

Features

- Low loss design
- Low parasitic capacity
- Rated current up to 4.5 A
- Protected by plastic housing
- Designed to support IEC 61000-3-2
- Operates at high nominal voltage
- RoHS compliant* and halogen free**

Applications

- PFC boost stages
- Applications with power levels up to 1 kW
- Highly efficient SMPS

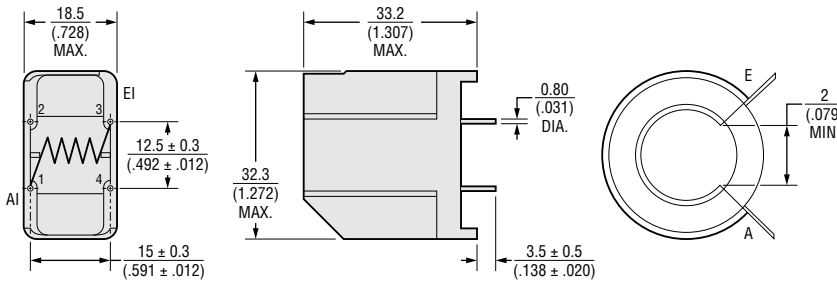
Model 15290x Series LP PFC Chokes

Electrical Specifications @ 25 °C

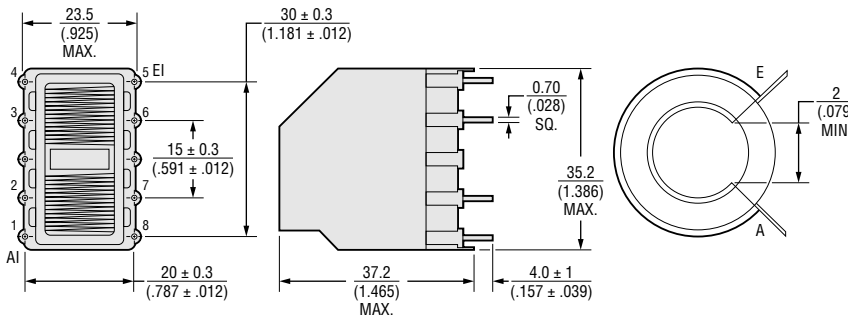
Bourns Part Number	Nominal Current (A)	Inductance Lo (μH)	DC Resistance Max. (Ω)	Nominal Inductance Ldc (μH)
152900-000	2	600	0.26	520
152901-000	2	2250	0.35	1130
152902-000	2	1100	0.375	800
152903-000	2.5	600	0.22	540
152904-000	3	1750	0.21	780
152905-000	4	650	0.15	530
152906-000	3.5	1850	0.195	730
152907-000	3.5	900	0.192	600
152908-000	4.5	750	0.15	570

Product Dimensions

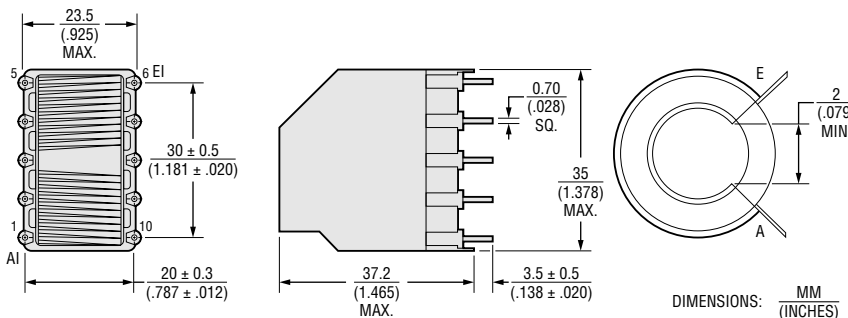
152900



152901 & 152902



152903



Additional Information

Click these links for more information:



General Specifications

Operating Temperature

..... -40 °C to +125 °C
(Temperature rise included)

