




承认书

SPECIFICATION FOR APPROVAL

| | | | |
|---------------|-----------------|--------------|---|
| CUSTOMER: | | | |
| CUSTOMER P/N: | | | |
| Cybermax P/N: | CMCW2012F100KTT | | |
| DRAWN NO. : | CM18102701 | | |
| DATE: | 18.10.27 | REVISION NO. | A |

Signature:

| APPROVED BY | CHECKED BY | DRAWN BY |
|---|---|---|
|  |  |  |

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cybermaxtech.com



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| | |
|--|------------------------|
| SHAPE & DIMENSION (UNIT:mm) | |
| | |
| Marking Code: | Size: Color: typeface: |
| PAD LAYOUT(MM): | ELECREICAL SCHEMATIC: |
| | |

| ELECREICAL SPECIFICATION | | | | | | |
|------------------------------------|------------------------------|-----------|-------------|------------|--------------------|------------------------|
| MEAS. ITEM | SPEC. | | | | TEST FREQ. | CONDITIONS |
| L | 10 | μH | ± | 10% | 2.5MHz/0.1V | Ta=25°C, Idc=0A |
| DCR | 850 | mΩ | 30%. | | | Ta=25°C |
| Isat | 0.36A MAX (0.43A TYP) | | | | 2.5MHz/0.1V | ΔL/L ≤ 30% |
| Irms | 0.60A MAX (0.68A TYP) | | | | 2.5MHz/0.1V | Δ ≤ 40°C |
| GENERAL SPECIFICATION | | | | | | |
| Electrical specifications : | | | at 25°C | | | |
| Operation Temperature: | | | -40~+125°C | | | |
| Storage Temperature: | | | -40~+125°C | | | |
| (1)WIRE TYPE: \varnothing 0.06mm | | | | | | |
| (2)WINDING:41.5Ts(Ref.) | | | | | | |

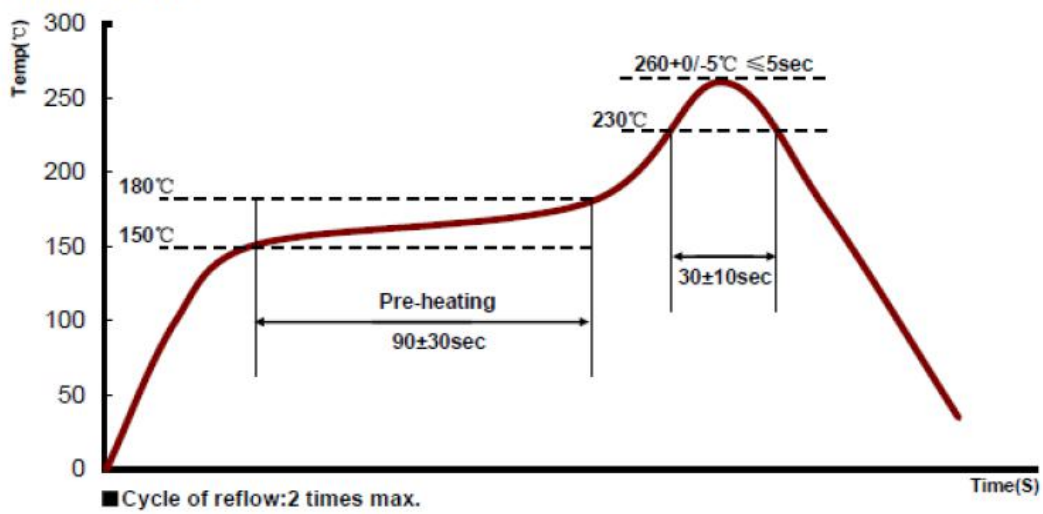
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| Reliability Test | | | |
|-------------------------|------------------------------|---|---|
| No. | Item | Specification | Test Method |
| 1 | Temperature Shock. | Appearance: No damage. Inductance: within $\pm 10\%$ of initial. | Temperature: $-25\pm 2^{\circ}\text{C} \sim +105\pm 2^{\circ}\text{C}$ Kept for 30 minutes. Transition time : 5 minutes. 100 Cycles. |
| 2 | Humidity Resistance. | Appearance: No damage. Inductance: within $\pm 10\%$ of initial. | Temperature: $40\pm 2^{\circ}\text{C}$. Relative Humidity: 90%. Duration: 500 +4/-0 hours. |
| 3 | High Temperature Resistance. | Appearance: No damage. Inductance: within $\pm 10\%$ of initial. | Temperature: $105\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours. |
| 4 | Low Temperature Resistance. | Appearance: No damage. Inductance: within $\pm 10\%$ of initial. | Temperature: $-25\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours. |
| 5 | Vibration test. | Appearance: No damage. Inductance: within $\pm 10\%$ of initial. | Oscillation Frequency: 10Hz to 55Hz to 10Hz in 60 seconds as a period. Total amplitude: 1.5mm. Testing Time: a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours). |
| 6 | Solderability Heat test. | Appearance: No damage. Inductance: within $\pm 10\%$ of initial. | Solder temperature: $260 +0/-5^{\circ}\text{C}$. Duration: 5 sec. Allowed reflow time: 2 times. |
| 7 | Solderability test. | 90% or more of electrode area shall be coated by new solder. | Preheating: 160°C , 60sec. Solder temperature: $245\pm 5^{\circ}\text{C}$. Duration : 5 sec. |
| 8 | Flexure Strength. | No visible mechanical damage. | Flexure: 2mm. Pressurizing Speed: 0.5mm/sec. Keep time: $30\pm 1\text{sec}$. |
| 9 | Terminal Strength. | No visible mechanical damage. | Force: 0.45Kg for 0603 series. Force: 0.9Kg for 0805 series. Force: 1.8Kg for 1008 series above. Keep time: 5 sec, X,Y directs. |

