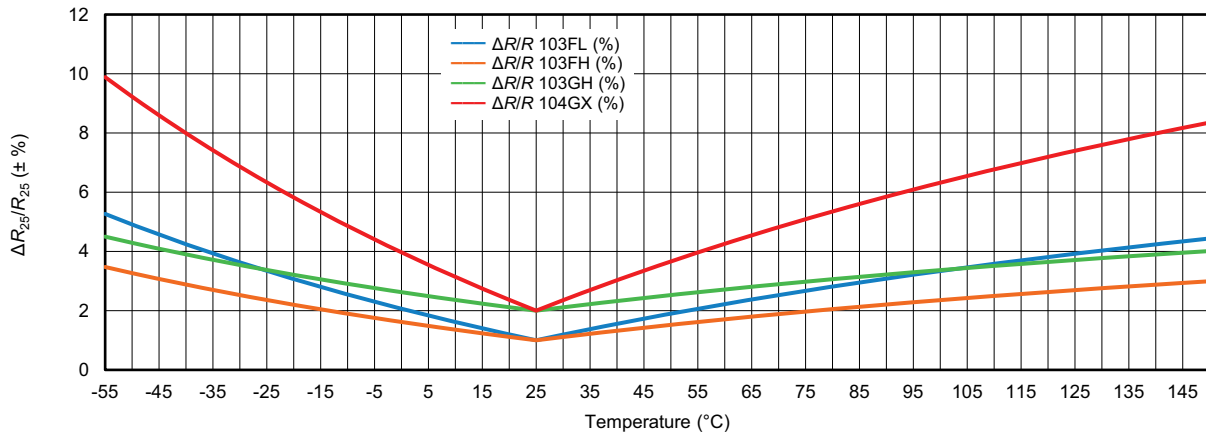
### DESIGN SUPPORT

- The RT tables are available, from 0.1 °C to 10 °C step, at [www.vishay.com/thermistors/ntc-rt-calculator/](http://www.vishay.com/thermistors/ntc-rt-calculator/)
- For handling and mounting, refer to the document [www.vishay.com/doc?29221](http://www.vishay.com/doc?29221)
- For mechanical executions and 3D models, refer to the individual related datasheets
- For other related documents on Vishay NTCALUG sensors, refer to [www.vishay.com/ppg?29164&documents](http://www.vishay.com/ppg?29164&documents)

### RESISTANCE VS. TEMPERATURE



### ΔR<sub>25</sub>/R<sub>25</sub> VS. TEMPERATURE



### ΔT VS. TEMPERATURE