Storage Temperature .. -40 °C to +125 °C

Rated Current

..... Inductance drops 20 % at Isat

Temperature Rise 40 °C at rated Irms¹

Moisture Sensitivity Level..... 1

ESD Classification (HBM)..... N/A

Note 1: Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Materials

Core..... Alloy core

Wire Enameled copper

Terminal Finish Sn

Packaging

152900-000	.....	357 pcs. per tray
152901-000	.....	140 pcs. per tray
152902-000	.....	140 pcs. per tray
152903-000	.....	140 pcs. per tray
152904-000	.....	30 pcs. per tray
152905-000	.....	30 pcs. per tray
152906-000	.....	30 pcs. per tray
152907-000	.....	30 pcs. per tray
152908-000	.....	30 pcs. per tray

How to Order

Order by Model No. 15290x-000



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.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

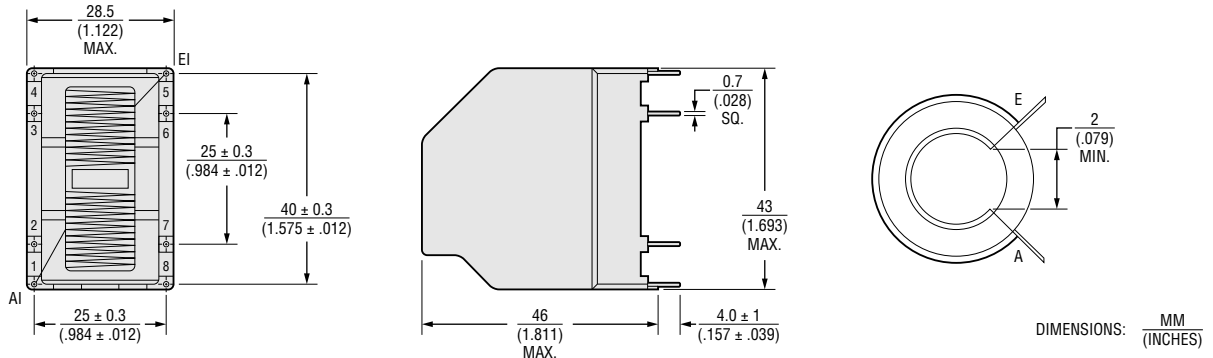
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Model 15290x Series LP PFC Chokes

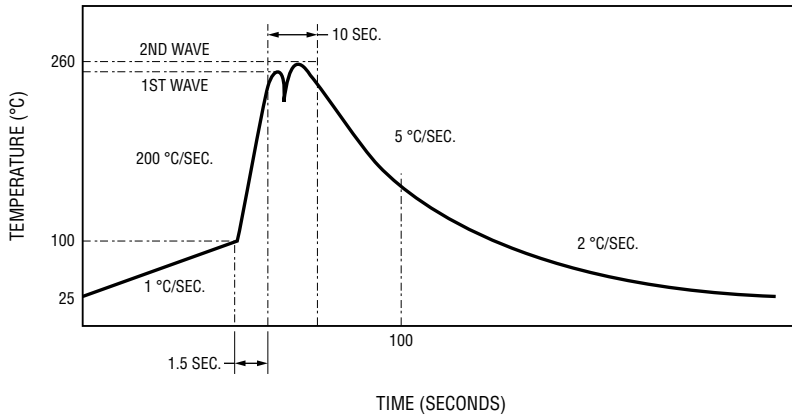
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Product Dimensions (continued)

152904 – 152908

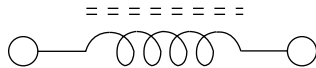


Solder Profile



Profile Feature	Pb-Free Assembly
Average ramp-up rate	~ 200 °C/second
Heating rate during preheat	typical 1-2 °/second max. 4 °/second
Final preheat temperature	within 125 °C of soldering temperature
Peak temperature T_p	260 °C
Time within +0 °C / -5 °C of actual peak temperature	10 seconds
Ramp-down rate	5 °C/second max.

