

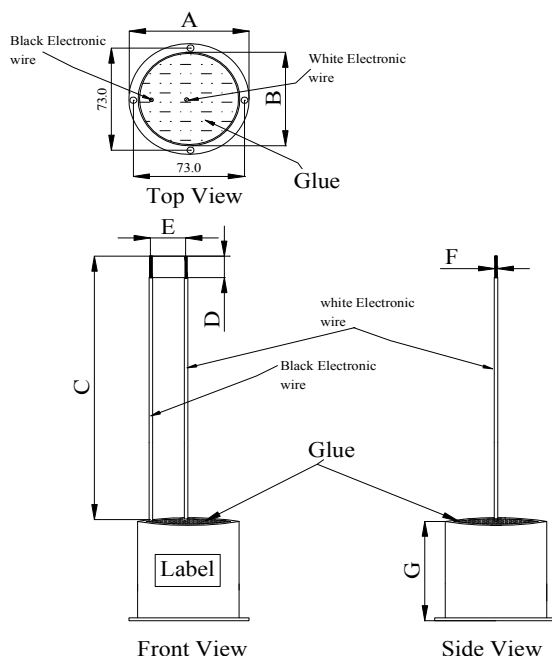


# SPECIFICATION FOR APPROVAL



|                    |                                  |                |            |
|--------------------|----------------------------------|----------------|------------|
| <b>CUSTOMER</b>    | *                                | <b>REV NO</b>  | 1.0        |
| <b>DESCRIPTION</b> | Inductor,1.50mH,10.0A,75.0mΩ DCR | <b>PAGE NO</b> | 1 of 4     |
| <b>PART NO</b>     | L30648-2P                        | <b>DATE</b>    | 2012.11.08 |

## 1.CONFIGURATIONS & DIMENSIONS:



|   |       |        |    |
|---|-------|--------|----|
| A | 86.0  | (Max.) | mm |
| B | 64.0  | (Max.) | mm |
| C | 300.0 | ± 10.0 | mm |
| D | 12.0  | ± 3.0  | mm |
| E | 18.0  | (Ref.) | mm |
| F | φ 4.3 | (Max.) | mm |
| G | 61.5  | (Max.) | mm |
| H |       |        | mm |
| I |       |        | mm |

**Note:** Marking: L30648-2P

YYWW K or N

YY:Year;WW:Week. K:KDM core;N:NCD core ;

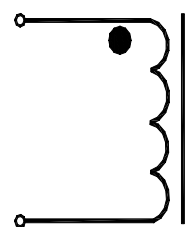
## 2.ELECTRICAL CHARACTERISTICS( (Ta=25°C):

| TEST                 | CONDITION |       |    |   |           |
|----------------------|-----------|-------|----|---|-----------|
| 1KHz 1.0V            | L         | 1.50  | mH | ± | 15%       |
| Ta=25°C              | DCR       | 75.00 | mΩ |   | (Max.)    |
| 1KHz 1.0V Isat =5.5A | L@Isat    | 1.10  | mH |   | (Typical) |
| 1KHz 1.0V Irms=10.0A | L@Irms    | 0.735 | mH |   | (Typical) |

Notes:

1. Isat: DC current that will cause inductance to drop approx.30%(Typ.)
2. Irms:DC current will caused an approx. temperature of 10°C rise(Typ.)

## 3.SCHEMATIC DIAGRAM



Note:

- (1).Wire PEWF/U(155°C) Φ2.0mm\*1P
- (2).94TS(Ref) C.W.

Operating temperature: -55°C ~+130°C

## 4.TEST INSTRUMENTS

L:WK3260B.

DCR:TH2512B

L@Isat & L@Irms : WK3260B and WK3265B.

|                    |                   |                 |
|--------------------|-------------------|-----------------|
| <b>APPROVED BY</b> | <b>CHECKED BY</b> | <b>DRAWN BY</b> |
| Richard Wen        | Royi Luo          | Anthony Yan     |



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| <b>DESCRIPTION</b> | Inductor,1.50mH,10.0A,75.0mΩ DCR | <b>PAGE NO</b> | 2 of 4     |
| <b>PART NO</b>     | L30648-2P                        | <b>DATE</b>    | 2012.11.08 |

