

POWrTherm™ BN-LG08Y Series Features

- Power NTC thermistor for Inrush Current Limiting (ICL)
- 8 mm disc diameter with wide resistance range
- Highly stable electrical characteristics
- Flame retardant coating material meets UL 94V-0 requirements
- RoHS* compliant and halogen free**
- Agency recognition: c UL us

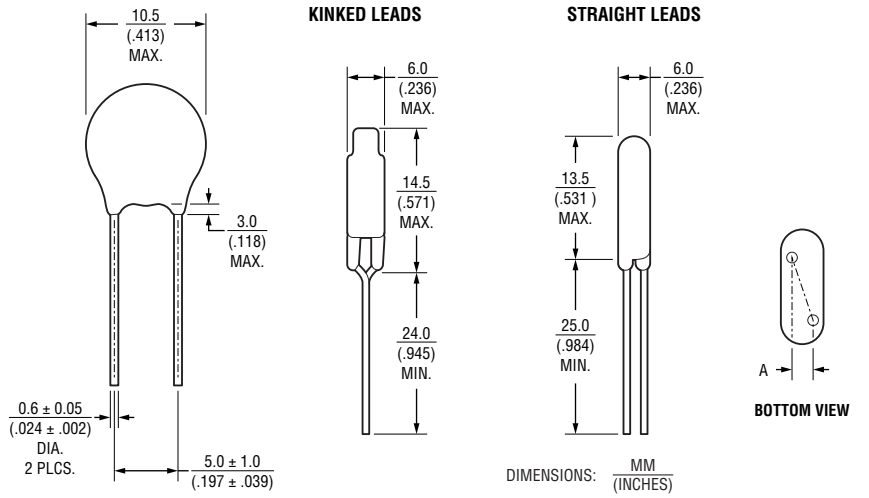
BN-LG08Y Series – Power NTC Thermistors for ICL

Electrical Characteristics

Model	Resistance @ 25 °C (Ω)	Resistance Tolerance[1]	I_{max} (A)	R_{Imax} @ 25 °C (Ω)	Max. Load Capacitance @ 240 VAC (µF)	P_{max} (W)	Dissipation Factor Typical δ (mW/°C)	Thermal Time Constant Typical (sec.)	Operating Temperature Range (°C)
BN-LG08Y2R5Mx	2.5	±20 %	4	0.103	100	2.0	Approx. 14	Approx. 33	-40 to +170
BN-LG08Y3R0Mx	3.0	±20 %	3	0.22					
BN-LG08Y4R0Mx	4.0	±20 %	2	0.428					
BN-LG08Y4R7Mx	4.7	±20 %	3	0.224					
BN-LG08Y5R0Mx	5.0	±20 %	3	0.238					
BN-LG08Y6R0Mx	6.0	±20 %	3	0.168					
BN-LG08Y7R0Mx	7.0	±20 %	3	0.196					
BN-LG08Y8R0Mx	8.0	±20 %	3	0.224					
BN-LG08Y100Mx	10.0	±20 %	3	0.28					
BN-LG08Y150Mx	15.0	±20 %	2	0.567					
BN-LG08Y180Mx	18.0	±20 %	2	0.68					
BN-LG08Y200Mx	20.0	±20 %	1	1.157					
BN-LG08Y220Mx	22.0	±20 %	1	1.279					
BN-LG08Y300Mx	30.0	±20 %	0.5	4.087					

Notes:
"x" denotes lead type. "Y" = Kinked, "S" = Straight.
[1] ±15 % resistance tolerance is available upon request.