Electrical Schematic



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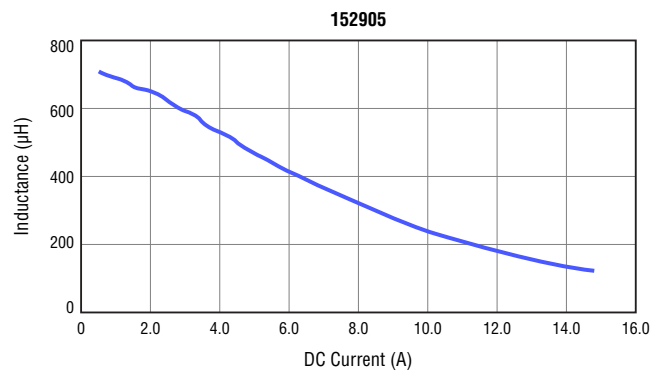
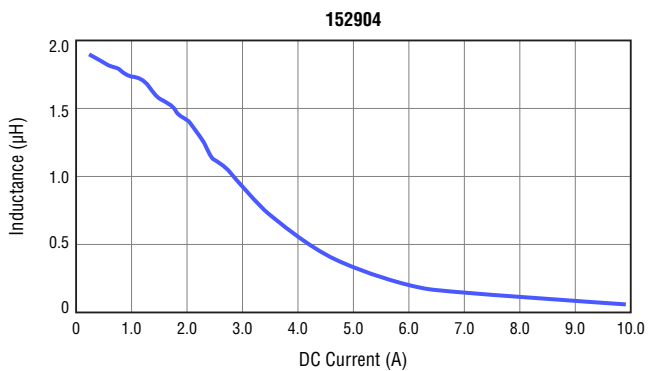
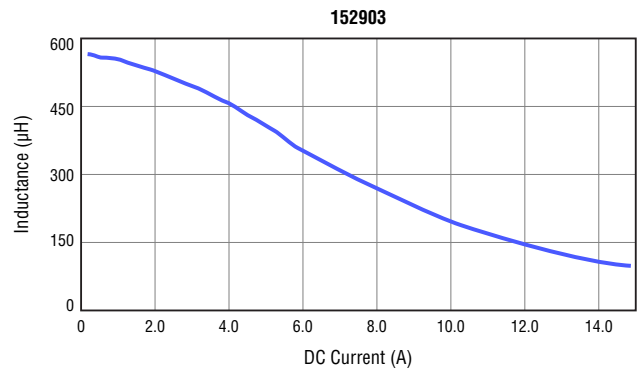
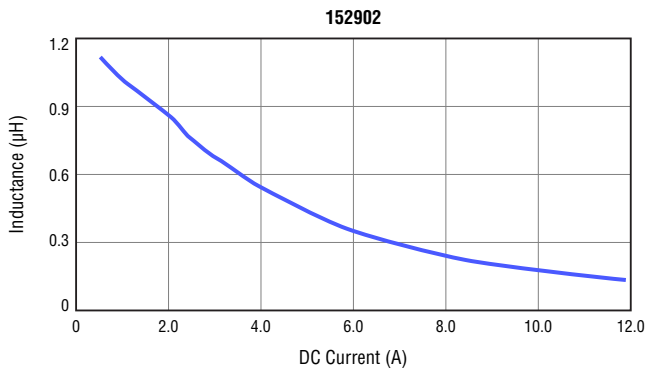
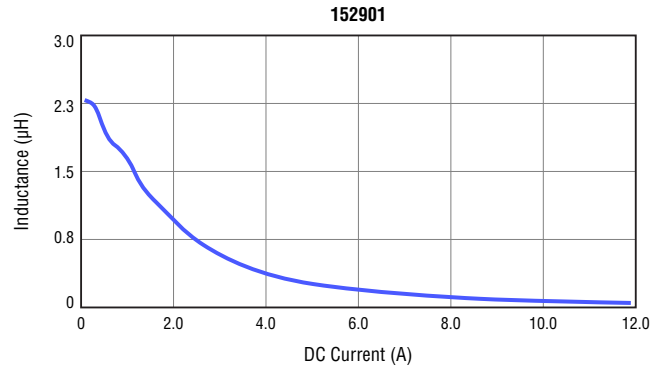
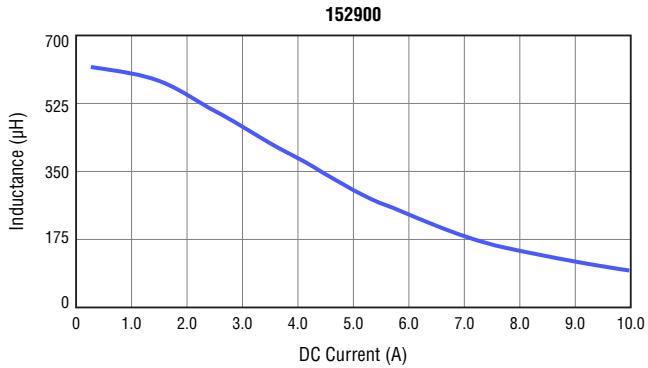
