Data Sheet

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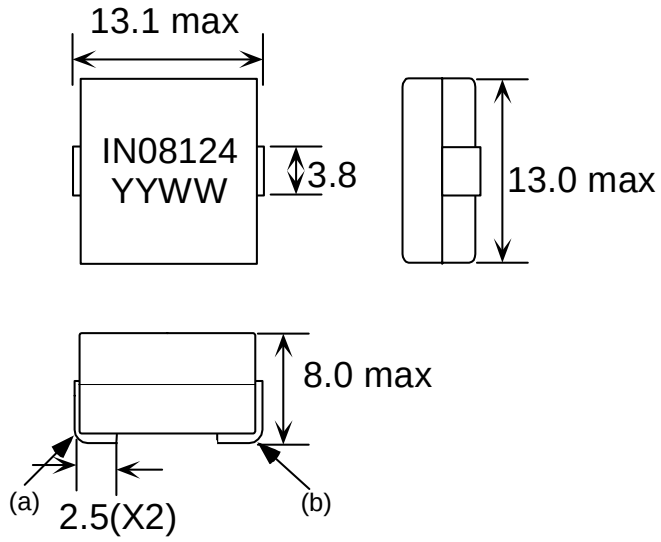
Mechanical Drawing

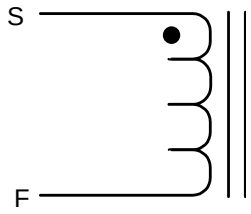


unit:mm

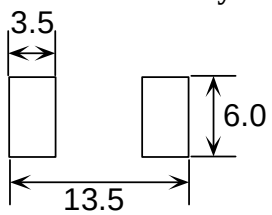
General Information	
Customer	
Part Number	IN08124
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue (For ICE use only)	--

Specification				Sample Test Data
Item	***Pins***	***Spec***	***Test Condition***	
Inductance @0Adc	S - F	320 nH +/- 10%	100 kHz, 1Vrms, series	
Inductance @Isat at 25degC	S - F	230 nH min	100 kHz, 1Vrms, series (48 Adc)	
DCR	S - F	0.45 mOhms +/- 10%	+25 deg C	
Isat at 25degC	S - F	48 Adc max		
Isat at +125degC	S - F	40 Adc max		

Schematic



Recommended PCB Layout



unit:mm

Remark

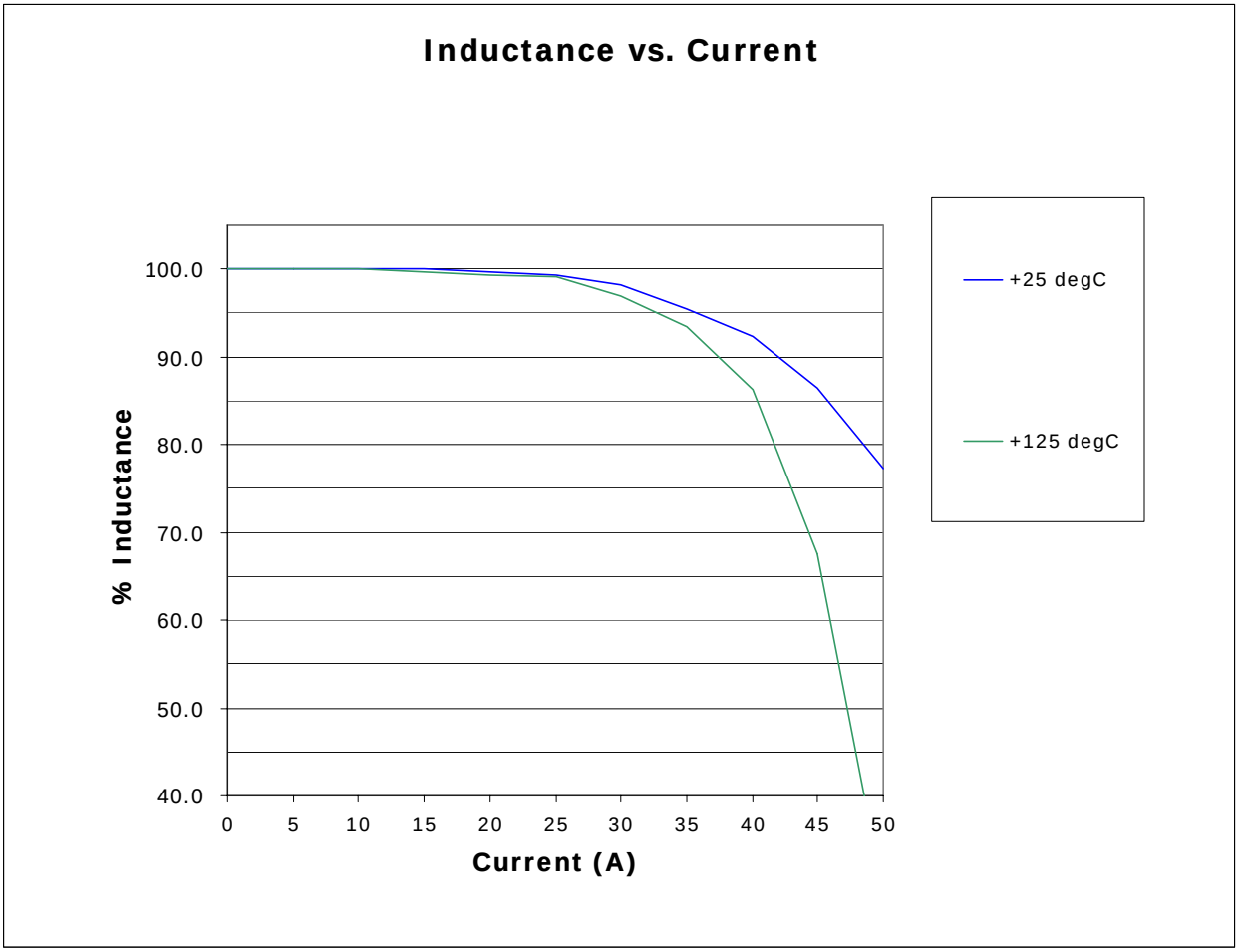
1. Isat is the current at which the inductance drops by 20%.
2. Inductance vs. Current Curve as attached.
3. The nominal DCR is measured from point (a) to point (b), as shown on the mechanical drawing.
4. This is RoHS compliant product.
5. Operating temperature is 130degC max (ambient + temperature rise).

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: IN08124


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
50
Current (A)
+25 degC
+125 degC