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Bourns Releases New POWrTherm™ Power NTC Thermistors

Model BN-LG05Y/08Y/10Y/13Y/15Y/20Y/25Y Series

Riverside, California – MAY 30, 2023 – Bourns is pleased to debut its [POWRtherm™ Power NTC Thermistors](#), which are high power rating NTC thermistors. NTC thermistors are commonly used as Inrush Current Limiters (ICLs) on power lines.

Bourns® POWrTherm™ Power NTC Thermistors are designed and constructed from various metal oxides which form the polycrystalline NTC thermistor bodies and are capable of suppressing high inrush currents with equivalent capacitance up to 1500 μF @240 VAC and a maximum current up to 15 A. These seven model families are housed in radial leaded through-hole packages and are UL and/or TÜV recognized depending on the specific series. The different disc sizes cater to various market segments from consumer to industrial with applications like Switched-Mode Power Supplies (SMPS), DC motors, amplifiers and transformers.

Model Series	Disc Diameter (mm)	Resistance @ 25 °C (ohms)	I _{max} (A)	Max. Load Capacitance @ 240 VAC (μF)	P _{max} Typical (W)	Operating Temperature Range (°C)	Agency Recognition
BN-LG05Y	5	3.0~20	0.3~3.0	68~100	1.6	-40 to +150	
BN-LG08Y	8	2.5~30	0.5~4.0	100	2.0	-40 to +170	
BN-LG10Y	10	1.0~120	1.0~5.0	150~390	2.3		
BN-LG13Y	13	1.0~50	2.0~7.0	330~560	3.2	-40 to +200	
BN-LG15Y	15	0.7~220	1.0~8.0	470~1,500	3.7		
BN-LG20Y	20	0.7~120	2.0~13.0	1,000~1,500	4.9		
BN-LG25Y	25	1.0~20	5.0~15.0	1,200	7.0		

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Bourns® POWrTherm™ Power NTC Thermistors are RoHS compliant* and halogen free**. For additional product information, please visit www.bourns.com/products/NTC-thermistors. Should you have any questions, please feel free to contact [Bourns Customer Service/Inside Sales](#).

Features

- Seven disc options from 5 to 25 mm diameter
- Wide resistance ranges from 0.7 to 220 ohms
- Highly stable electrical characteristics
- Coating material is flame retardant to the UL 94V-0 standard
- RoHS compliant* and halogen free**

Applications

- Switched-Mode Power Supplies (SMPS)
- Amplifiers
- DC motors
- Transformers

"POWrTherm" is a trademark of Bourns, Inc.

** RoHS Directive 2015/863, Mar 31, 2015 and Annex.*

*** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.*