Data Sheet

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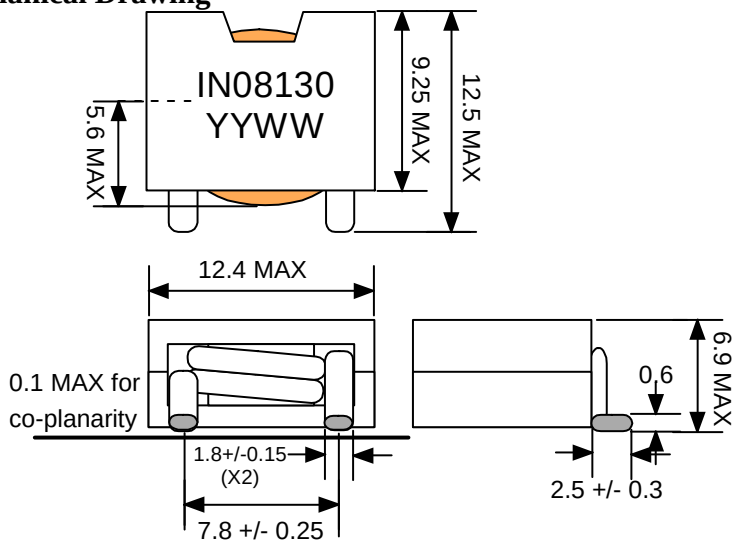
General Information

Customer	
Part Number	IN08130
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue (For ICE use only)	--

Mechanical Drawing

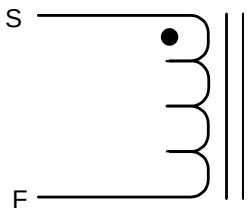


unit:mm

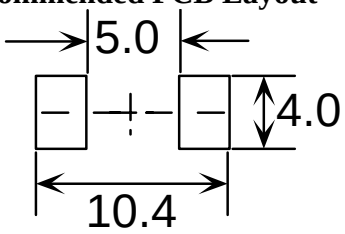
Specification

Item	*Pins*	*Spec*	*Test Condition*	Sample Test Data
Inductance @0Adc	S - F	780 nH +/- 10%	500 kHz, 1Vrms, series	
Inductance @Isat at 25degC	S - F	600 nH min	500 kHz, 1Vrms, series (41Adc)	
DCR	S - F	1.4 mOhms+/- 10%	+25 deg C	
Isat at 25degC	S - F	41 Adc max		
Isat at +125degC	S - F	30 Adc max		
Idc	S - F	23 Adc max		

Schematic



Recommended PCB Layout



unit:mm

Remark

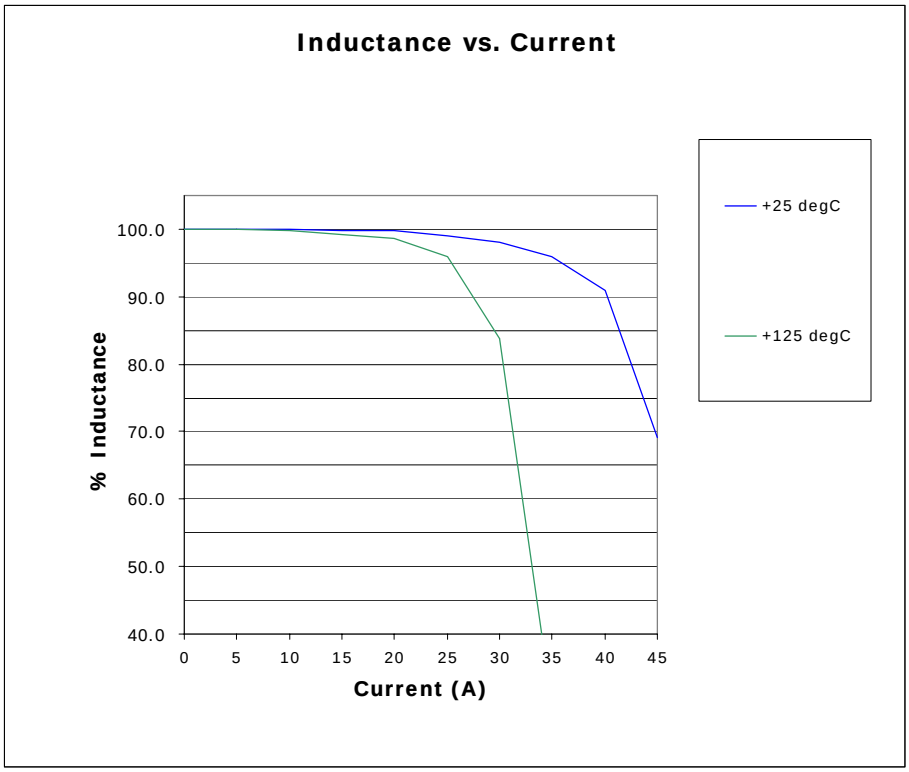
1. Isat is the current at which the inductance drops by 20%.
2. Idc is the current at which the temperature of the part increases by 50 deg C.
3. Inductance vs. Current Curve, Temperature vs. Current Curve and Temperature vs. DCR as attached.
4. This is RoHS compliant product.
5. The max operating temperature is 130degC (ambient + temperature rise).

