

零件承认书

SPECIFICATION FOR APPROVAL

客户名称: _____

客户料号: _____

增益料号: AL0510-102K-LSBD

规格描述: 色码电感 0510 1.0mH±10%

日期: 2021/2/25

版本: A1

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1-911

电话: 0769-87321000

传真: 0769-87891229

物料类型:

色码电感


日期:

2021/2/25

版本:

A1

图面规格变更履历表


| 客户 | | 0 | 料号 | 品名 | | |
|--|------|------|-----------|-------|-----------|-----|
| 客户版本 | 增益版本 | 变更内容 | 日期 | 制定 | 审核 | 核准 |
| | A | 初版 | 2021/2/25 | 张翔 | 刘业明 | 柯文学 |
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|  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1-911 电话：0769-87321000 传真：0769-87891229 | | | | 物料类型： | 色码电感 | |
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Dongguan Zeny Industrial Co., LTD.

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|--------------|-------------------|-------------|--|
| CUSTOMER | | FULL | |
| MODEL No. | | APPROVED | |
| PART No. | ALH0510-102K-LSBD | CONDITIONAL | |
| DATE | 2021-2-25 | APPROVED | |
| REVISION No. | A1.0 | REJECTED | |

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|  | APPROVED BY | |
| | CHECKED BY | |
| | MADE BY | 张翔 |

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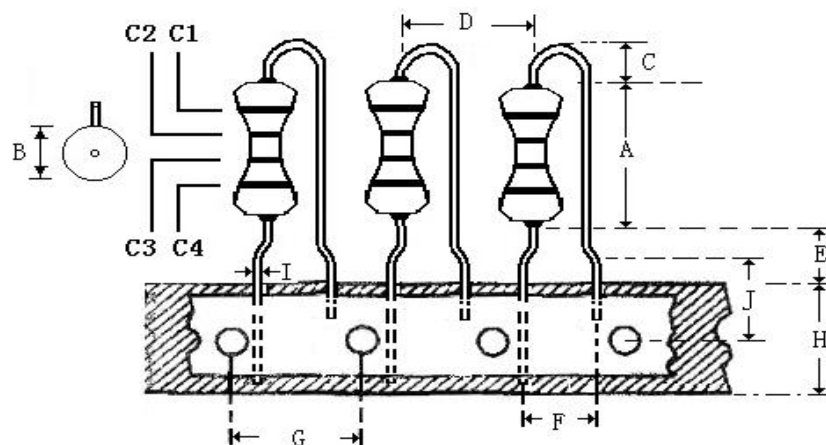
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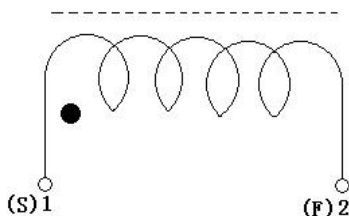
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1、SHAPE & DI



| | | | | | | | |
|----|---------|----|----------|----|----------|----|----------|
| C1 | 棕色 | C2 | 黑色 | C3 | 红色 | C4 | 银色 |
| A | 10.0MAX | D | 13.5±1.0 | G | 12.7±0.5 | J | 18.0±2.0 |
| B | 5.0MAX | E | 12.0MAX | H | 18.0±1.0 | | |
| C | 2.5MAX | F | 5.0±0.5 | I | 0.6±0.1 | | |

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 \pm 10% | 35Min | 6.0Max | 100MAX | |
| TEST FREQ | 0.796MHz/1v | 0.796MHz/1v | | | |
| TEST | HP-4285A | HP-4285A | 502BC | | |

4. MATERIAL LIST

| No | Item | Material | Vendor | Rating | UL File | ROHSstate |
|----|--------------|----------------------------|----------------------------|------------------|---------|-----------|
| 1 | Core | DRWW 4 \times 6 B 2.0 | D6 hualicheng | 150 $^{\circ}$ C | | Yes |
| 2 | Wire Winding | 2UEW Φ 0.10mm | TURNS:233 Ts HOILUEN | 130 $^{\circ}$ C | E164409 | Yes |
| 3 | EPOXY RESIN | NC-G | homeTown | 200 $^{\circ}$ C | | Yes |
| 4 | PIN | Φ 0.6 | CP BAI CHUAN | 130 $^{\circ}$ C | | 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% | 35MIN | 6.0MAX |
| 1 | 1.02 | 58 | 4.5 |
| 2 | 1.02 | 55 | 4.4 |
| 3 | 1.03 | 58 | 4.3 |
| 4 | 0.98 | 55 | 4.4 |
| 5 | 1.03 | 63 | 4.3 |
| 6 | 0.99 | 50 | 4.4 |
| 7 | 1.03 | 58 | 4.4 |
| 8 | 1.02 | 50 | 4.3 |
| 9 | 0.98 | 66 | 4.3 |
| 10 | 1.03 | 57 | 4.4 |
| \bar{x} | | | |
| R | | | |
| YOUR SAMPLE | | | |

TEST CONDITION: TEMP: 20°C(REF.) R.H.: 60%(REF.)

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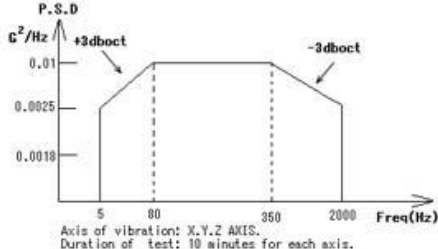
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6.RELIABILITY TEST METHOD

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 |  |
| 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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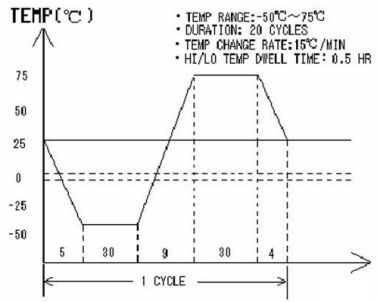
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6-3. ENVIROMENT CHARACTERISTICS

| 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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