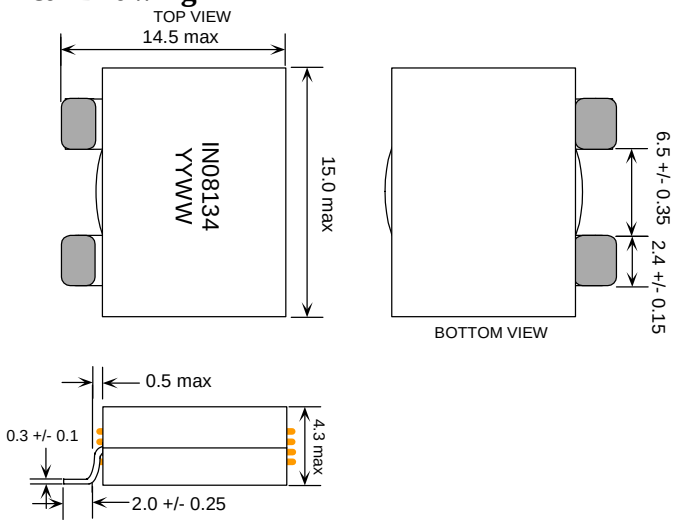
Data Sheet

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

General Information

Customer	
Part Number	IN08134
Revision	1
Description	Inductor
Date	JUL-21-2009
Reference	--
Doc Control #	--
Issue (For ICE use only)	--

Mechanical Drawing

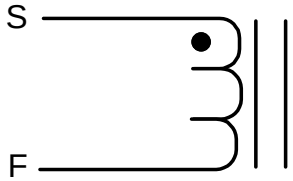


unit:mm

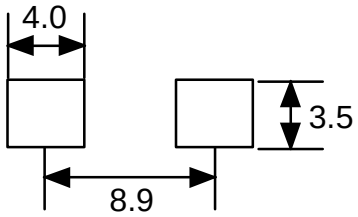
Specification

Item	*Pins*	*Spec*	*Test Condition*	Sample Test Data
Inductance	S – F	1.0 uH +/- 10%	500 kHz,1Vrms, series (0Adc)	
	S – F	0.75 uH min	500 kHz,1Vrms, series (34Adc)	
DCR	S – F	2.9 mOhms typ. 3.5 mOhms max	25 deg C	
Isat at +25degC	S – F	34 Adc max		
Isat at +100degC	S – F	26 Adc max		
Isat at +120degC	S – F	24 Adc max		
Idc	S – F	21 Adc max		

Schematic



Recommend PCB Layout



unit:mm

Remark

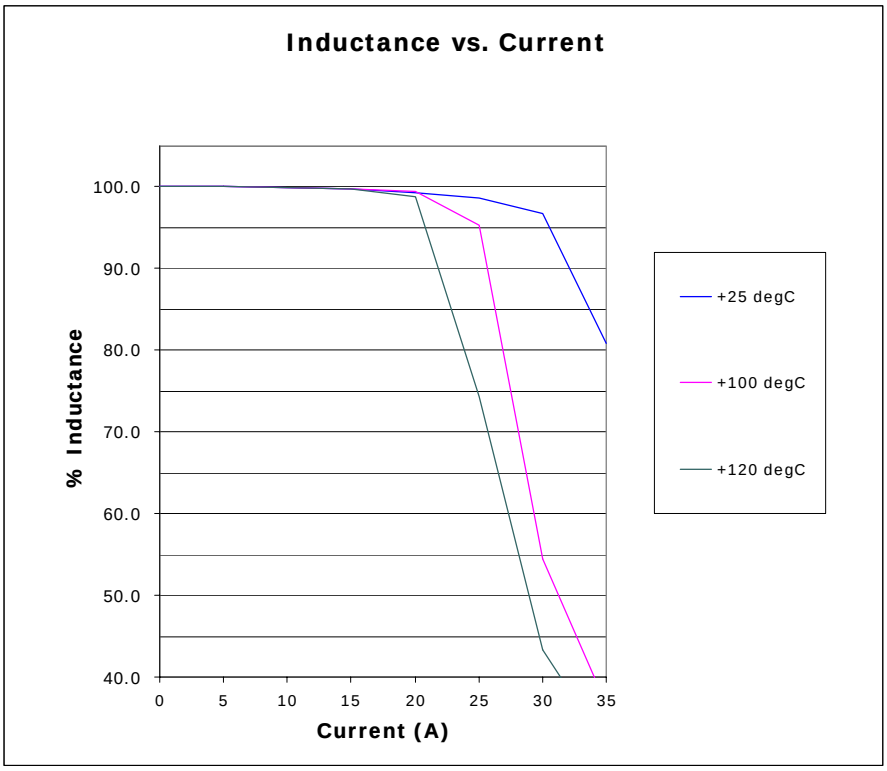
1. Isat is the current at which the inductance drops by 20% typical.
2. Idc is the current at which the temperature of the part increases by 50 deg C.
3. Meets UL94V-0
4. This is RoHS compliant product.
5. The part should come in tape & reel on mass production.
6. Lead out flatness should be within 4 mils.
7. Lead outs should be tinned all sides.
8. Operating temperature range: -40degC to +130degC.
9. Inductance vs. Current Curve, Temperature vs. Current Curve and Temperature vs. DCR as attached.

