

# Data Sheet



Helping Engineer the Technology of Power

ICE Components, Inc.

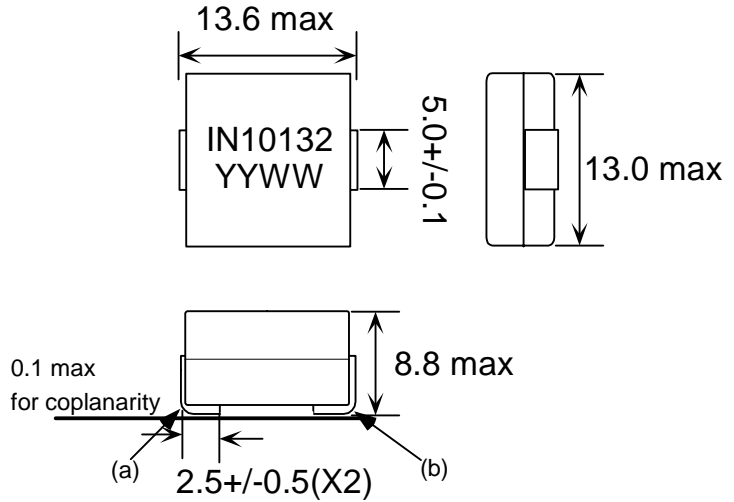
Tel 678-560-9172 Fax 678-560-9304

cust.serv@icecomp.com

www.icecomponents.com

1165 Allgood Rd., Ste. #20, Marietta, GA 30062

## Mechanical Drawing



unit:mm

## General Information

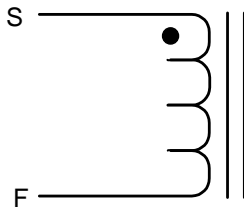
<b>Customer</b>	
<b>Part Number</b>	IN10132
<b>Revision</b>	0
<b>Description</b>	Inductor
<b>Date</b>	MAY-10-2012
<b>Reference</b>	--
<b>Doc Control #</b>	--
<b>Issue (For ICE use only)</b>	--

## Specification

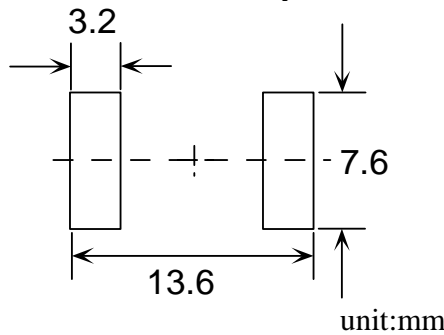
## Sample Test Data

Item	Pins	Spec	Test Condition	
Inductance @0Adc	S - F	320 nH +/- 20%	100 kHz, 1Vrms, series	
Inductance @Isat at 25degC	S - F	205 nH min	100 kHz, 1Vrms, series (57Adc)	
DCR <sup>4</sup>	S - F	0.17 mOhm +/- 10%	+25 deg C	
Isat at 25degC <sup>5</sup>	S - F	57 Adc max		
Isat at 125degC <sup>5</sup>	S - F	40 Adc max		
Idc <sup>6</sup>	S - F	50 Adc max		

## Schematic



## Recommended PCB Layout



## Remark

- This is RoHS compliant product.
- The operating temperature is -40degC~ +130degC (ambient + temperature rise).
- Ferrite core material.
- The nominal DCR is measured from point (a) to point (b), as shown on the mechanical drawing.
- Isat is the current at which the inductance drops by 20%.
- Idc is the DC current which causes the part temperature to increase by approximately 40degC. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes without any forced air cooling.
- Inductance vs. Current Curve as attached.

Sample approval is required before release to production. Sample specifications take precedence over customer specifications.

Customer Signature

Rev.	Description	PRD	CHK	APP	Date	NTFY
0	Initial release	Emily	Gary	L. L. Chou	2011/5/3	2012/5/10

### Inductance vs. Current

