

## 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

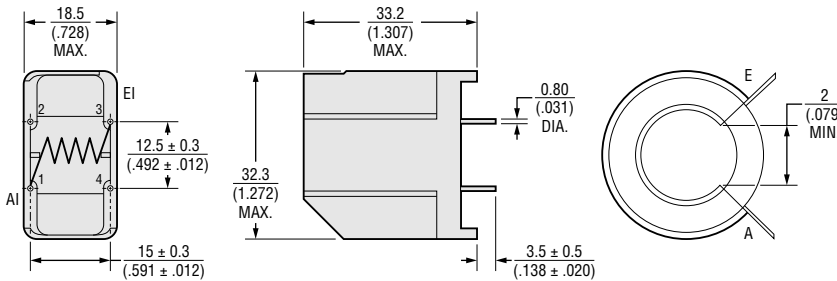
# Model 15290x Series LP PFC Chokes

### Electrical Specifications @ 25 °C

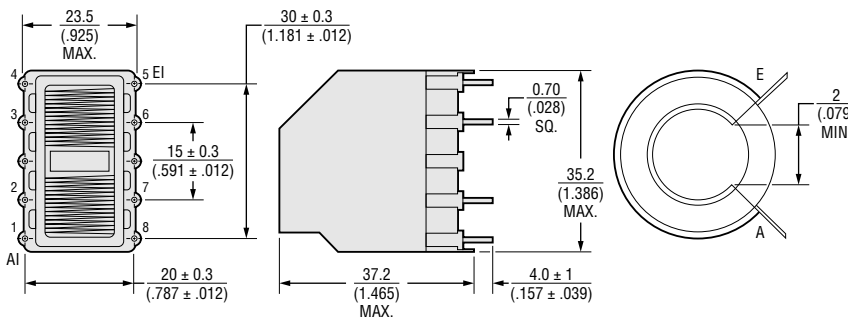
Bourns Part Number	Nominal Current (A)	Inductance Lo (μH)	DC Resistance Max. (Ω)	Nominal Inductance Ldc (μH)
152900-000	2	600	0.26	520
152901-000	2	2250	0.35	1130
152902-000	2	1100	0.375	800
152903-000	2.5	600	0.22	540
152904-000	3	1750	0.21	780
152905-000	4	650	0.15	530
152906-000	3.5	1850	0.195	730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

### Product Dimensions

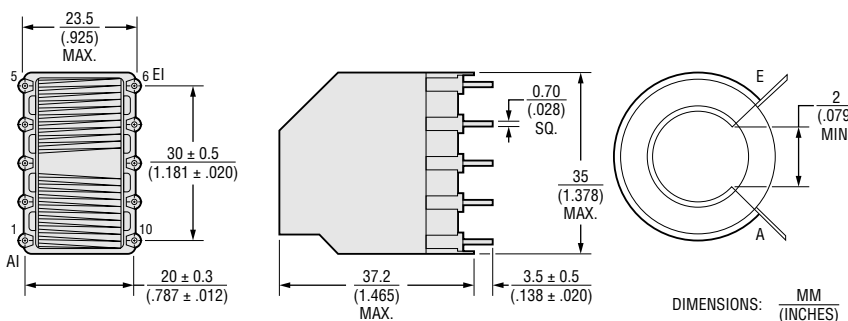
#### 152900



#### 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 Irms'  
 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](http://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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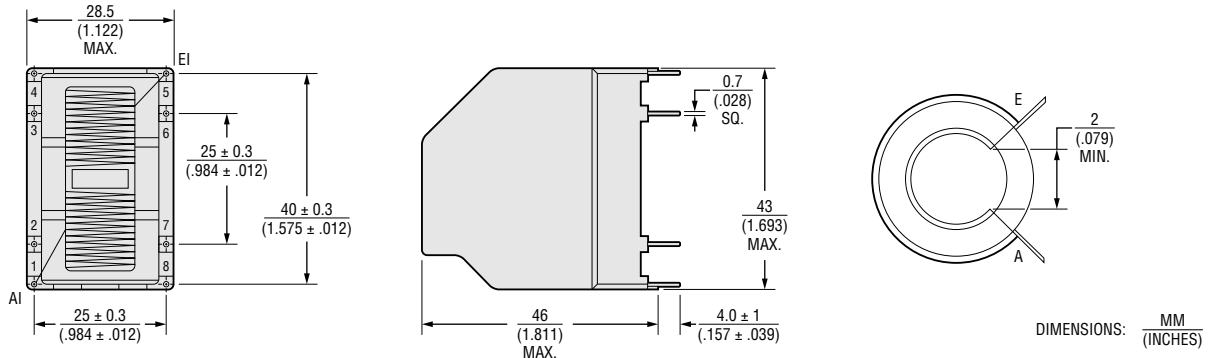
DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

