

SPECIFICATION FOR APPROVAL

CUSTOMER: _____

PART NO: _____

DESCRIPTION: FDMC4020-2R2M-NP

SUBMIT NO: _____

QUANTITY: _____

DATE: _____

| | | |
|-------------------------------------|---------|----------|
| 方瑞达电子（香港）有限公司 | | |
| FONRITA ELECTRONICS (H.K) CO., LTD. | | |
| MADE | CHECKED | APPROVED |
| 张达 | 黎敏 | 邓锋 |

| | | |
|----------------------|---------|----------|
| 贵公司承认栏 | | |
| APPROVED BY MANGEMNT | | |
| MADE | CHECKED | APPROVED |
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方瑞达电子（香港）有限公司

FONRITA ELECTRONICS (H.K) CO., LIMITED

地址：广东省深圳市龙华新区大浪鹤山路口光浩工业园F栋4楼

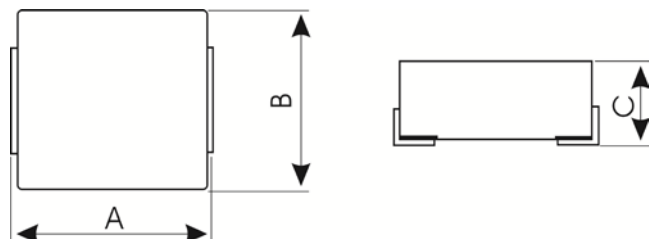
TEL:0755-26617190

FAX:0755-26162625

| | | | |
|-----------------------|-------------------|-------------------|------------------|
| CUSTOMER : | | PART NO. | |
| SPECIFICATIONS | | DATE | |
| PART NAME | DATA SHEET | SPEC(TYPE) | FDMC4020-2R2M-NP |

TEST INSTRUMENT

- 1. HP 4285A PRECISION LCR METER
- 2. WAYNE PMA3260A LCR METER
- 3. ZENTECH 9052 PROGRAMMABLE AUTO SAFETY TESTER
- 4. WAYNE KERR 3265A CURRENT SOURCE



| ELECTRICAL CHARACTERISTICS | | | | | DIMENSION | | |
|----------------------------|-----------|------------------|--------------|--------------|-------------|---------|--------|
| ITEM | L (μH) | RDC(mΩ) | Isat typ.(A) | Irms typ.(A) | A | B | C |
| SPEC. | 100KHz/1V | Max. | | | m/m | m/m | m/m |
| | 2.2±20% | 61 ⁺⁰ | 6.0 | 4.0 | 4.3±0.3 | 4.0±0.2 | 2.0Max |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| \bar{X} | | | | | | | |
| R | | | | | | | |
| TEST CONDITION | | TEMP: | 25°C | | HUMIDITY: | 50% | |
| DRAWN BY | | | CHECKED BY | | APPROVED BY | | |
| 张达 | | | 黎敏 | | 邓锋 | | |



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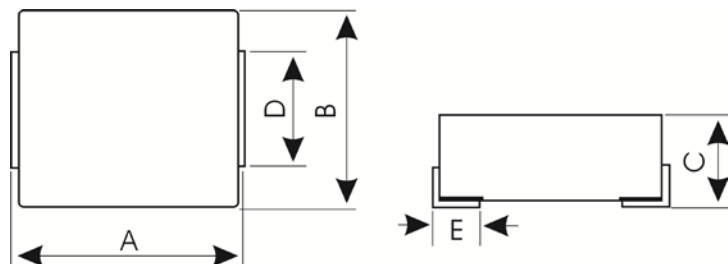
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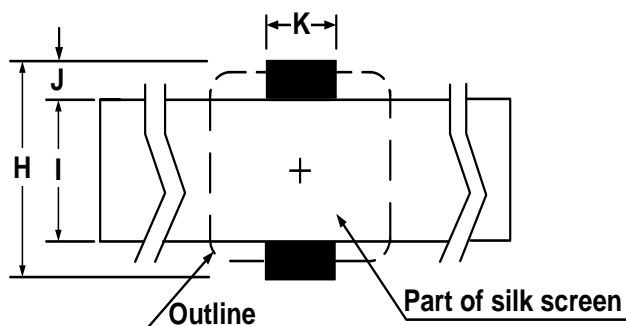
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|-----------------------|------------|------------|------------------|
| CUSTOMER : | | PART NO. | |
| SPECIFICATIONS | | DATE | |
| PART NAME | DATA SHEET | SPEC(TYPE) | FDMC4020-2R2M-NP |

