Data Sheet

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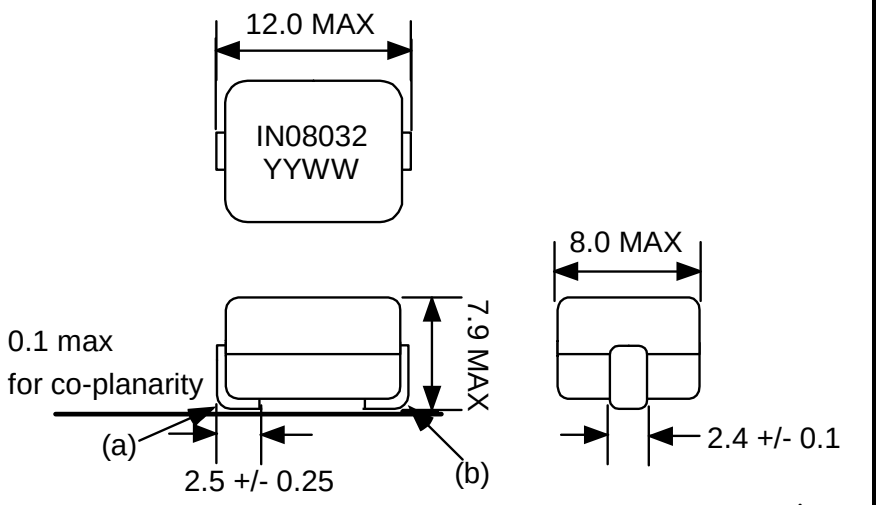
General Information

Customer	
Part Number	IN08032
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue (For ICE use only)	--

Mechanical Drawing

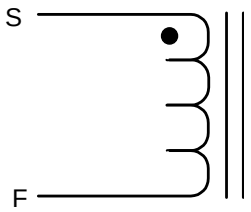


unit:mm

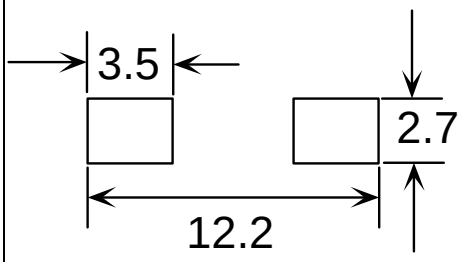
Specification

Item	*Pins*	*Spec*	*Test Condition*	Sample Test Data
Inductance @0Adc	S - F	220 nH +/- 15%	100 kHz, 1Vrms, series	
Inductance @Isat at 25degC	S - F	150 nH min	100 kHz, 1Vrms, series (48 Adc)	
DCR	S - F	0.32 mOhm +/- 10%	+25 deg C	
Isat at 25degC	S - F	48 Adc max		
Isat +100degC	S - F	43 Adc max		
Isat +125degC	S - F	40 Adc max		
Idc	S - F	33 Adc max		

Schematic



Recommended PCB Layout



unit:mm

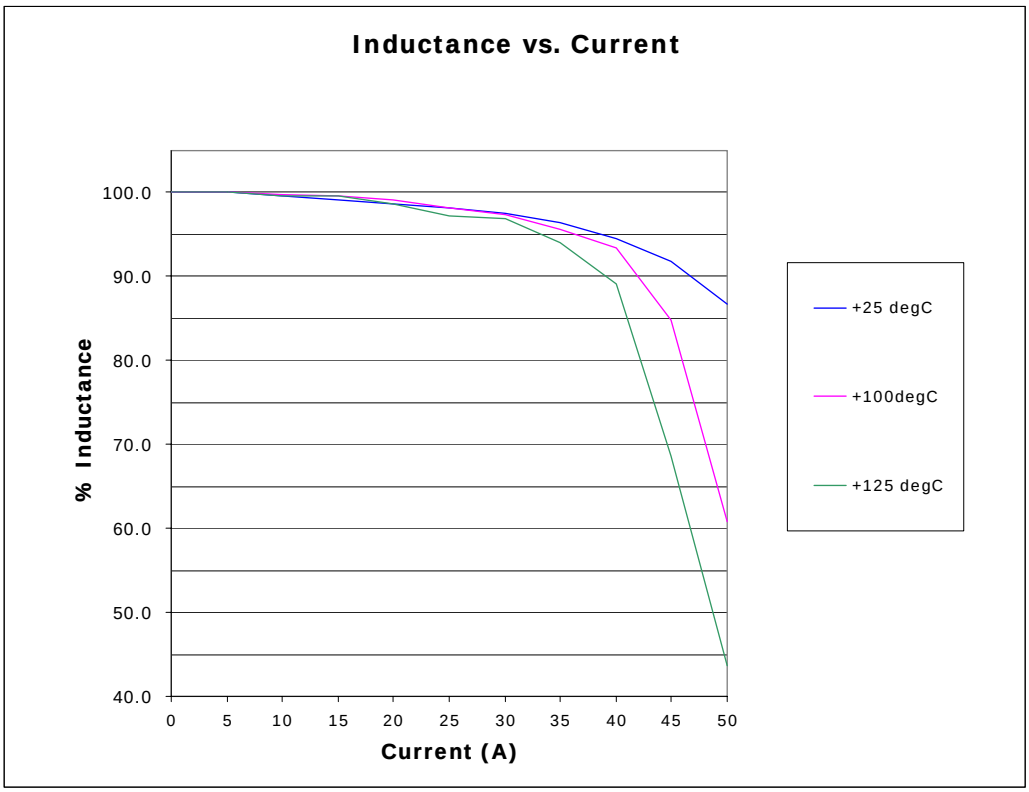
Remark

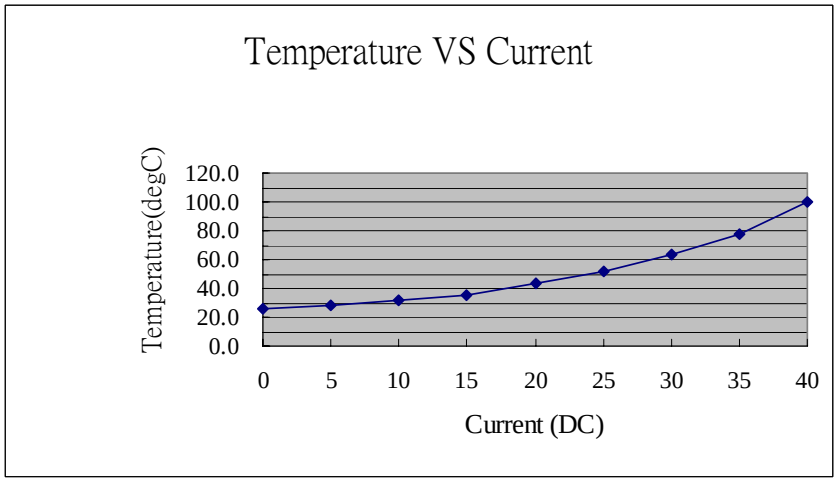
1. Isat is the current at which the inductance drops by 15%.
2. Idc is the current at which the temperature of the part increases by 50 deg C.
3. The nominal DCR is measured from point (a) to point (b), as shown on the mechanical drawing.
4. This is RoHS compliant product.
5. The max operating temperature is 130degC (ambient + temperature rise).
6. Inductance vs. Current Curve and Temperature 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


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
+100degC
+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
35
40
Current (DC)