

Data Sheet



ICE Components, Inc.

Tel 678-560-9172 Fax 678-560-9304

cust.serv@icecomp.com

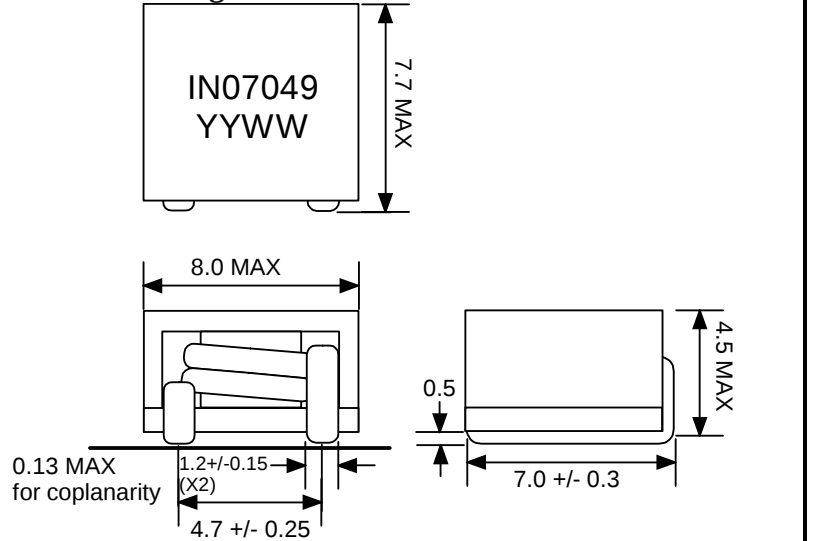
www.icecomponents.com

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

General Information

Customer	
Part Number	IN07049
Revision	0
Description	Inductor
Date	AUG-07-2009
Reference	--
Doc Control #	--
Issue(For ICE use only)	--

Mechanical Drawing



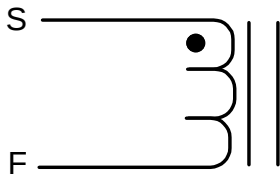
unit:mm

Specification

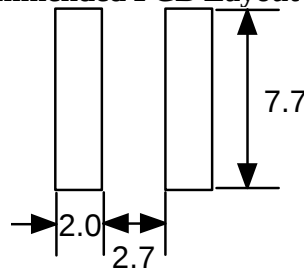
Sample Test Data

Item	Pins	Spec	Test Condition	
Inductance	S – F	500 nH +/- 10%	100 kHz, 1Vrms, series (0Adc)	
	S – F	352 nH min	100 kHz, 1Vrms, series (19Adc)	
DCR	S – F	1.5 mOhm +/- 8%	25 deg C	
Isat (+25degC)	S – F	19 Adc max		
Isat (+125degC)	S – F	15 Adc max		
Isat (-40degC)	S – F	20 Adc max		
Idc	S – F	25 Adc max		

Schematic



Recommended PCB Layout



unit:mm

Remark

1. Isat is the current at which the inductance drops by 30% typical.
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 max operating temperature is 130degC (ambient + temperature rise).
5. Inductance vs. Current Curve, Temperature vs. Current Curve and DCR 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