## 5.TEST DATA FOR MECHANICAL

| TEST<br>ITEM | A<br>mm        | B<br>mm        | C<br>mm            | D<br>mm          | E<br>mm        | F<br>mm         | G<br>mm        | H<br>mm | I<br>mm | H<br>mm |
|--------------|----------------|----------------|--------------------|------------------|----------------|-----------------|----------------|---------|---------|---------|
| SPEC         | 86.0<br>(Max.) | 64.0<br>(Max.) | 300.0<br>±<br>10.0 | 12.0<br>±<br>3.0 | 18.0<br>(Ref.) | φ 4.3<br>(Max.) | 61.5<br>(Max.) |         |         |         |
| 1            | 83.36          | 61.52          | 304.21             | 12.15            | 18.55          | 3.07            | 58.48          |         |         |         |
| 2            | 83.25          | 61.58          | 303.67             | 12.67            | 17.76          | 3.15            | 58.56          |         |         |         |
| 3            |                |                |                    |                  |                |                 |                |         |         |         |
| 4            |                |                |                    |                  |                |                 |                |         |         |         |
| 5            |                |                |                    |                  |                |                 |                |         |         |         |
| 6            |                |                |                    |                  |                |                 |                |         |         |         |
| 7            |                |                |                    |                  |                |                 |                |         |         |         |
| 8            |                |                |                    |                  |                |                 |                |         |         |         |
| 9            |                |                |                    |                  |                |                 |                |         |         |         |
| 10           |                |                |                    |                  |                |                 |                |         |         |         |
| AVERAGE      | 83.305         | 61.550         | 303.940            | 12.410           | 18.155         | 3.110           | 58.520         |         |         |         |

REMARK:

|                                   |                               |                                |
|-----------------------------------|-------------------------------|--------------------------------|
| <b>APPROVED BY</b><br>Richard Wen | <b>CHECKED BY</b><br>Royi Luo | <b>DRAWN BY</b><br>Anthony Yan |
|-----------------------------------|-------------------------------|--------------------------------|



# SPECIFICATION FOR APPROVAL



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| <b>PART NO</b>     | L30648-2P                        | <b>DATE</b>    | 2012.11.08 |

## 6. TEST DATA FOR ELECTRICAL

| TEST<br>ITEM | L<br>mH          | DCR<br>mΩ           | L@Isat<br>mH            | L@Irms<br>mH            |  |  |  |
|--------------|------------------|---------------------|-------------------------|-------------------------|--|--|--|
| CON.         | 1KHz 1.0V        | Ta=25℃              | 1KHz 1.0V Isat<br>=5.5A | 1KHz 1.0V<br>Irms=10.0A |  |  |  |
| SPEC         | 1.50<br>±<br>15% | 75.00<br><br>(Max.) | 1.10<br><br>(Typical)   | 0.735<br><br>(Typical)  |  |  |  |
| 1            | 1.51             | 63.22               | 1.10                    | 0.740                   |  |  |  |
| 2            | 1.53             | 63.38               | 1.11                    | 0.750                   |  |  |  |
| 3            |                  |                     |                         |                         |  |  |  |
| 4            |                  |                     |                         |                         |  |  |  |
| 5            |                  |                     |                         |                         |  |  |  |
| 6            |                  |                     |                         |                         |  |  |  |
| 7            |                  |                     |                         |                         |  |  |  |
| 8            |                  |                     |                         |                         |  |  |  |
| 9            |                  |                     |                         |                         |  |  |  |
| 10           |                  |                     |                         |                         |  |  |  |
| AVERAGE      | 1.520            | 63.300              | 1.105                   | 0.745                   |  |  |  |

