

Data Sheet



Helping Engineer the Technology of Power

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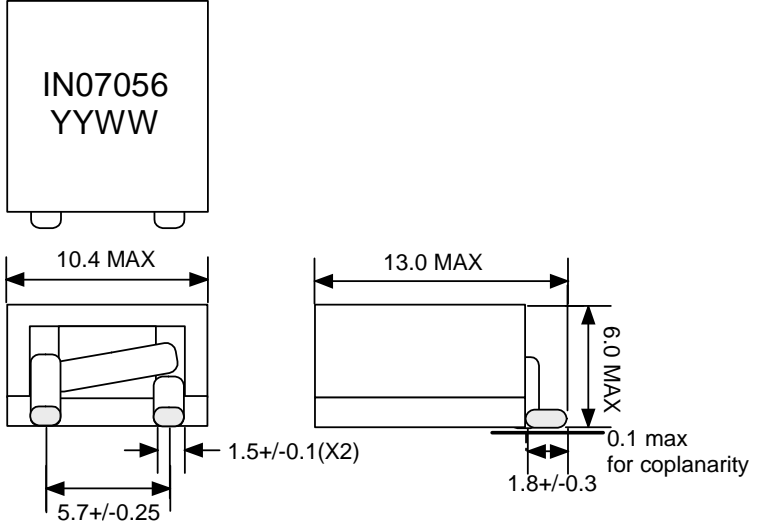
www.icecomponents.com

1165 Allgood Rd., Ste. #20, Marietta, GA 30062

General Information

Customer	
Part Number	IN07056
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue(For ICE use only)	--

Mechanical Drawing



unit:mm

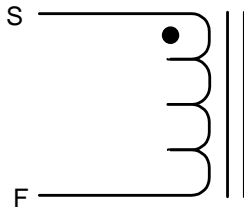
Specification

Sample Test Data

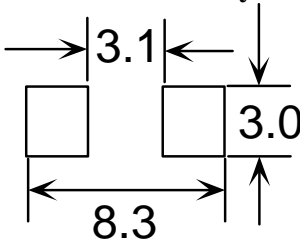
Item	Pins	Spec	Test Condition
Inductance @0A dc	S - F	380 nH +/- 10%	1 MHz, 0.1Vrms, series
Inductance @40A dc at 25degC	S - F	320 nH min	1 MHz, 0.1Vrms, series (40A dc)
DCR	S - F	0.6 5mOhm +/- 5%	+25 deg C
Isat at 25degC	S - F	46A dc	
Isat at +125degC	S - F	40 A dc	
Idc	S - F	38 A dc	

Sample Test Data	

Schematic



Recommended PCB Layout



unit:mm

Remark

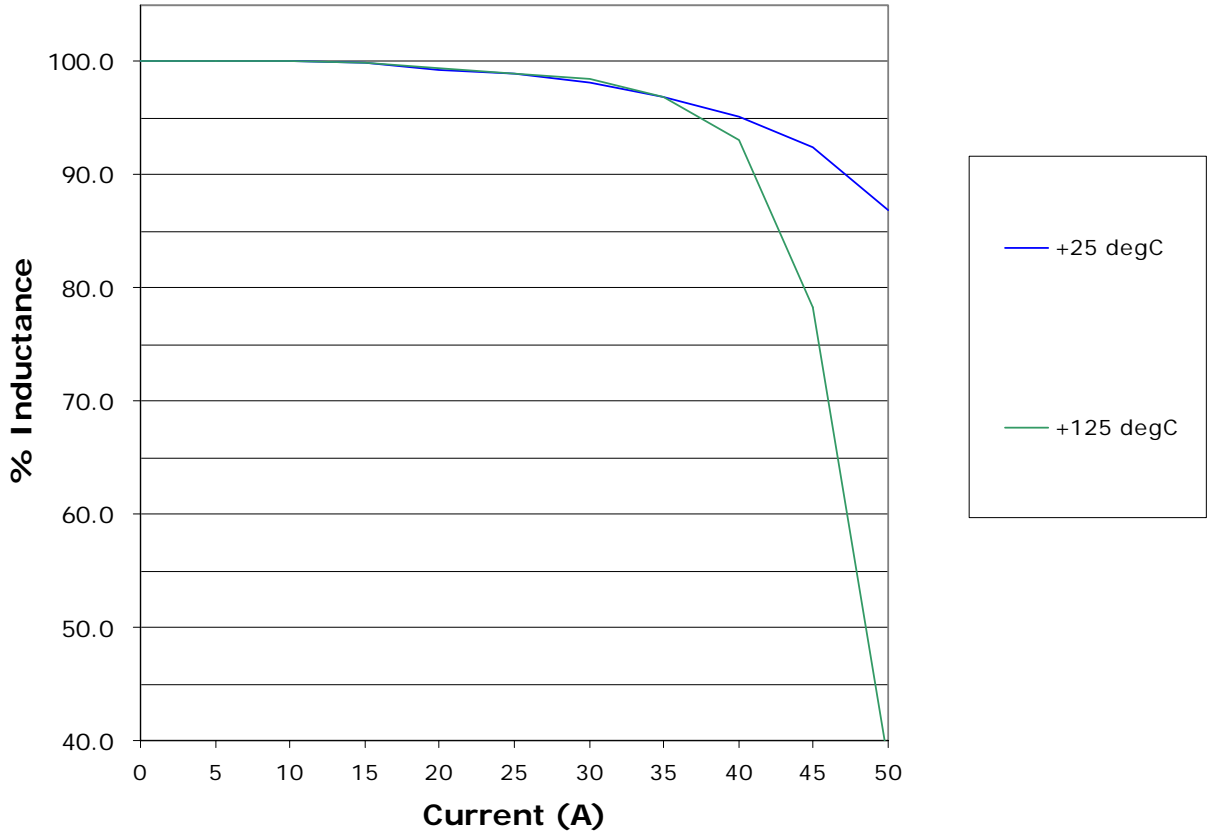
1. Isat is the current at which the inductance drops by 15%.
2. Idc is the current at which the temperature of the part increases by 50 deg C.
3. This is RoHS compliant product.
4. The operating temperature is 130degC max (ambient + temperature rise).
5. Inductance vs. Current Curve, Temperature vs. 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



Temperature VS Current

