

# Data Sheet



Helping Engineer the Technology of Power

**ICE Components, Inc.**

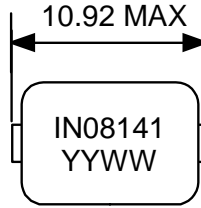
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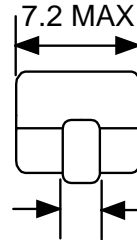
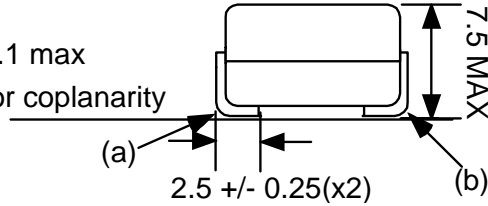
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## Mechanical Drawing



0.1 max  
for coplanarity



unit:mm

## General Information

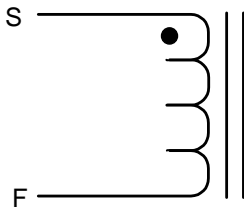
<b>Customer</b>	
<b>Part Number</b>	IN08141
<b>Revision</b>	0
<b>Description</b>	Inductor
<b>Date</b>	JUL-21-2009
<b>Reference</b>	--
<b>Doc Control #</b>	--
<b>Issue (For ICE use only)</b>	--

## Specification

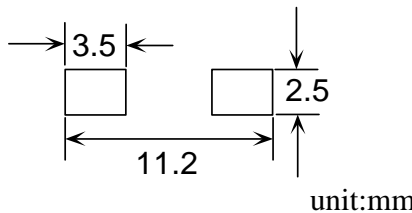
## Sample Test Data

Item	Pins	Spec	Test Condition
Inductance @0Adc	S - F	510 nH +/- 15%	100 kHz, 1Vrms, series
Inductance @Isat at 25degC	S - F	347 nH min	100 kHz, 1Vrms, series (17 Adc)
DCR	S - F	0.47 mOhm +/- 10%	+25 deg C
Isat at 25degC	S - F	17 Adc max	
Isat at +125degC	S - F	14 Adc max	
Idc	S - F	39 Adc max	

## Schematic



## Recommended PCB Layout



unit:mm

## Remark

1. Isat is the current at which the inductance drops by 20%.
2. Idc is the current at which the temperature of the part increases by 50 deg C.
3. Inductance vs. Current Curve, Temperature vs. Current Curve and DCR vs. temperature 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 max operating temperature is 130degC (ambient + temperature rise).

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	2009/7/21	2009/7/21

# P/N: IN08141