# Model 15290x Series LP PFC Chokes

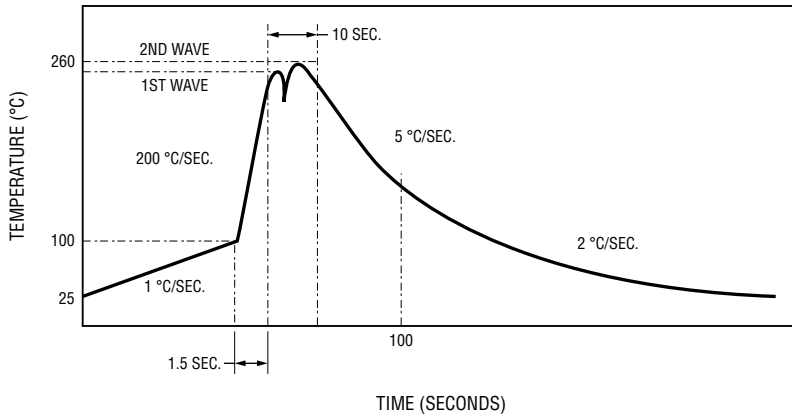
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## Product Dimensions (continued)

152904 – 152908

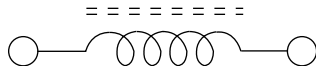


## Solder Profile



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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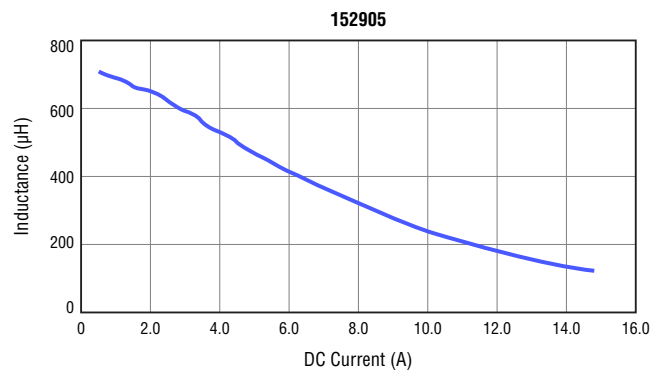
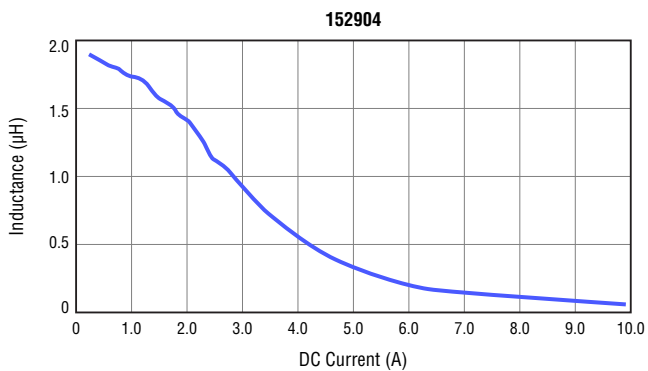
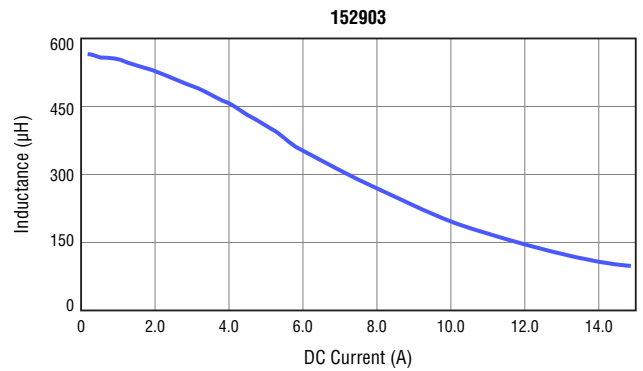
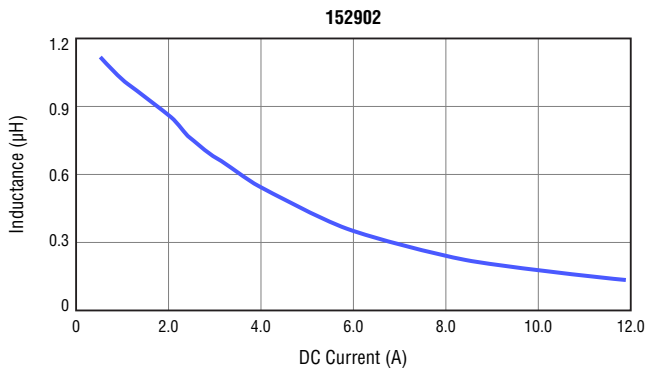
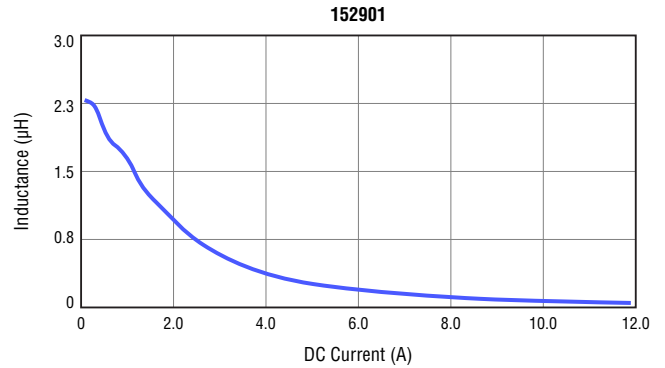
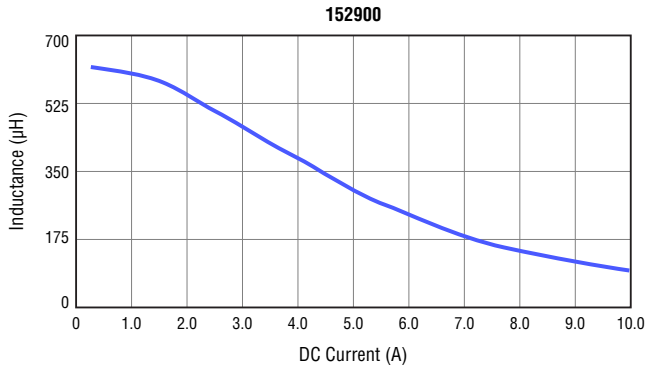
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# Model 15290x Series LP PFC Chokes

