

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

BN-LG05Y Series – Power NTC Thermistors for ICL

- RoHS* compliant and halogen free**
- Agency recognition: c us



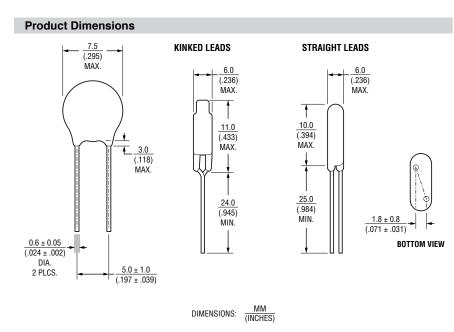
Electrical Characteristics

Model	Resistance @ 25 °C (Ω)	Resistance Tolerance ¹	I _{max} (A)	R _{Imax} @ 25 °C (Ω)	Max. Load Capacitance @ 240 VAC (µF)	P _{max} 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							
BN-LG05Y4R0Mx	4.0	±20 %	2.0	0.350	100	100					
BN-LG05Y5R0Mx	5.0	±20 %	2.0	0.417			100				
BN-LG05Y7R0Mx	7.0	±20 %	1.2	0.554			1.0	A	A	40 to 1450	
BN-LG05Y8R0Mx	8.0	±20 %	1.0	0.911	68	1.6	Approx. 13	Approx. 25	-40 to +150		
BN-LG05Y100Mx	10.0	±20 %	1.0	0.975	100						
BN-LG05Y120Mx	12.0	±20 %	1.0	1.188	68						
BN-LG05Y200Mx	20.0	±20 %	0.3	5.600	100	1					

Notes:

"x" denotes lead type. "Y" = Kinked, "S" = Straight.

¹ ±15 % resistance tolerance is available upon request.



Additional Information

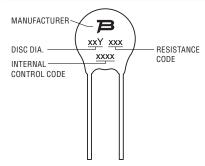
Click these links for more information:



Agency Recognition



Typical Part Marking



WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

*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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Users should verify actual device performance in their specific applications.

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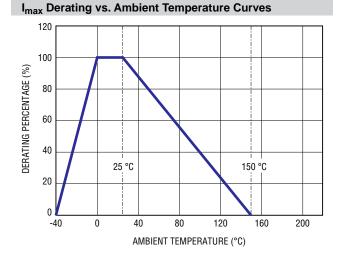
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Environmental Characteristics

Storage Conditions	
Temperature	+15 °C to +40 °C
Humidity	
Moisture Sensitivity Level	1

Standard Packaging Quantities

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

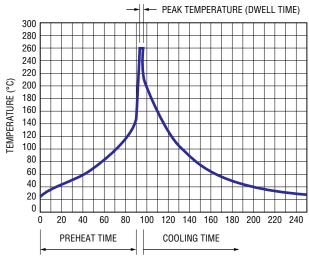


How to Order

	BN -	LG	05Y	2R5	M	ΥE	3
POWrTherm™ Product Designator —							
Series LG = For Inrush Current Limiting (I0	CL)						
Disc Diameter 05Y = 5 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 B = Tang & Bool							

- = Tape & Reel M = Ammo Pack

Solder Reflow Recommendations



ΓΙΜΕ ((sec.)
	(000.)

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

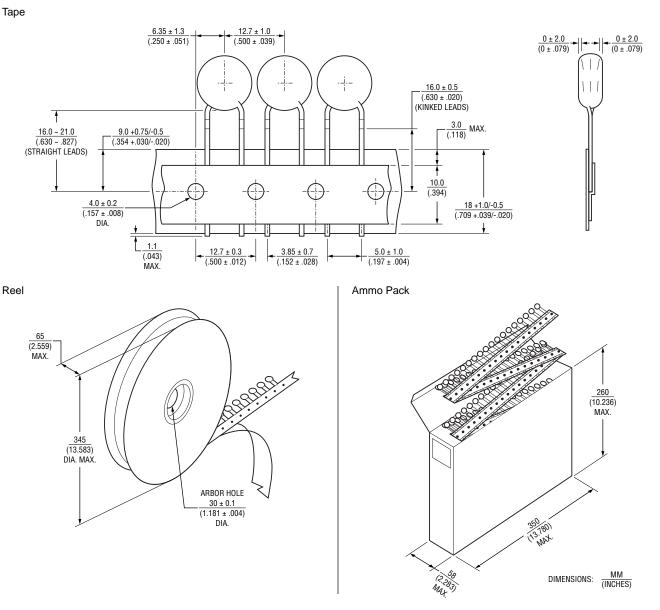
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Packaging Specifications



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