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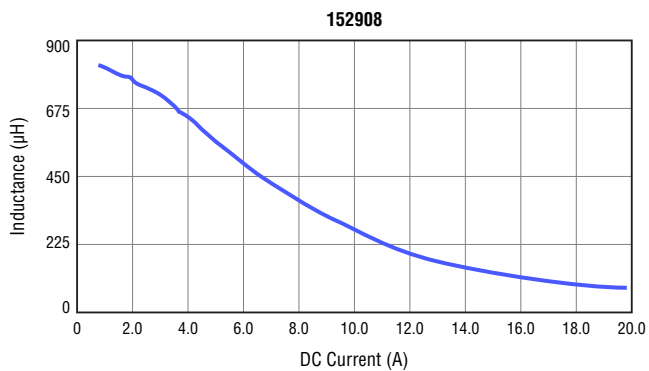
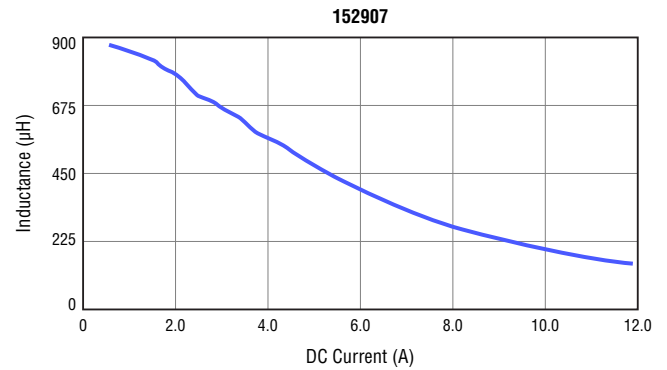
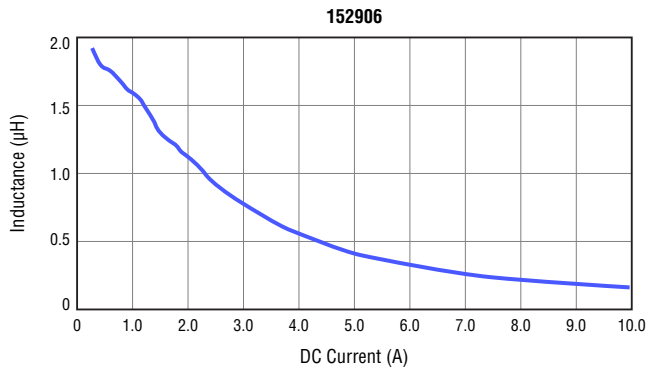
Inductance vs. IDC



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Inductance vs. IDC (continued)



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