## REMARK:

|                                   |                               |                                |
|-----------------------------------|-------------------------------|--------------------------------|
| <b>APPROVED BY</b><br>Richard Wen | <b>CHECKED BY</b><br>Royi Luo | <b>DRAWN BY</b><br>Anthony Yan |
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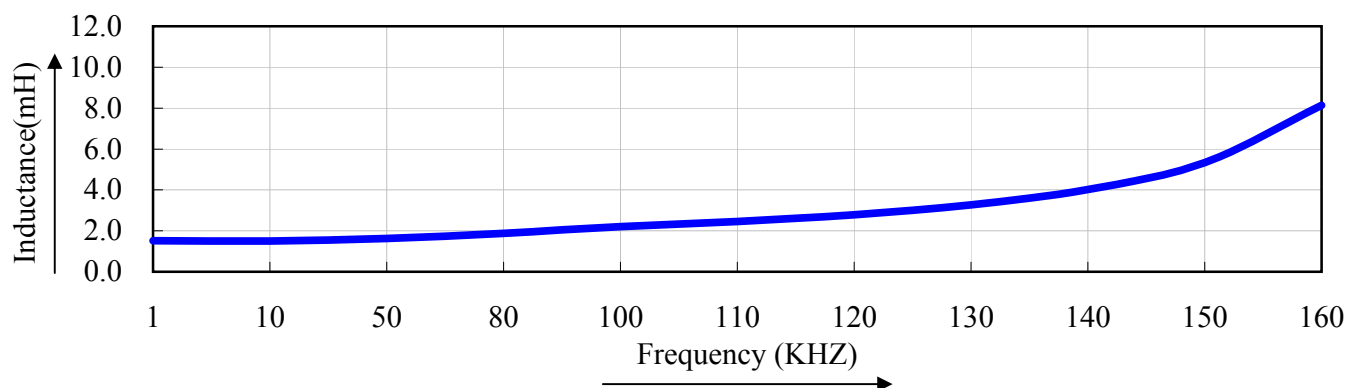
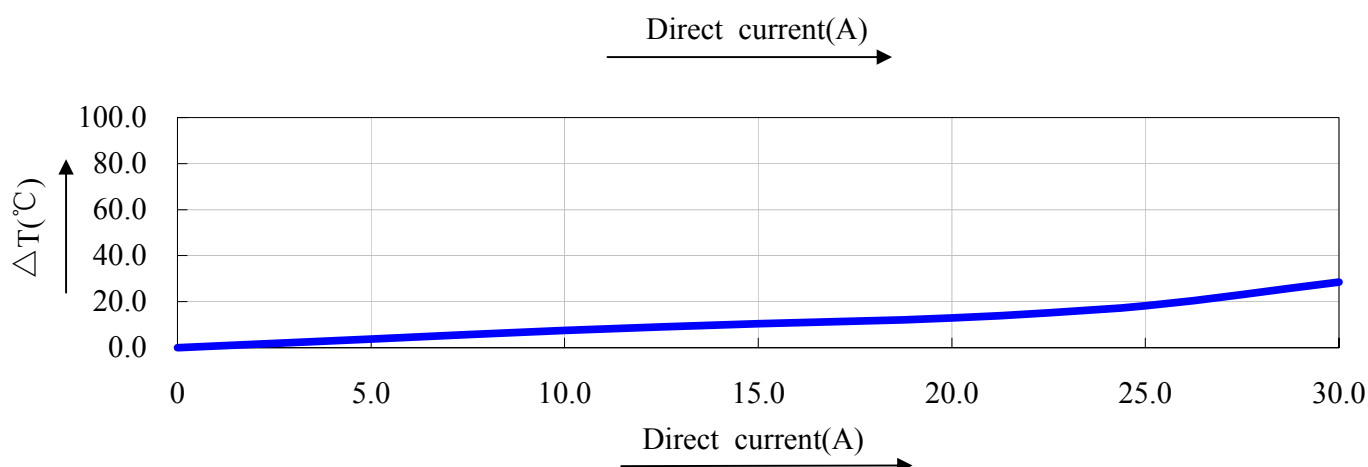
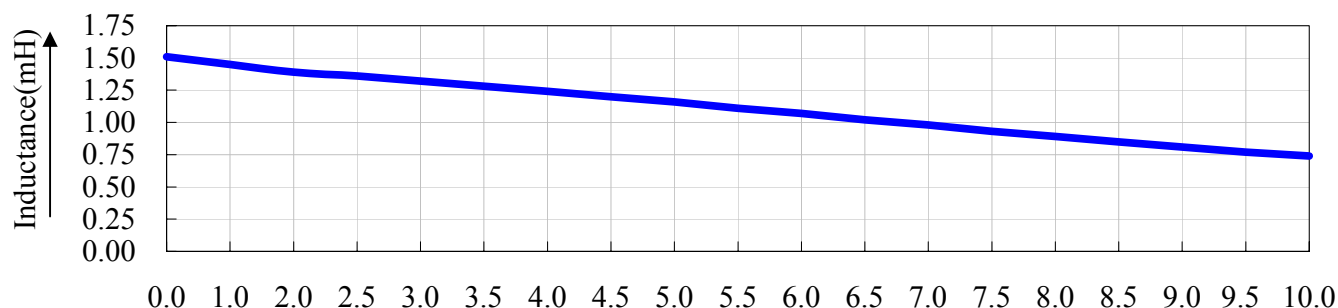


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| <b>PART NO</b>     | L30648-2P                           | <b>DATE</b>    | 2012.11.08 |

## 7.ELECTRIC CHARACTERISTICS.



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Richard Wen

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