Product Dimensions



R_{25}	All except 10 Ω	10 Ω
A dimension	1.8 ± 0.8 (.071 ± .031)	2.0 ± 0.8 (.079 ± .031)

Additional Information

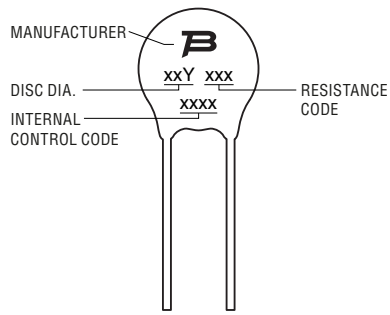
Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Agency Recognition

c UL us ..... File number: E307915

Typical Part Marking



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*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.

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Environmental Characteristics

Storage Conditions
- Temperature ..... +15 °C to +40 °C
- Humidity ..... 20 to 70 %

Moisture Sensitivity Level 1

Standard Packaging Quantities

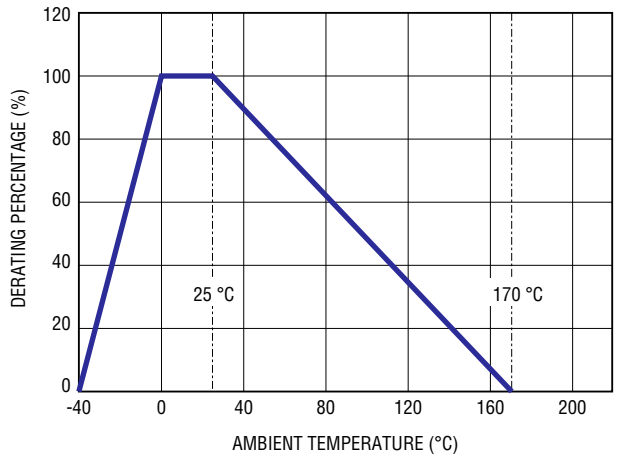
Bulk	4,000 pcs./box
Tape & Reel	1,500 pcs./reel
Ammo Pack	1,000 pcs./box

How to Order

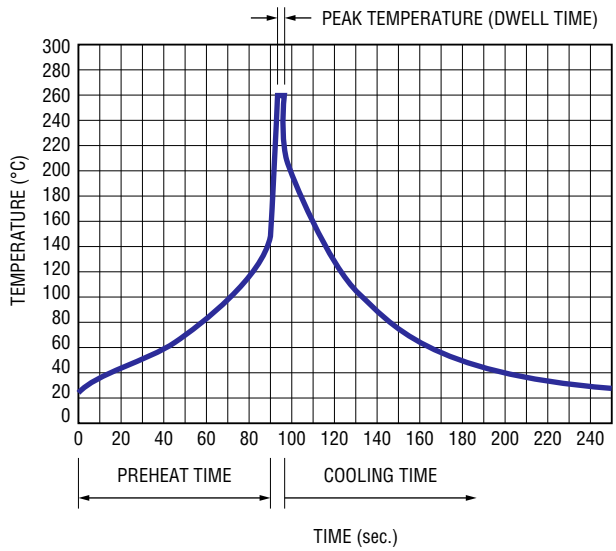
BN - LG 08Y 2R5 M Y B

- POWrTherm™ Product Designator
- Series
  - LG = For Inrush Current Limiting (ICL)
- Disc Diameter
  - 08Y = 8 mm
- Resistance @ 25 °C
  - 2R5 = 2.5 Ω
  - 100 = 10 Ω
- Tolerance of R_{25}
  - L = ±15 %
  - M = ±20 %
- Lead Type
  - Y = Kinked
  - S = Straight
- Packaging Type
  - B = Bulk
  - R = Tape & Reel
  - M = Ammo Pack