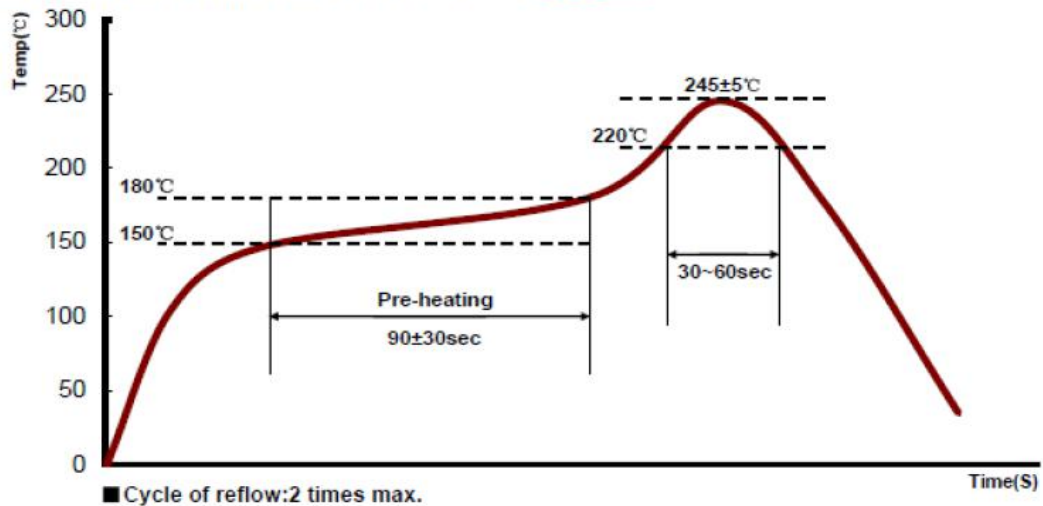
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REFLOW-PROFILE

Limit Profile



Standard Profile (for EOC Solder paste S70G-HF)



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B.O.M

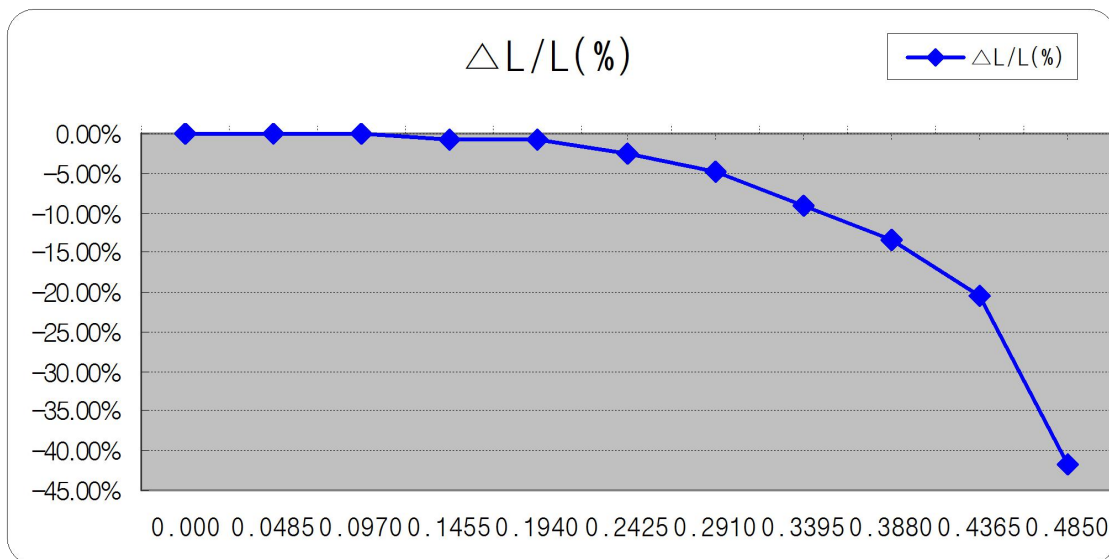
| 项目名称 | 型号及规格 | 制造商 | 环保要求 | 备注 |
|----------------|----------------------|-----------|------|----|
| 磁芯 (DRUM CORE) | MF401 SWI2012C075-LS | 台湾佳叶/台湾光绅 | RoHS | 主选 |
| 线材 (WIRE) | P180G1-0.06mm | 益利素勒 | RoHS | 主选 |
| 胶水 (GLUE) | UW-523 | 贺盛 | RoHS | 灌封 |

