



零件承认书

SPECIFICATION FOR APPROVAL

客户名称: _____
 客户料号: _____
 增益料号: AL0410-102K-LF
 规格描述: 色环电感 0410 1.0mH±10%
 日期: 2018/10/30
 版本: A

增益签核:

| 制订 | 审核 | 核准 |
|----|-----|-----|
| 张翔 | 刘业明 | 柯文学 |

客户签核:

| 工程 | 审核 | 核准 |
|----|----|----|
| | | |



东莞市增益实业有限公司

地址: 东莞市塘厦镇林村塘厦大道北552号

电话: 0769-87321000

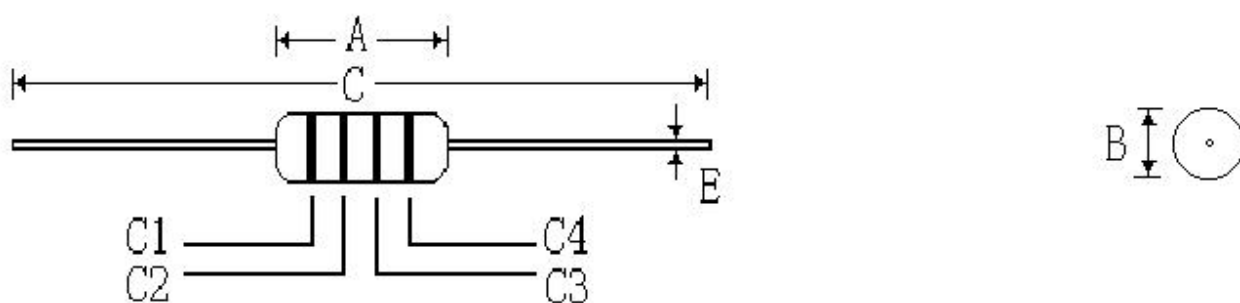
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|-------|------------|
| 物料类型: | 色码电感 |
| 日期: | 2018/10/30 |
| 版本: | A |
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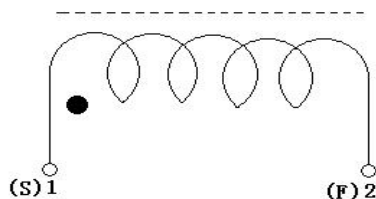
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| CUSTOMER | | MADE | |
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| DESCRIPTION | FIXED INDUCTORS | REVISION | A |

1、 SHAPE & DIMENSION (UNIT: m/m)



| | | | | | | | |
|----|---------|----|---------|----|----|----|----|
| C1 | 棕色 | C2 | 黑色 | C3 | 红色 | C4 | 银色 |
| A | 10.0MAX | D | | | | | |
| B | 5.0MAX | E | 0.6±0.1 | | | | |
| C | 62±2 | F | | | | | |

2. ELECTRICAL SCHEMATICS



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3.ELECTRICAL SPECIFICATION & TEST INSTRUMENTS

| MEAS. ITEM | L | Q | DCR | RatedDCCurrent | |
|----------------|-----------|-------------|-------|----------------|--|
| UNIT | mH | | Ω | mA | |
| SPEC | 1.0±10% | 40Min | 14Max | | |
| TEST FREQ | 252KHz/1V | 0.796MHz/1V | | | |
| TEST STRUMENTS | HP-4285A | HP-4285A | 502BC | | |

4.MATERIAL LIST

| No | ITEM | Material | | Vendor | Rating | UL File | ROHSstate |
|----|--------------|--------------|----------------------|-----------|--------|---------|-----------|
| 1 | CORE | FC1 3×6 | FCI | HENGCI | 150℃ | | Yes |
| 2 | WIRE WINDING | 2UEW Φ0.07mm | URNS:248 Ts (REF) | HOILUEN | 130℃ | EI64409 | Yes |
| 3 | EPOXY RESIN | NC-G | | homeTown | 200℃ | | Yes |
| 4 | PNI | Φ0.6 | CP | BAI CHUAN | 130℃ | | Yes |

或同等材质供应商

※REMARK※

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5. TEST DATA FOR PREPRODUCTION SAMPLE

| MEAS.ITEM | L (mH) | Q | DCR (Ω) |
|-------------|----------------|-------|---------------------|
| SPEC | 1.00 \pm 10% | 40MIN | 14.0MAX |
| 1 | 1.01 | 60 | 11.4 |
| 2 | 1.01 | 61 | 11.1 |
| 3 | 0.99 | 58 | 11.5 |
| 4 | 1.01 | 58 | 11.5 |
| 5 | 1.02 | 63 | 11.8 |
| 6 | 1.01 | 62 | 11.5 |
| 7 | 1.00 | 57 | 11.8 |
| 8 | 1.01 | 62 | 11.4 |
| 9 | 1.03 | 58 | 11.6 |
| 10 | 1.01 | 60 | 11.4 |
| \bar{x} | | | |
| R | | | |
| YOUR SAMPLE | | | |

TEST CONDITION: TEMP: 25°C(REF.) R.H.: 60%(REF.)