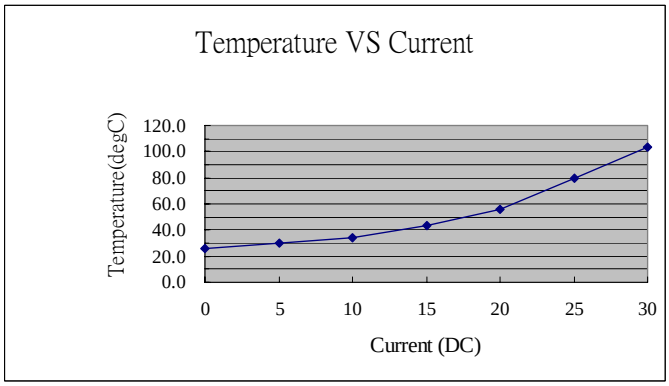
Sample approval is required before release to production. Sample specifications take precedence over customer specifications.

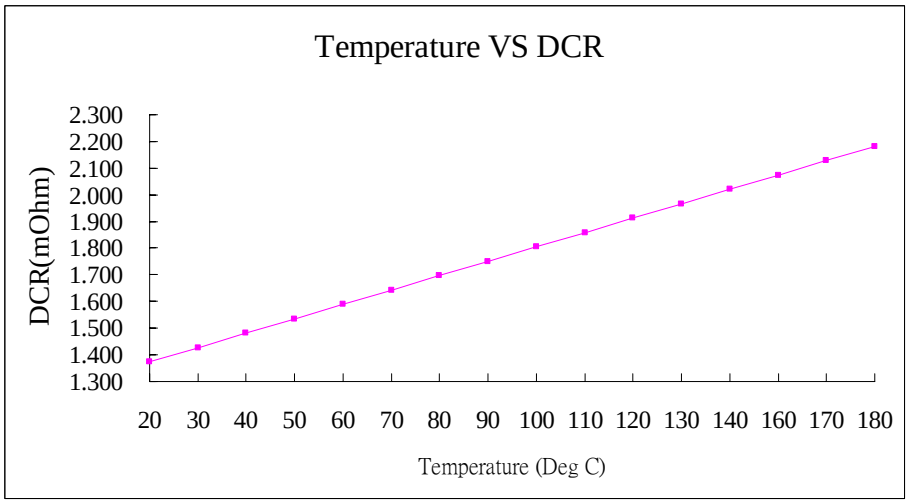
Customer Signature

Rev.	Description	PRD	CHK	APP	Date	NTFY
0	Initial release	Emily	Gary	L. L. Chou	2009/8/7	2009/8/7

P/N: IN08130


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
40
45
Current (A)
+25 degC
+125 degC


Temperature VS Current
Temperature(degC)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
0
5
10
15
20
25
30
Current (DC)


Temperature VS DCR
DCR(mOhm)
2.300
2.200
2.100
2.000
1.900
1.800
1.700
1.600
1.500
1.400
1.300
20
30
40
50
60
70
80
90
100
110
120
130
140
160
170
180
Temperature (Deg C)