

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, β 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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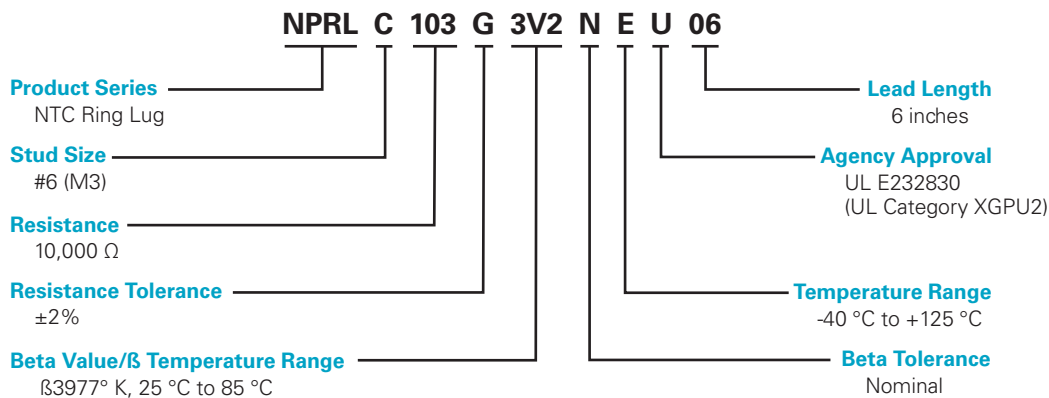
Specifications

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

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

Part Numbering System



Ordering Information

CATALOG NUMBER	PACKING	AGENCY APPROVALS
NPRLC103G3V2NEU06	Bulk	UL

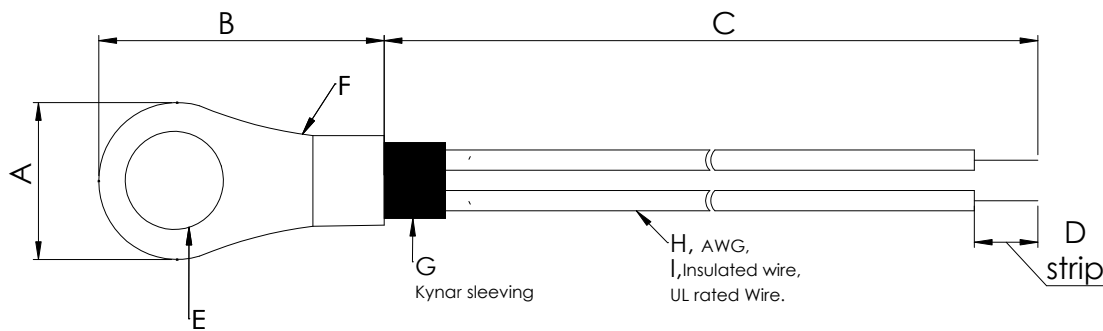
Electrical Specifications

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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