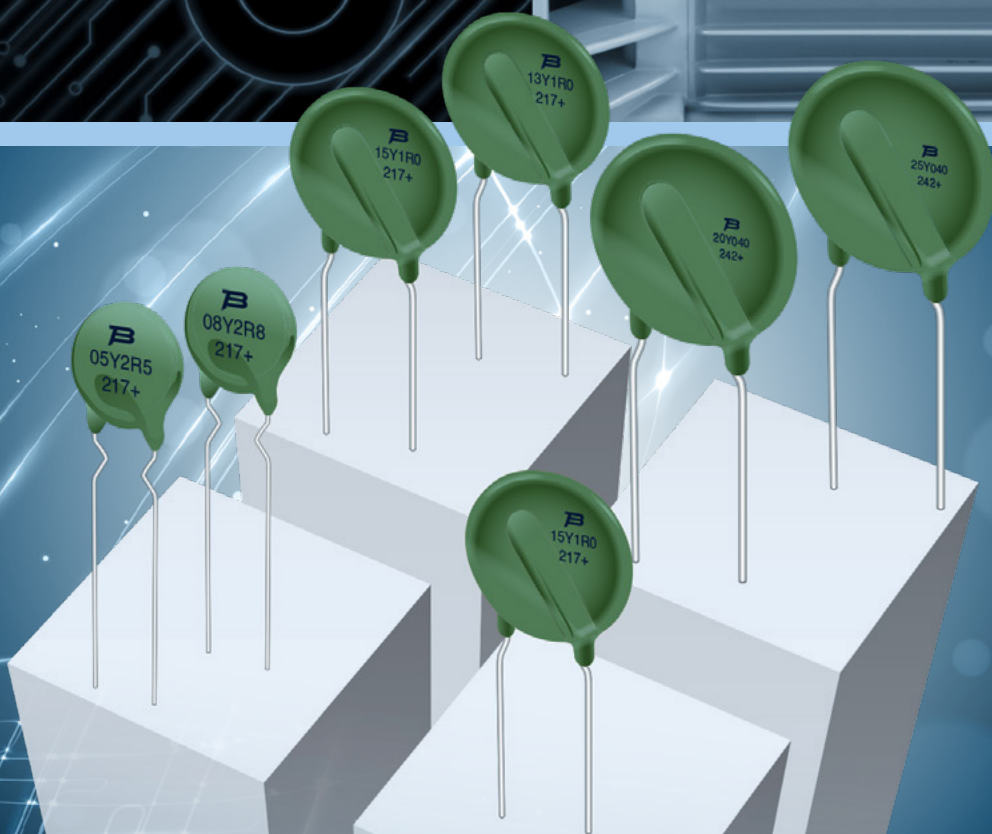
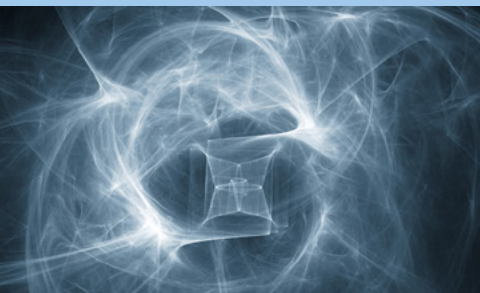


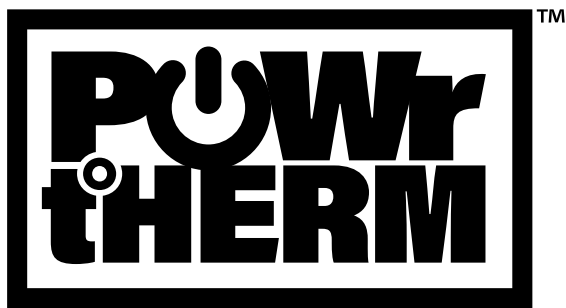


BOURNS® POWrTherm™

Negative Temperature Coefficient (NTC) Thermistors
for Inrush Current Limiting



OVERVIEW



INTRODUCTION

Bourns Circuit Protection Division is dedicated to high quality and superior performance solutions including overvoltage protectors (OVP), overcurrent protectors (OCP) and over-temperature protectors (OTP).

POWTherm™ NTC Thermistors are overcurrent protectors and act as Inrush Current Limiters (ICLs) – commonly used in switch-mode power supplies, motors, amplifiers, and transformer applications. Bourns® POWTherm™ products are manufactured from various metal oxides to form polycrystalline NTC thermistor bodies capable of suppressing high inrush currents with equivalent capacitance up to 1500 μF @240 VAC and maximum current ratings up to 15 A.

- Disc diameter: 5~25 mm (7 model families)
- R_{25} : $0.7 \Omega \sim 220 \Omega$
- Lead type: kinked and straight
- Coating material flame retardant to UL 94V-0
- Agency recognition: cUL and TÜV
- RoHS compliant* and halogen free**

HOW TO ORDER

BN - LG 10Y 2R5 M Y B

POWrTherm™ Product Designator

Series

LG = For Inrush Current Limiting (ICL)

Disc Diameter

10Y = 10 mm

Resistance @ 25 °C

2R5 = 2.5 Ω 100 = 10 Ω

Tolerance of R25

L = $\pm 15\%$ M = $\pm 20\%$

Lead Type

Y = Kinked S = Straight

Packaging Type

B = Bulk R = Tape & Reel M = Ammo Pack

*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.**

PORTFOLIO

[illegible]

PRODUCT OFFERING

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG05Y		5	3.0 ~ 20	0.3 ~ 3.0	68 ~ 100	1.6	-40 to +150	

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG08Y		8	2.5 ~ 30	0.5 ~ 4.0	100	2.0	-40 to +170	

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG10Y		10	1.0 ~ 120	1.0 ~ 5.0	150 ~ 390	2.3	-40 to +170	

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG13Y		13	1.0 ~ 50	2.0 ~ 7.0	330 ~ 560	3.2	-40 to +200	 

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG15Y		15	1.3 ~ 220	1.0 ~ 8.0	470 ~ 1,500	3.7	-40 to +200	 

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG20Y		20	0.7 ~ 120	2.0 ~ 13	1,000	4.9	-40 to +200	 

Series	Photo	Disc Diameter (mm)	Resistance R ₂₅ (Ω)	I _{max} (A)	Maximum Load Cap. @ 240 VAC (μF)	P _{max} (W)	Operating Temp. T _L ~ T _U (°C)	Agency Recognition
BN-LG25Y		25	1.0 ~ 20	5.0 ~ 15	1,200	7.0	-40 to +200	 

Worldwide Sales & Representative Offices



Country/Region	Phone	Email
Americas:	+1-951-781-5500	americus@bourns.com
Brazil:	+55 11 5505 0601	americus@bourns.com
China:	+86 21 64821250	asiacus@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurocus@bourns.com
Japan:	+81 49 269 3204	asiacus@bourns.com
Korea:	+82 70 4036 7730	asiacus@bourns.com
Singapore:	+65 6348 7227	asiacus@bourns.com
Taiwan:	+886 2 25624117	asiacus@bourns.com
Other Asia-Pacific Countries:	+886 2 25624117	asiacus@bourns.com
Technical Assistance		
Region	Phone	Email
Asia-Pacific:	+886 2 25624117	techweb@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurotech@bourns.com
Americas:	+1-951-781-5500	techweb@bourns.com

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www.bourns.com

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Specifications subject to change without notice. Actual performance in specific customer applications may differ due to the influence of other variables. Customers should verify actual device performance in their specific applications.

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