



CH SHENYANG ELECTRONICS

APPROVAL APPLICATION

|                    |                    |        |
|--------------------|--------------------|--------|
| 厂商编码<br>Number in: | ONA-CM003-V        |        |
| 客户编码<br>Item Name: | /                  |        |
| 产品名称<br>Type:      | CM Inductance      |        |
| 规格型号<br>Client:    | 7A 1500uH ±30% 10K |        |
| 编制日期<br>Date:      | 2024.09.10         | REV: A |
| 修改日期<br>Date:      |                    | REV:   |

|                             |       |        |            |
|-----------------------------|-------|--------|------------|
| APPROVED FOR CUSTOMER 客户认可: |       |        |            |
| ED 工程                       | TD 质量 | R&D 研发 | APPROVE 批准 |
|                             |       |        |            |
| PRODUCERS CONFIRMED 制造商认可:  |       |        |            |
| ED 工程                       | TD 质量 | R&D 研发 | APPROVE 批准 |
|                             |       |        |            |

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principal: YUE HUAN HE

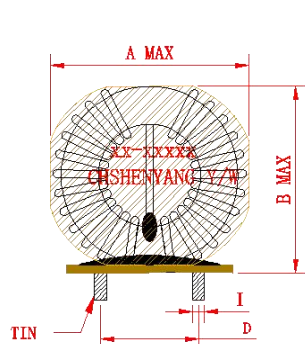
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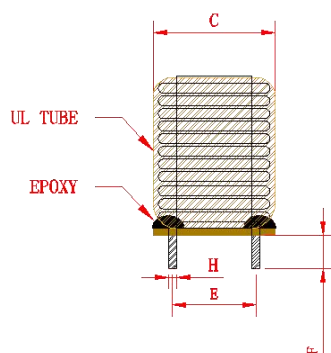
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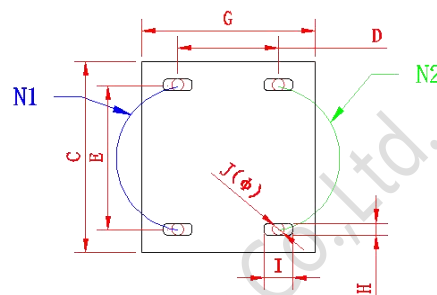
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|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------|------------|------------|
| <div> CH SHENYANG ELECTRONICS</div> <div>APPROVAL APPLICATION</div> |                             | Customer:                          | /          |            |
|                                                                                                                                                      |                             | REV:                               | A          |            |
| product name/Type:                                                                                                                                   |                             | CM Inductance / 7A 1500uH ±30% 10K | Date:      | 2024.09.10 |
| HISTORY OF CHANGED 修改记录                                                                                                                              |                             |                                    |            |            |
| REV 版本                                                                                                                                               | DESCRIPTION OF CHANGES 修改内容 | CHANGE REASON 原因                   | DATE 日期    |            |
| A                                                                                                                                                    | New issue                   | /                                  | 2024.09.10 |            |
|                                                                                                                                                      |                             |                                    |            |            |
|                                                                                                                                                      |                             |                                    |            |            |
|                                                                                                                                                      |                             |                                    |            |            |
|                                                                                                                                                      |                             |                                    |            |            |



Front view



Side view



Bottom view

| NO.        | Model (uH)               | A (max) | B (max) | C (max) | D (±0.5) | E (±0.5) | F (±0.5) | G (±0.3) | H (±0.3) | I (±0.2) | J (±0.2) | Weight (g) |
|------------|--------------------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|------------|
| ONA-CM03-V | 7A 1500uH $\pm 30\%$ 10K | 23      | 21      | 14      | 8        | 10       | 3.5      | 16       | /        | /        | 1.2      | 10.8       |

“A” Significant size; Mark: ONA-CM003-V CHSHENYANG Y/W

注意事项:

#### Process requirements

- 1, Product Appearance 100% Inspection Test;
- 2, Electrical Performance 100% Inspection Test;
- 3, RoHS、UL94 (in line with EU standards) ;
- 4, Reliable Performance Reference AEC-Q200 Standard Test;
- 5, Storage temperature and humidity:  $<35^{\circ}\text{C}$ ; 35-65% RH
- 6, working temperature range  $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$ ;



