

Data Sheet



Helping Engineer the Technology of Power

ICE Components, Inc.

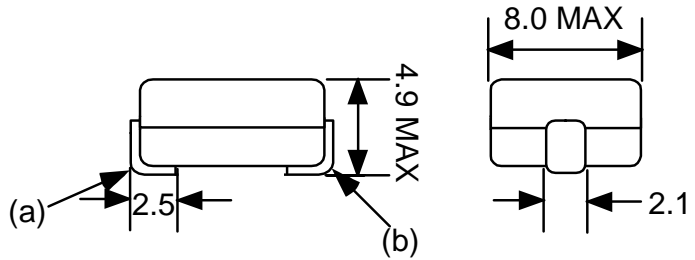
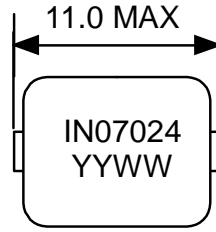
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Mechanical Drawing



unit:mm

General Information

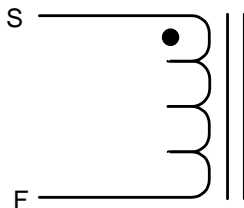
Customer	
Part Number	IN07024
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue(For ICE use only)	--

Specification

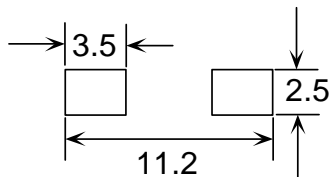
Sample Test Data

Item	Pins	Spec	Test Condition	
Inductance @0Adc	S - F	180 nH +/- 15%	1 MHz, 0.1Vrms, series	
Inductance @Isat at 25degC	S - F	122 nH min	1 MHz, 0.1Vrms, series (41 Adc)	
DCR	S - F	0.4 mOhm +/- 10%	+25 deg C	
Isat at 25degC	S - F	41 Adc max		
Isat at -40degC	S - F	45 Adc max		
Isat +125degC	S - F	32 Adc max		
Idc	S - F	38 Adc max		

Schematic



Recommended PCB Layout



unit:mm

Remark

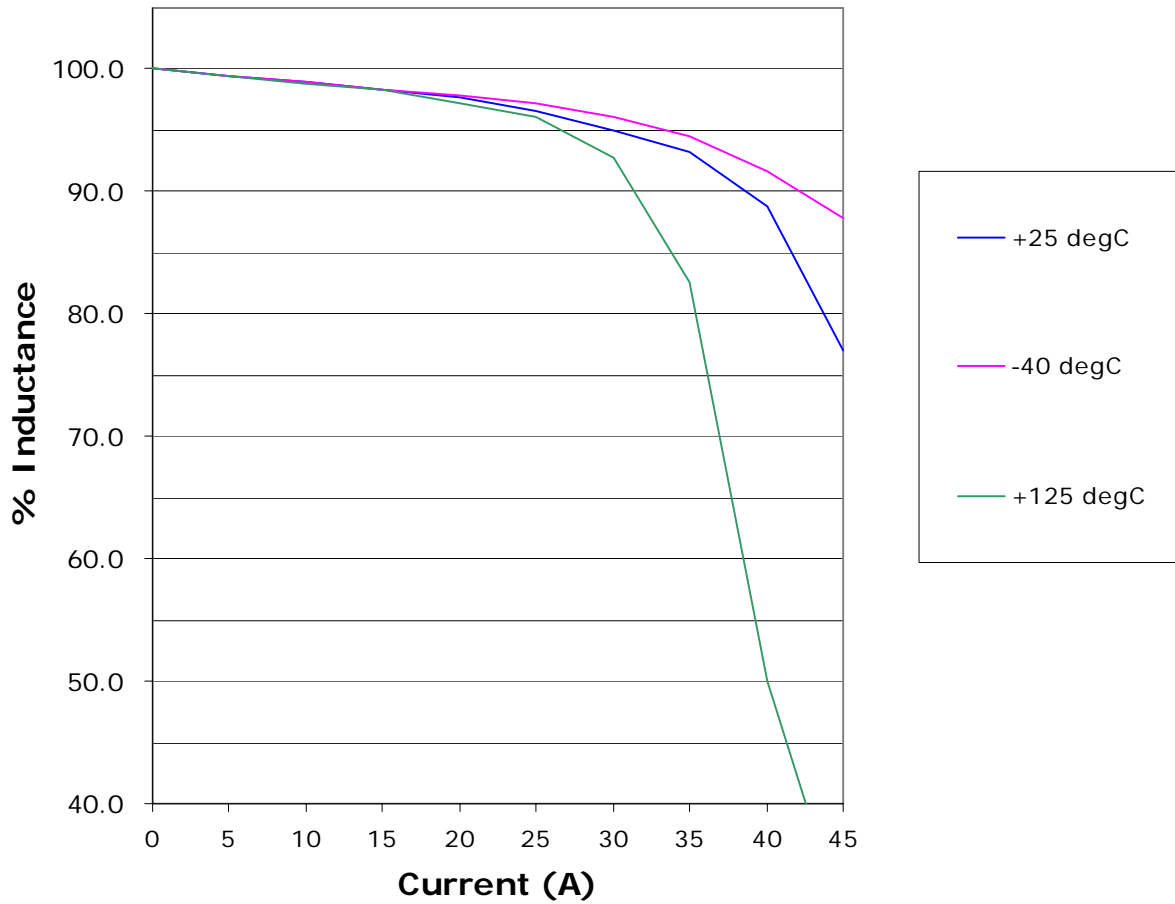
1. Isat is the current at which the inductance drops by 15% typ.
2. Idc is the current at which the temperature of the part increases by 40 deg C.
3. Inductance vs. Current Curve and Temperature vs. Current Curve as attached.
4. The nominal DCR is measured from point (a) to point (b), as shown on the mechanical drawing.
5. This is RoHS compliant product.
6. The operating temperature range is -40degC to +130degC.

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