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Isat(飽和電流):電感瞬間的突波電流

CMCW2012F100KTT

| TME(秒) | Lsat(A) | L(UH) | $\Delta L/L(\%)$ |
|--------|---------|-------|------------------|
| 1 | 0.000 | 10.00 | 0.00% |
| 1 | 0.0485 | 10.00 | 0.00% |
| 1 | 0.0970 | 10.00 | 0.00% |
| 1 | 0.1455 | 9.93 | -0.70% |
| 1 | 0.1940 | 9.93 | -0.70% |
| 1 | 0.2425 | 9.75 | -2.50% |
| 1 | 0.2910 | 9.53 | -4.70% |
| 1 | 0.3395 | 9.10 | -9.00% |
| 1 | 0.3880 | 8.65 | -13.50% |
| 1 | 0.4365 | 7.95 | -20.50% |
| 1 | 0.4850 | 5.84 | -41.60% |



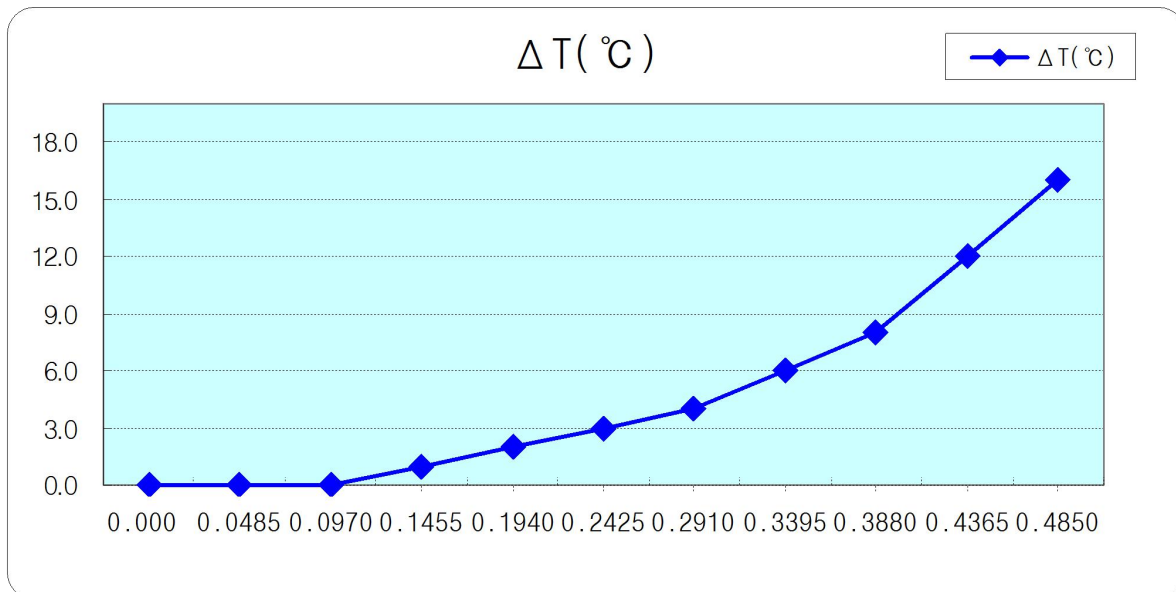
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單點溫昇

CMCW2012F100KTT




| TIME(S) | Irms(A) | L(uH) | $\Delta L/L(\%)$ | Temp($^{\circ}C$) | $\Delta T(^{\circ}C)$ |
|---------|---------|-------|------------------|---------------------|-----------------------|
| 30 | 0.000 | 9.99 | 0.00% | 30.0 | 0.0 |
| 30 | 0.0485 | 9.98 | -0.10% | 30.0 | 0.0 |
| 30 | 0.0970 | 9.98 | -0.10% | 30.0 | 0.0 |
| 30 | 0.1455 | 9.97 | -0.20% | 31.0 | 1.0 |
| 30 | 0.1940 | 9.96 | -0.30% | 32.0 | 2.0 |
| 30 | 0.2425 | 9.96 | -0.30% | 33.0 | 3.0 |
| 30 | 0.2910 | 9.93 | -0.60% | 34.0 | 4.0 |
| 30 | 0.3395 | 9.86 | -1.30% | 36.0 | 6.0 |
| 30 | 0.3880 | 8.96 | -10.31% | 38.0 | 8.0 |
| 30 | 0.4365 | 8.03 | -19.62% | 42.0 | 12.0 |
| 30 | 0.4850 | 5.68 | -43.14% | 46.0 | 16.0 |