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/

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2024.09.10

## Electrical characteristic

| NO | Non-woven<br>en 挡墙 | Wire(电流) | Turns<br>(匝比) | START<br>起线 | FINISH<br>尾线 | Tape 胶<br>带 | Case 套管 |   | Note |
|----|--------------------|----------|---------------|-------------|--------------|-------------|---------|---|------|
|    |                    |          |               |             |              |             | S       | F |      |
| N1 | /                  | 7A       | 1: 1          | 1           | 2            | /           | /       | / |      |
| N2 | /                  | 7A       | 1: 1          | 4           | 3            | /           | /       | / |      |

| Project                                   | unit | Test Conditions                              | MIN            | MAX  | test instrument | Note |
|-------------------------------------------|------|----------------------------------------------|----------------|------|-----------------|------|
| L 1-2&4-3                                 | uH   | 10KHz,0.3V, Ser                              | 1050           | 1950 | GKT3259         | ●    |
|                                           |      |                                              | 1500±30%       |      |                 |      |
| LK 1-2&4-3                                | uH   | 10KHz,0.3V, Ser                              | 3.0（REF）       |      | GKT3259         | ○    |
| Fight Voltage（AC*1.2，<br>3S， Can replace） | mA   | PRI-SEC,AC2000V,1min,0.5mA<br>，50/60Hz       | No abnormality |      | 19053           | ○    |
|                                           | mA   | PRI/SEC-Core,AC1500V,1min,0<br>.5mA ,50/60Hz | No abnormality |      | 19053           | ○    |
| DCR 1-2&4-3                               | m Ω  | 25℃                                          | 8（REF）         |      | GKT3259         | ○    |
| Insulation resistance                     | G Ω  | PRI-SEC DC1000V,10s,1G Ω                     | No abnormality |      | 19053           | ○    |
|                                           | G Ω  | PRI/SEC-Core<br>DC1000V,10s,1G Ω             | No abnormality |      | 19053           | ○    |

“●”代表关键特性 Important performance, “○”代表一般特性 General performance



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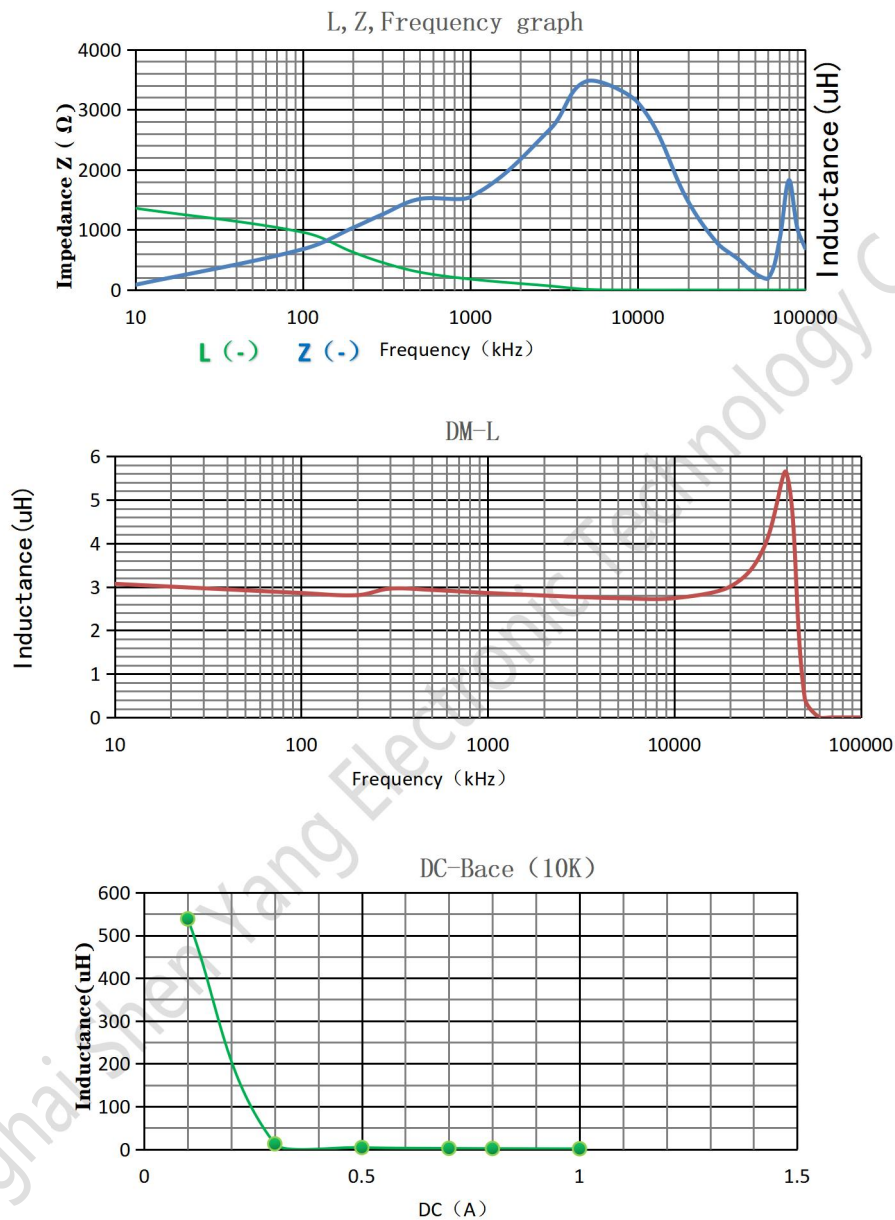
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Electrical performance test (Reference data)



