

# Data Sheet



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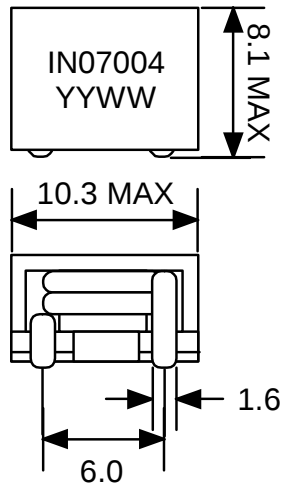
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## General Information

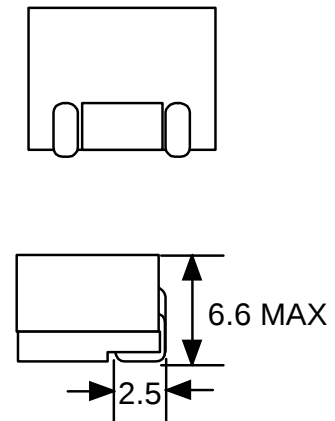
|                                |             |
|--------------------------------|-------------|
| <b>Customer</b>                |             |
| <b>Part Number</b>             | IN07004     |
| <b>Revision</b>                | 0           |
| <b>Description</b>             | Inductor    |
| <b>Date</b>                    | AUG-07-2009 |
| <b>Reference</b>               | --          |
| <b>Doc Control #</b>           | --          |
| <b>Issue(For ICE use only)</b> | --          |

## Mechanical Drawing

TOP VIEW



BOTTOM VIEW



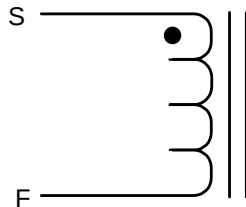
unit:mm

## Specification

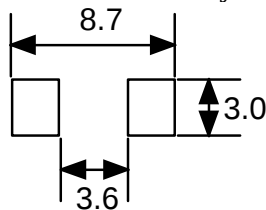
## Sample Test Data

| Item                       | Pins  | Spec              | Test Condition                   |  |
|----------------------------|-------|-------------------|----------------------------------|--|
| Inductance @0Adc           | S - F | 660 nH +/- 10%    | 100 kHz, 1Vrms, series           |  |
| Inductance @Isat at 25degC | S - F | 580 nH min        | 100 k Hz, 1Vrms, series (28 Adc) |  |
| DCR                        | S - F | 1.25 mOhm +/- 10% | +25 deg C                        |  |
| Isat at +25degC            | S - F | 28 Adc max        |                                  |  |
| Isat at +125degC           | S - F | 25 Adc max        |                                  |  |
| Idc                        | S - F | 27 Adc max        |                                  |  |
|                            |       |                   |                                  |  |
|                            |       |                   |                                  |  |
|                            |       |                   |                                  |  |
|                            |       |                   |                                  |  |
|                            |       |                   |                                  |  |

## Schematic



## Recommended PCB Layout



unit:mm

## Remark

1. Isat is the current at which the inductance drops by 20% max.
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 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 |
|      |                 |       |      |            |          |          |
|      |                 |       |      |            |          |          |
|      |                 |       |      |            |          |          |

***P/N:IN07004***

