

POWrTherm™ BN-LG05Y Series Features

- Power NTC thermistor for Inrush Current Limiting (ICL)
- 5 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 🕶 us



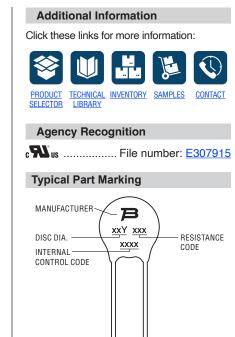
BN-LG05Y Series – Power NTC Thermistors for ICL

Electrical Characteristics

Model	Resistance @ 25 °C (Ω)	Resistance Tolerance ¹	I _{max} (A)	R _{lmax} @ 25 °C (Ω)	Max. Load Capacitance @ 240 VAC (µF)	P _{max} Typical (W)	Dissipation Factor Typical δ (mW/°C)	Thermal Time Constant Typical (sec.)	Operating Temperature Range (°C)
BN-LG05Y3R0Mx	3.0	±20 %	3.0	0.220	100 68 100 68	1.6	Approx. 13	Approx. 25	-40 to +150
BN-LG05Y4R0Mx	4.0	±20 %	2.0	0.350					
BN-LG05Y5R0Mx	5.0	±20 %	2.0	0.417					
BN-LG05Y7R0Mx	7.0	±20 %	1.2	0.554					
BN-LG05Y8R0Mx	8.0	±20 %	1.0	0.911					
BN-LG05Y100Mx	10.0	±20 %	1.0	0.975					
BN-LG05Y120Mx	12.0	±20 %	1.0	1.188					
BN-LG05Y200Mx	20.0	±20 %	0.3	5.600	100				

Notes:

Product Dimensions KINKED LEADS STRAIGHT LEADS (.295)MAX 6.0 (.236)(236) MAX. MAX. 10.0 11.0 (.394)(.433)MAX. MAX (.118) 25.0 24.0 (.984)(.945) MIN. 1.8 ± 0.8 MIN. (.071 ± .031) 0.6 ± 0.05 **BOTTOM VIEW** $\overline{(.024 \pm .002)}$ DIA. 5.0 ± 1.0 (.197 ± .039) 2 PLCS. DIMENSIONS: (INCHES)





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

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

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Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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[&]quot;x" denotes lead type. "Y" = Kinked, "S" = Straight.

¹ ±15 % resistance tolerance is available upon request.

^{**}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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BOURNS®

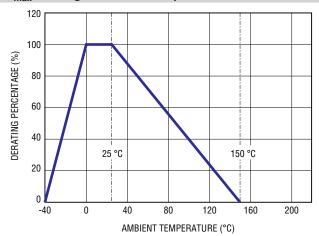
Environmental Characteristics

Storage Conditions	
Temperature	+15 °C to +40 °C
Humidity	20 to 70 %
Moisture Sensitivity Level	

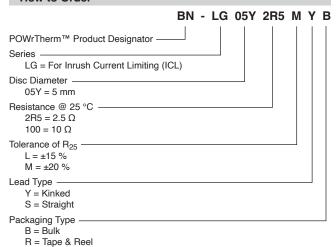
Standard Packaging Quantities

	Bulk	5,000 pcs./box		
ĺ	Tape & Reel	1,500 pcs./reel		
	Ammo Pack	1,000 pcs./box		

I_{max} Derating vs. Ambient Temperature Curves

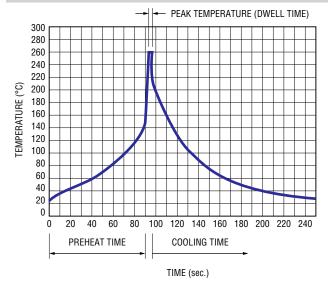


How to Order



Solder Reflow Recommendations

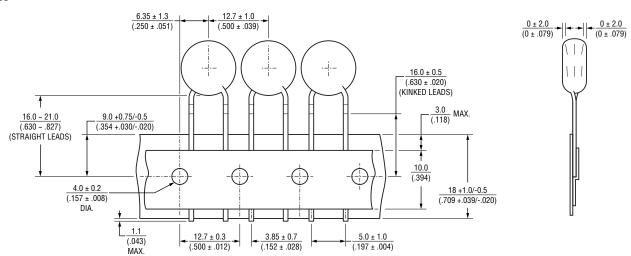
M = Ammo Pack



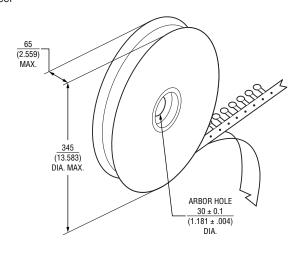
Profile Feature	Pb-Free Assembly
Preheat Temperature Max. (T _{smax}) Time (t _s) from (T _{smin} to T _{smax})	150 °C 60~90 seconds
Solder Pot Temperature	260 °C max.
Solder Dwell Time	2-3 seconds

Packaging Specifications

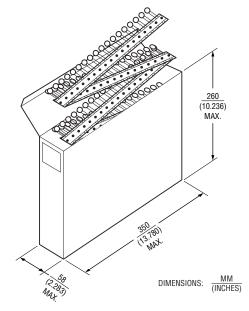
Tape



Reel



Ammo Pack



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