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|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------|-------------------|-------------------|----------------------|
|                                                                                                                                                      |                                             |                                                                      | Date:             | A                 |                      |
| product name/Type:                                                                                                                                   | CM Inductance / 7A 1500uH ±30% 10K          |                                                                      | Date:             | 2024.09.10        |                      |
| Reliability Test                                                                                                                                     |                                             |                                                                      |                   |                   |                      |
| 序号                                                                                                                                                   | 应力方式                                        | 检测方法                                                                 | 数量 Size           | Number of Lots 批数 | 接受标准 Accept Criteria |
| 1                                                                                                                                                    | Electrical performance 前后电气性能               | AEC-Q200/规格书要求 (Specification)                                       | all               | all               | 0 Fails              |
| 2                                                                                                                                                    | High Temperature Exposure (Storage) 高温存储    | MIL-STD-202 Method 108 (125℃, 1000H)                                 | 77                | 1                 | 0 Fails              |
| 3                                                                                                                                                    | Temperature Cycling 温度循环                    | JESD22 Method JA- 104 (-40~125℃, Every 30minutes)                    | 77                | 1                 | 0 Fails              |
| 4                                                                                                                                                    | Biased Humidity 偏高湿度                        | MIL-STD-202 Method 103 (85℃ 85%RH, 1000H)                            | 77                | 1                 | 0 Fails              |
| 5                                                                                                                                                    | High Temperature Operation Life Test 高温运行寿命 | MIL-PRF-27 (125℃, 1000H, Rating Current)                             | 77                | 1                 | 0 Fails              |
| 6                                                                                                                                                    | External Visual 外观                          | MIL-STD-883 Method 2009 (Specification)                              | all               | all               | 0 Fails              |
| 7                                                                                                                                                    | Physical Dimension 结构尺寸                     | JESD22 Method JB- 100 (Specification)                                | 30                | 1                 | 0 Fails              |
| 8                                                                                                                                                    | Terminal Strength (Leaded) 端子强度 (引脚)        | MIL-STD-202 Method 211 (17.7N, 60s)                                  | 30                | 1                 | 0 Fails              |
| 9                                                                                                                                                    | Resistance to Solvents 溶剂抵抗                 | MIL-STD-202 Method 215 (The solvent, Brush 2-3 times)                | 5                 | 1                 | 0 Fails              |
| 10                                                                                                                                                   | Mechanical Shock 机械冲击                       | MIL-STD-202Method 213 (100G, 6ms, 3 axes and 6 directions, 3 times ) | 30                | 1                 | 0 Fails              |
| 11                                                                                                                                                   | Resistance to Soldering Heat 耐热焊接           | MIL-STD-202 Method 210 (260℃, 10S, 0.5inch)                          | all               | all               | 0 Fails              |
| 12                                                                                                                                                   | Vibration 震动                                | MIL-STD-202 Method 204 (10HZ-2000HZ-10HZ, 5G, 4H, 3 Directions.)     | 30                | 1                 | 0 Fails              |
| 13                                                                                                                                                   | ESD 静电放电                                    | AEC-Q200-002 or ISO/DIS (6KV Air discharge)                          | 15                | 1                 | 0 Fails              |
| 14                                                                                                                                                   | Solderability 可焊性                           | J-STD-002 (8H*155℃, 235℃, 5s, >95%)                                  | 45                | 1                 | 0 Fails              |
| 15                                                                                                                                                   | Flammability 可燃性                            | UL-94 (UL report)                                                    | 6                 | 1                 | V-1 or V-0           |
| 16                                                                                                                                                   | Board Flex 板弯曲                              | AEC-Q200-005 ( (D) x=2 mm, 60+5S)                                    | 30                | 1                 | 0 Fails              |