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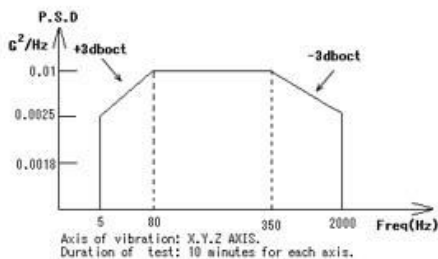
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6.RELIABILITY TEST METHOD

6-1. MECHANICAL

| TEST ITEM | SPECIFICATION | TEST DETAILS |
|------------------------------|--|---|
| Terminal pull strength | 9.8(N)MIN | A pulling load should be gradually applied to the leads in a downward direction and should be monitored the value at the point of destroy. |
| Terminal bending strength | 1CYCLE MIN | A specified load of 4.9(N) should be suspended, From the terminal then slowly inclined the 90°C, and then return to normal position ,The consecutive bends shall be done in the opposite directions.(Total 1 cycle) |
| Dropping | $\Delta L/L0 \leq \pm 5\%$ $\Delta Q/Q0 \leq \pm 20\%$ There is no evidence of any mechanical failures | The sample shall be dropped on a concrete floor once from 1 meter height (39 inches) Total 3 cycles. |
| Vibration | $\Delta L/L0 \leq \pm 5\%$ $\Delta Q/Q0 \leq \pm 20\%$ There is no evidence of any mechanical failures |  <p>Axis of vibration: X,Y,Z AXES. Duration of test: 10 minutes for each axis.</p> |
| Resistance to soldering heat | There is no evidence of any mechanical failures | The sample should be immersed to a depth of 1.5mm below the lower core surface into solder at a temperature of 260°C (+10,-0)for a duration of 5seconds(+1,-0). |

6-2.ELECTRICAL

| TEST ITEM | SPECIFICATION |
|-----------------------|---|
| Insulation Resistance | The insulation resistance between core to coil is over 100MΩ at500V, 3SEC. |
| Withstand Voltage | Apply AC 500V between core to coil for one minute there shall not be any abnormality. |

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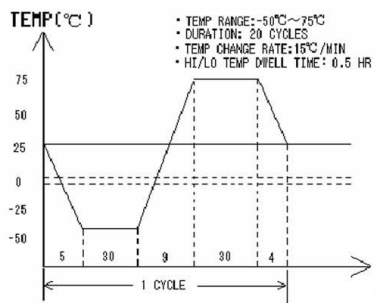
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6-3. ENVIROMENT CHARACTERISTICS

| TEST ITEM | SPECIFICATION | TEST DETAILS |
|--------------------------|--|---|
| High temperature storage | $\Delta L/L0 \leq \pm 5\%$ $\Delta Q/Q0 \leq \pm 25\%$ There is no evidence of any mechanical failures | The coil should be stored at an ambient temperature of $+85 \pm 2^\circ\text{C}$ for 72 hours ,after which the measurement should be made. |
| Low temperature storage | $\Delta L/L0 \leq \pm 5\%$ $\Delta Q/Q0 \leq \pm 25\%$ There is no evidence of any mechanical failures | The coil should be stored at an ambient temperature of $-40 \pm 2^\circ\text{C}$ for 500 hours ,after which the measurement should be made. |
| Thermal shock | $\Delta L/L0 \leq \pm 5\%$ $\Delta Q/Q0 \leq \pm 30\%$ There is no evidence of any mechanical failures |  <ul style="list-style-type: none"> • TEMP RANGE: $-50^\circ\text{C} \sim 75^\circ\text{C}$ • DURATION: 20 CYCLES • TEMP CHANGE RATE: $15^\circ\text{C}/\text{MIN}$ • HI/LO TEMP Dwell TIME: 0.5 HR |
| Humidity life test | $\Delta L/L0 \leq \pm 5\%$ $\Delta Q/Q0 \leq \pm 30\%$ There is no evidence of any mechanical failures | The rated current shall be applied to the coil at an ambient temperature $+40 \pm 2^\circ\text{C}$ with relative humidity of 90% for 1000 hours. |

6-4. SAFETY

| TEST ITEM | SPECIFICATION | TEST DETAILS |
|----------------|-----------------------------|---|
| Over load test | No abnormal smoking or fire | The twice current of the rated dc current should be applied to the coil for 5 min |

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