

# Thermistor Probes and Assemblies

## NPRL Series - Surface Temperature Sensing

### Ring Lug NTC Thermistor Probe Assembly



### Description

The ring lug NPRL series surface temperature sensing thermistor probe assemblies are manufactured using exceptionally stable NTC thermistors that are potted into a ring lug housing with thermally conductive epoxy. This series was designed for screw-in-place applications that offers a wide variety of mounting stud-hole sizes for different resistance and resistance tolerances,  $\beta$  beta values, as well as with a wide selection of lead wire materials and terminations. Designed for rapid thermal response and excellent long-term stability, these ring lug thermistor probe assemblies can be used in a broad range of surface temperature sensing applications such as HVAC systems, automated door and gate systems, and welding equipment.

### Features

- Screw-in-place mounting
- Fast response times
- High stability
- Various mounting hole-stud sizes
- Standard and UL
- Low cost

### Benefits

- Rapid thermal response
- Long-term stability
- Superior reliability
- Precise monitoring
- Easily mounted

### Applications

- Battery management systems
- Automotive electronics
- Building and home automation
- Home appliances
- Industrial electronics and automation
- HVAC systems
- Heat exchangers
- Welding equipment

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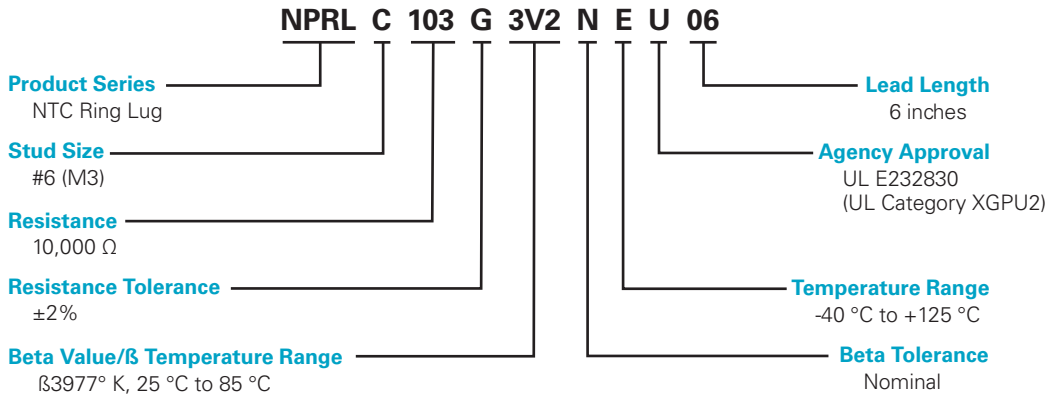
### Specifications

PART NUMBER	RESISTANCE IN OHMS AT 25 C (Ω)	RESISTANCE TOLERANCE ± % AT 25 °C	BETA K 25–85 °C	OPERATING TEMPERATURE MIN °C	OPERATING TEMPERATURE MAX °C	POWER RATING, mW	RESISTANCE-TEMPERATURE CURVE
NPRLC103G3V2NEU06	10000	2	3977	-40	125	20	J

### Certification & Compliance

<b>UL</b>	UL file# E232830 (UL category XGPU2)
<b>REACH</b>	Reach Regulation (EC) No. 1907/2006
<b>ROHS</b>	RoHS 2 Directive 2011/65/EU; Directive (EU) 2015/863

### Part Numbering System



### Ordering Information

CATALOG NUMBER	PACKING	AGENCY APPROVALS
NPRLC103G3V2NEU06	Bulk	UL

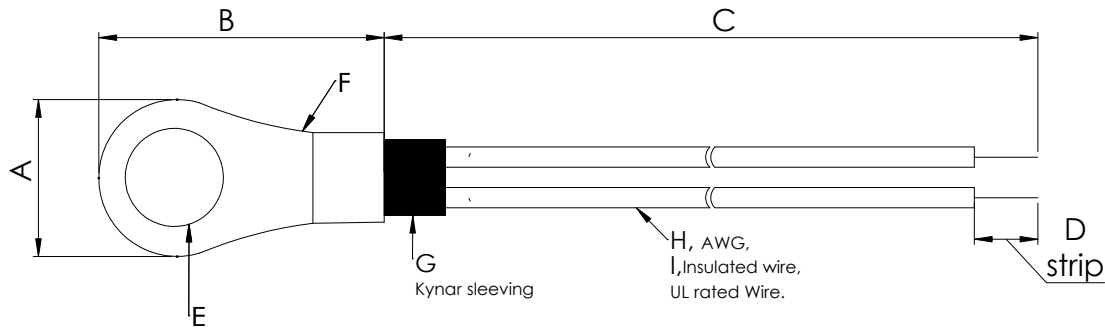
### Electrical Specifications

RESISTANCE (25 C) Ω	RESISTANCE TOLERANCE, ±%	ACCURACY (± °C)	TEMP. COEFFICIENT (%/°C)	BETA (K)	TEMP RATING (°C)	POWER RATING (V)
1000 to 2000000	1 to 10	0.1 ~ 1	3.31 to 4.4	2000 ~ 5000	-40 ~ +300	100 ~ 6000

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### Dimensions Inches (mm)



A	B	C	D	E (RING TONGUE MOUNTING- HOLE DIA)	F (RING TONGUE MOUNTING- STUD SIZE)	G	H	I
0.157" to 0.766" (3.987 to 19.45mm)	0.530" to 1.563" (13.46 to 39.70 mm)	1" to custom lengths (25.4mm to custom lengths)	0.250" ±0.07" (6.35mm ±1.778mm)	0.064" ~ 1.151" (1.625 ~ 29.23mm)	M2 ~ 1/18"	It will be determined based on the application	16 ~ 34 AWG	Standard

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