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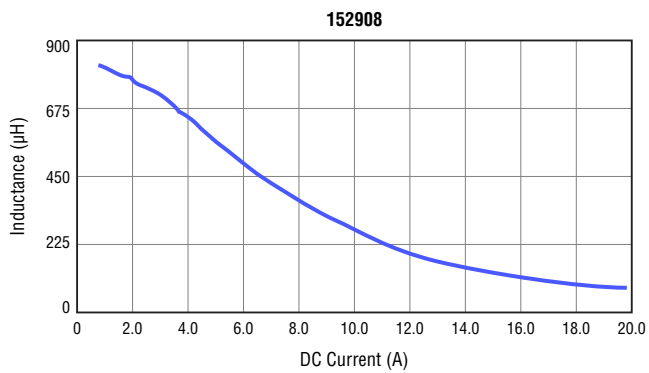
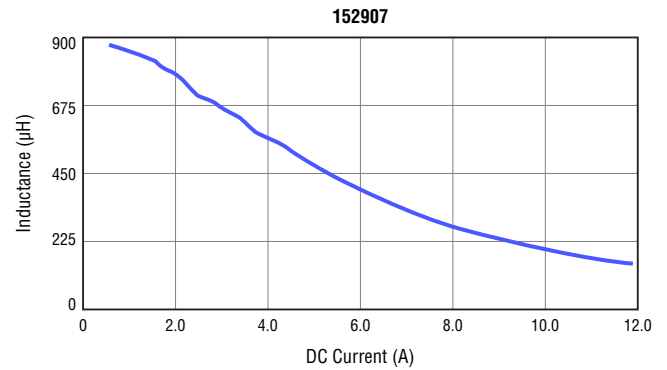
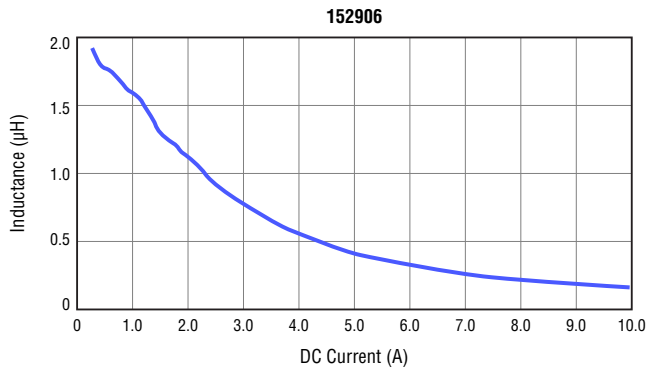
## Inductance vs. IDC



## Model 15290x Series LP PFC Chokes

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### Inductance vs. IDC (continued)



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