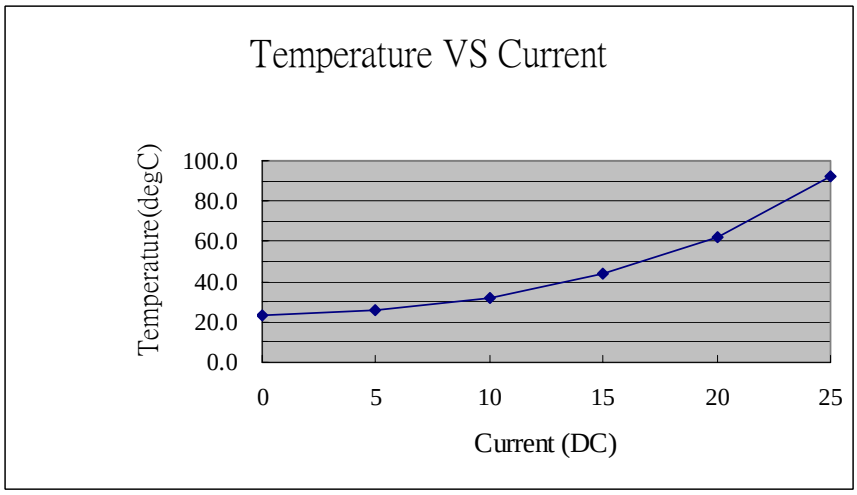
Sample approval is required before release to production. Sample specifications take precedence over customer specifications.

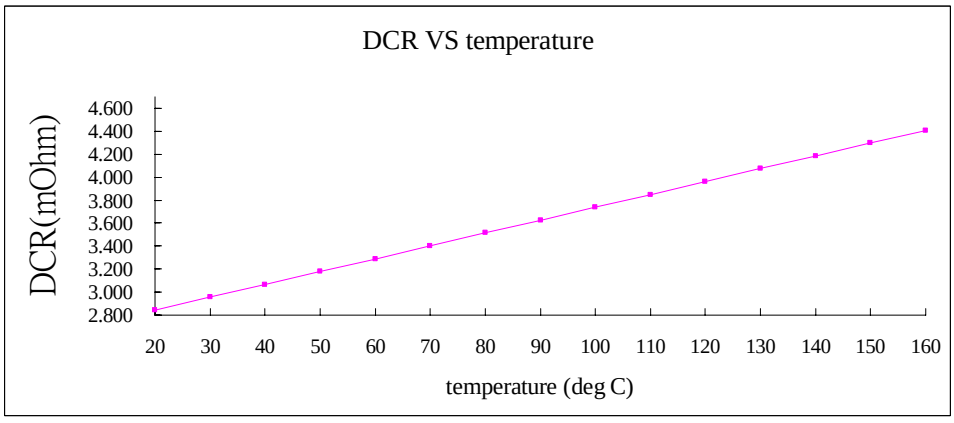
Customer Signature

Rev.	Description	PRD	CHK	APP	Date	NTFY
1	Initial release	Emily	Gary	L. L. Chou	2009/7/21	2009/7/21

P/N :IN08134


Inductance vs. Current
% Inductance
100.0
90.0
80.0
70.0
60.0
50.0
40.0
0
5
10
15
20
25
30
35
Current (A)
+25 degC
+100 degC
+120 degC


Temperature VS Current
Temperature(degC)
100.0
80.0
60.0
40.0
20.0
0.0
0
5
10
15
20
25
Current (DC)


DCR VS temperature
DCR(mOhm)
4.600
4.400
4.200
4.000
3.800
3.600
3.400
3.200
3.000
2.800
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
temperature (deg C)