■ SHAPE&DIMENSION



| | |
|---|-----------|
| A | 4.30 ±0.3 |
| B | 4.00±0.2 |
| C | 2.00Max. |
| D | 2.00 ±0.3 |
| E | 1.20±0.3 |

■ LAND PATTERN



| | |
|---|------|
| H | 5.20 |
| I | 2.20 |
| J | 1.50 |
| K | 2.50 |

■ MARK



MARK COLOR : BLACK or WHITE



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| | | | |
|-----------------------|----------------------|-------------------|------------------|
| CUSTOMER : | | PART NO. | |
| SPECIFICATIONS | | DATE | |
| PART NAME | MATERIAL LIST | SPEC(TYPE) | FDMC4020-2R2M-NP |

■ MATERIAL LIST

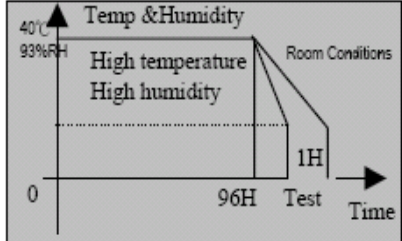
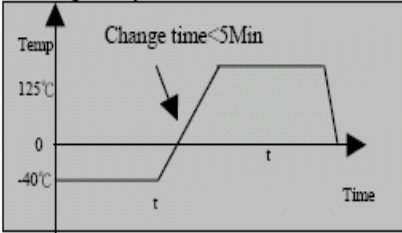
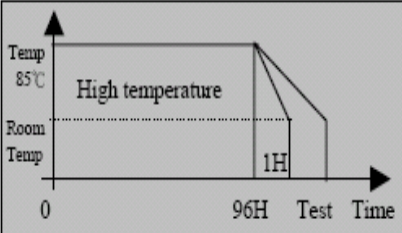
| ITEM | MATERIAL | SUPPLIER OF MATERIAL | UL NO. |
|------------------|----------------------------|----------------------------------------|------------|
| CORE | | HORNG YIH ELECTRONICS | |
| | | CO., LTD. OR EQUIA | |
| WIRE | MAGNET WIRE 2UEW ϕ | JUNG SHING WIRE CO LTD | E174837 |
| | | PACIFIC ELECTRICAL CO., LTD. | E84081 |
| | | TA YA ELECTRICAL CO., LTD DIFA | E84201 |
| | | RONSEN SUPER MICRO-WIER CO., LTD | E164502(R) |
| Wire Temperature | 180°C | | |
| Classification | | | |
| SOLDER | Sn/99.7 | SHENMAO TECHNOLOGY CO., LTD. OR EQUIA | |
| TUBE | UL ϕ | WOER HEAT-SHRINKABLE MATERIAL OR EQUIA | E180908 |
| BASE | | WINKING INDUSTRIAL CO., LTD. | |
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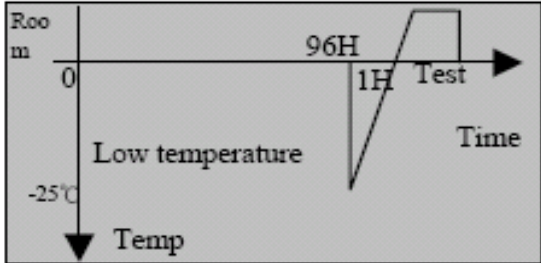
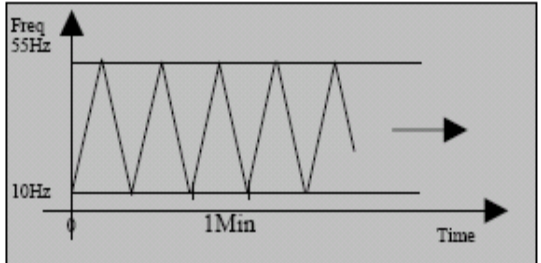
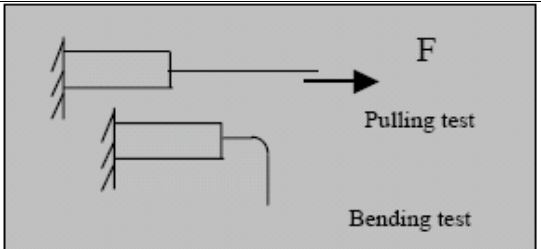
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| CUSTOMER : | | PART NO. | |
| SPECIFICATIONS | | DATE | |
| PART NAME | RELIABILITY TEST | SPEC(TYPE) | FDMC4020-2R2M-NP |
| ITEM | REQUIRED CHARACTERISTICS | TEST METHOD | |
| HUMIDITY TEST | <ol style="list-style-type: none"> 1. NO DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ | <ol style="list-style-type: none"> 1. DRY OVEN AT A TEMPERATURE OF $40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ FOR 24 HOURS. 2. MEASUREMENTS AT THE END OF THIS PERIOD 3. EXPOSURE: TEMPERATURE: $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, HUMIDITY: $93 \pm 3\% \text{RH}$ TIME: 96 ± 2 HOURS. 4. TESTED WHILE THE SPECIMENS ARE STILL IN THE CHAMBER 5. TESTED NOT LESS THAN 1 HOUR, NOR MORE THAN 2 HOURS AT ROOM TEMPERATURE.  | |
| THERMAL SHOCK TEST | <ol style="list-style-type: none"> 1. NO CASE DEFORMATION OR APPEARANCE CHANGE IN 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ FOR T:WEIGHT $\leq 28\text{G}:15\text{Min}$; $28\text{G} \leq \text{WEIGHT} \leq 136\text{G}:30\text{Min}$ |  | |
| HIGH TEMPERATURE STORAGE TEST | <ol style="list-style-type: none"> 1. NO DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ | TEMPERATURE: $85 \pm 2^{\circ}\text{C}$ TIME: 96 ± 2 HOURS TESTED NOT LESS THAN 1 HOUR, NOR MORE THAN 2 HOURS AT ROOM TEMPERATURE.  | |

