

Data Sheet



Helping Engineer the Technology of Power

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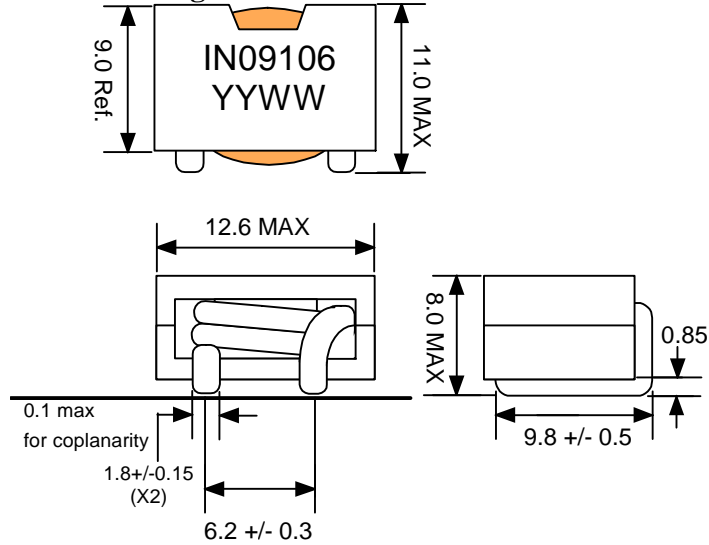
www.icecomponents.com

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

General Information

Customer	
Part Number	IN09106
Revision	0
Description	Inductor
Date	MAY-10-2012
Reference	--
Doc Control #	--
Issue (For ICE use only)	--

Mechanical Drawing



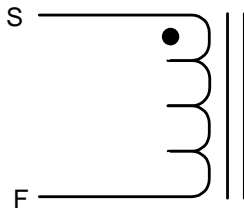
unit:mm

Specification

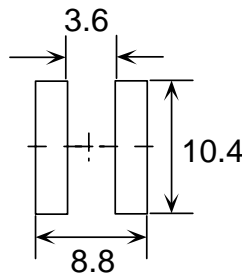
Sample Test Data

Item	Pins	Spec	Test Condition
Inductance @0Adc	S - F	500 nH +/- 10%	500 kHz, 1Vrms, series
Inductance @Isat at 25degC	S - F	360 nH min	500 kHz, 1Vrms, series (56Adc)
DCR	S - F	0.95 mOhm +/- 10%	+25 deg C
Isat at 25degC ⁴	S - F	56 Adc max	
Isat at 125degC ⁴	S - F	46 Adc max	
Idc ⁵	S - F	28 Adc max	

Schematic



Recommended PCB Layout



unit:mm

Remark

- This is RoHS compliant product.
- The operating temperature is -40degC~ +130degC (ambient + temperature rise).
- Ferrite core material.
- Isat is the current at which the inductance drops by 20%.
- Idc is the DC current which causes the part temperature to increase by approximately 40degC. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes without any forced air cooling.
- Inductance vs. Current Curve as attached.

Sample approval is required before release to production. Sample specifications take precedence over customer specifications.

Rev.	Description	PRD	CHK	APP	Date	NTFY
0	Initial release	Emily	Gary	L. L. Chou	2010/4/19	2012/5/10

Customer Signature

P/N: IN09106

Inductance vs. Current