I_{max} Derating vs. Ambient Temperature Curves



Solder Reflow Recommendations



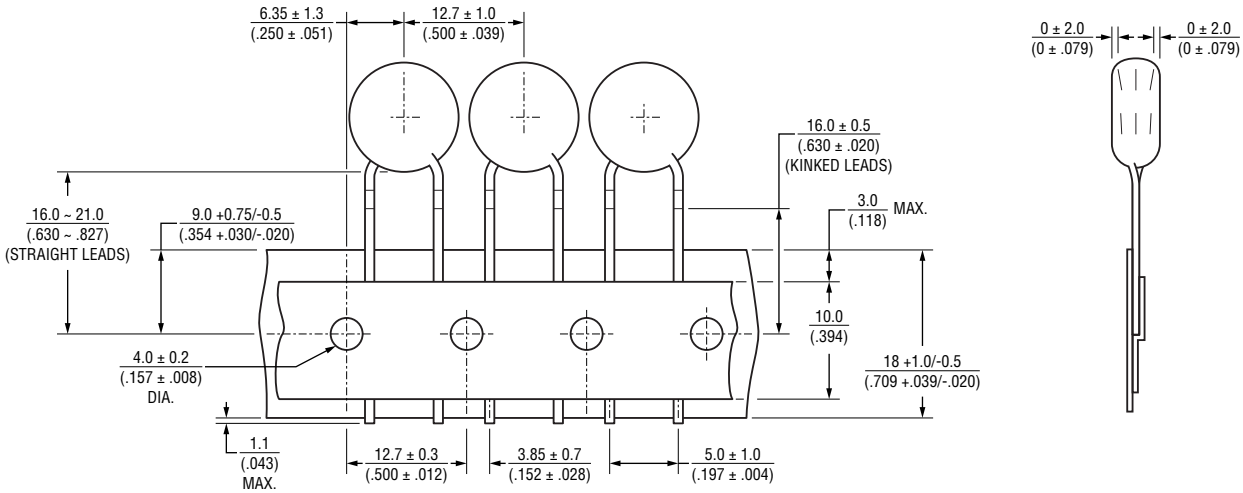
Profile Feature	Pb-Free Assembly
Preheat Temperature Max. (T_{smax}) Time (t_s) from (T_{smin} to T_{smax})	 150 °C 60~90 seconds
Solder Pot Temperature	260 °C max.
Solder Dwell Time	2-3 seconds

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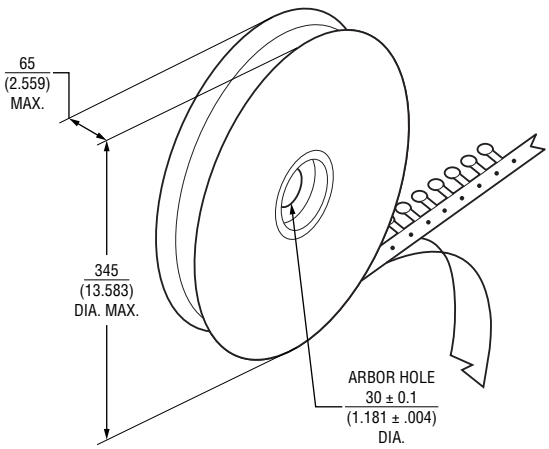
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Packaging Specifications

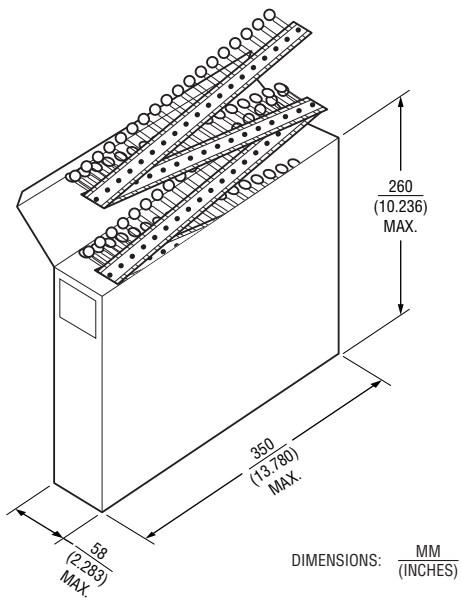
Tape



Reel



Ammo Pack



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REV. 07/23

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