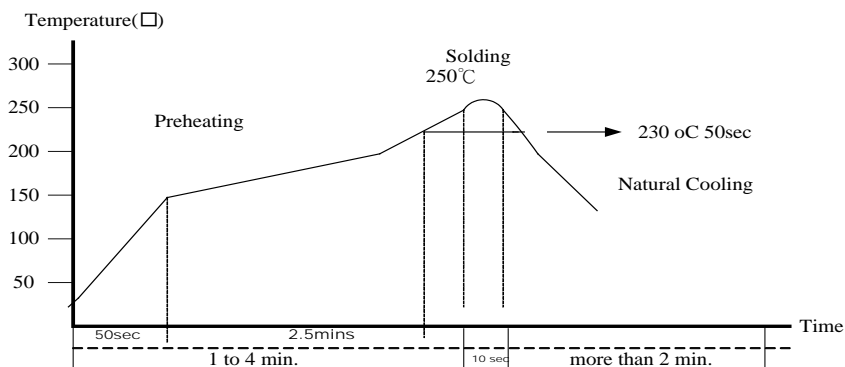


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| CUSTOMER : | | PART NO. | |
| SPECIFICATIONS | | DATE | |
| PART NAME | FDMC TYPE | SPEC(TYPE) | FDMC4020-2R2M-NP |
| LOW TEMPERATURE STORAGE TEST | 1. NO DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ | TEMPERATURE:-25±2°C TIME: 96 ± 2 HOURS TESTED NOT LESS THAN 1 HOUR, NOR MORE THAN 2 HOURS ATTEMPERATURE. ROOM TEMPERATURE.  | |
| VIBRATION TEST | 1. NO CASE DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ | APPLY FREQUENCY 10~55Hz. 0.75mm AMPLITUDE IN EACH OF PERPENDICULAR DIRECTION FOR 2 HOURS. (TOTAL 6 HOURS)  | |
| TERMINAL STRENGTH | 1. TERMINAL SHOULD NOT COME OUT 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ | A. PULL FORCE:0.45Kg;THE FORCE SHALL BE APPLIED GRADUALLY TO THE TERMINAL AND THEN MAINTAINED FOR 10 SECONDS. C. WIRE-LEAD BEND:0.23Kg, THE RATE OF BENDING SHALL BE APPROXIMATELY 3 SECONDS PER BEND IN EACH DIRECTION. THE LOAD SHALL BE SUSPENDED AT A POINT WITHIN 1/4 INCH FROM THE FREE END OF THE TERMINAL.  | |



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| HEAT ENDURANCE OF FLOW SOLDERING | 1. NO CASE DEFORMATION OR CHANGE IN APPEARANCE. 2. $\Delta L/L \leq 10\%$ 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$ | 1. DIP PADS IN FLUX THEN DIP IN SOLDER POT AT $260 \pm 5^\circ\text{C}$ FOR 10 SECONDS. 2. SOLDER: Sn (96)/Ag(4) 3. FLUX: ROSIN FLUX | |
| SOLDERABILITY TEST | TERMINALS AREA MUST HAVE 95% SOLDER COVERAGE. | 1. DIP PADS IN FLUX THEN DIP IN SOLDER POT AT $245 \pm 5^\circ\text{C}$ FOR 5 SECONDS. 2. SOLDER: Sn(96)/Ag(4) 3. FLUX: ROSIN FLUX | |

RECOMMENDED REFLOW PROFILE



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