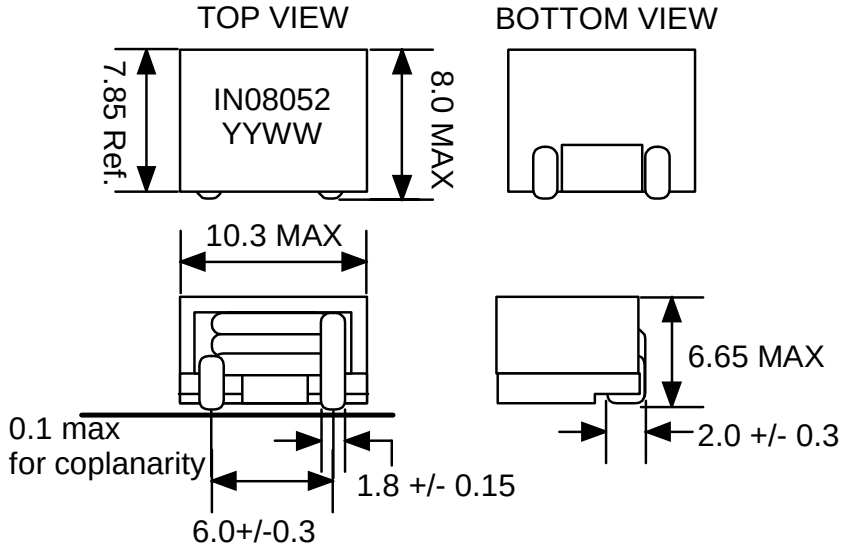
Data Sheet

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

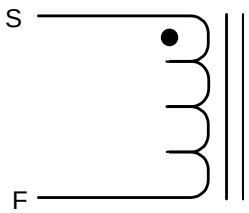


unit:mm

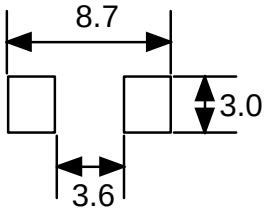
General Information	
Customer	
Part Number	IN08052
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue (For ICE use only)	--

Specification				Sample Test Data
Item	***Pins***	***Spec***	***Test Condition***	
Inductance @0Adc	S - F	5.9 uH +/- 10%	100 kHz, 1Vrms, series	
Inductance @Isat at 25degC	S - F	4.2 uH min	100 k Hz, 1Vrms, series (7.5 Adc)	
DCR	S - F	6.8 mOhm +/- 10%	+25 deg C	
Isat at +25degC	S - F	7.5Adc max		
Isat at +125degC	S - F	5.5Adc max		

Schematic



Recommended PCB Layout



unit:mm

Remark

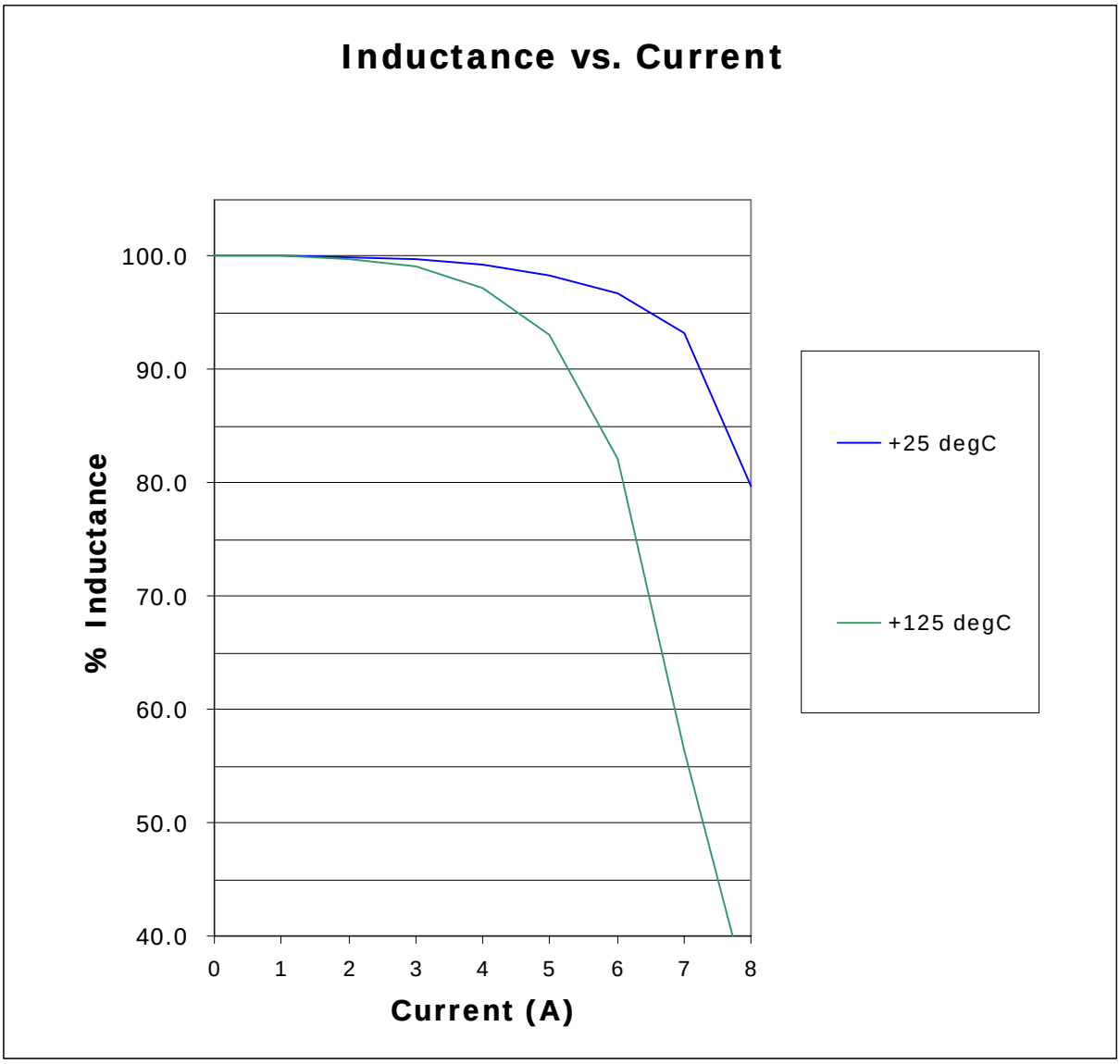
1. Isat is the current at which the inductance drops by 15%.
2. This is RoHS compliant product.
3. The max operating temperature is 130degC (ambient + temperature rise).
4. Inductance vs Current Curve as attached.

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	2009/8/7	2009/8/7

P/N:IN08052


Inductance vs. Current
% Inductance
100.0
90.0
80.0
70.0
60.0
50.0
40.0
0
1
2
3
4
5
6
7
8
Current (A)
+25 degC
+125 degC