※DC bias current characteristics in the ambient temperature 25 $^{\circ}C$ Frequency 2.5MHz/0.1V



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| TEST DATA FOR PREPRODUCTION SAMPLE | | | | | | | | | |
|------------------------------------|---------------|--------------|---------------|---------------|----------------------|----------|---------|--|--|
| TEST RESOLUTION | | | | | DIMENSION (Unit: mm) | | | | |
| MEAS. | L | D.C.R | | | 长 | 宽 | 高 | | |
| ITEM | μH | mΩ | | | | | | | |
| SPEC. | 10 | 850 | | | Max.2.4 | Max.1.73 | 1.3±0.1 | | |
| | ± | ± | | | | | | | |
| | 10% | 30% | | | | | | | |
| TEST FREQ. | 2.5MHz/0.1V | | Isat 0.36A | ΔL/L ≤ 30% | | | | | |
| 1 | 10.0 | 966 | 9.23 | -7.7% | 2.25 | 1.63 | 1.27 | | |
| 2 | 9.94 | 962 | 9.25 | -6.9% | 2.26 | 1.64 | 1.27 | | |
| 3 | 10.2 | 954 | 9.45 | -7.4% | 2.22 | 1.65 | 1.26 | | |
| 4 | 10.1 | 962 | 9.40 | -6.9% | 2.26 | 1.64 | 1.29 | | |
| 5 | 9.96 | 958 | 9.30 | -6.6% | 2.24 | 1.62 | 1.24 | | |
| 6 | 10.1 | 961 | 9.48 | -6.1% | | | | | |
| 7 | 10.0 | 958 | 9.35 | -6.5% | | | | | |
| 8 | 10.1 | 962 | 9.42 | -6.7% | | | | | |
| 9 | 10.1 | 965 | 9.46 | -6.3% | | | | | |
| 10 | 10.3 | 963 | 9.38 | -8.9% | | | | | |
| AVG. | 10.080 | 961.1 | 9.372 | -7.02% | | | | | |
| R | 0.36 | 12 | 1.60 | -4.20% | | | | | |

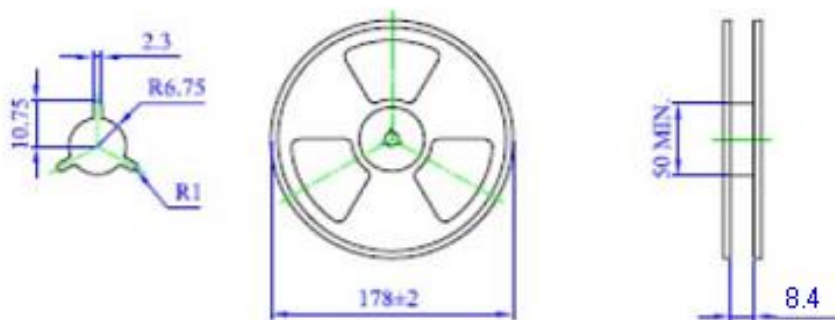
| APPROVED BY | CHECKED BY | DRAWN BY |
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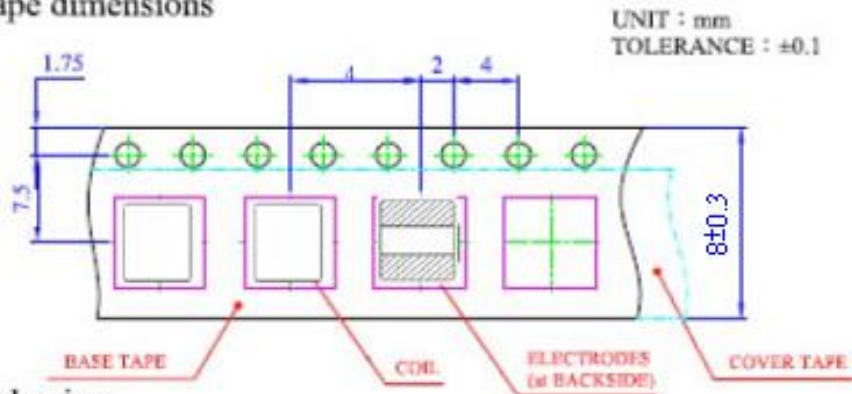
PACKAGING

热封包装

Reel dimensions



Tape dimensions

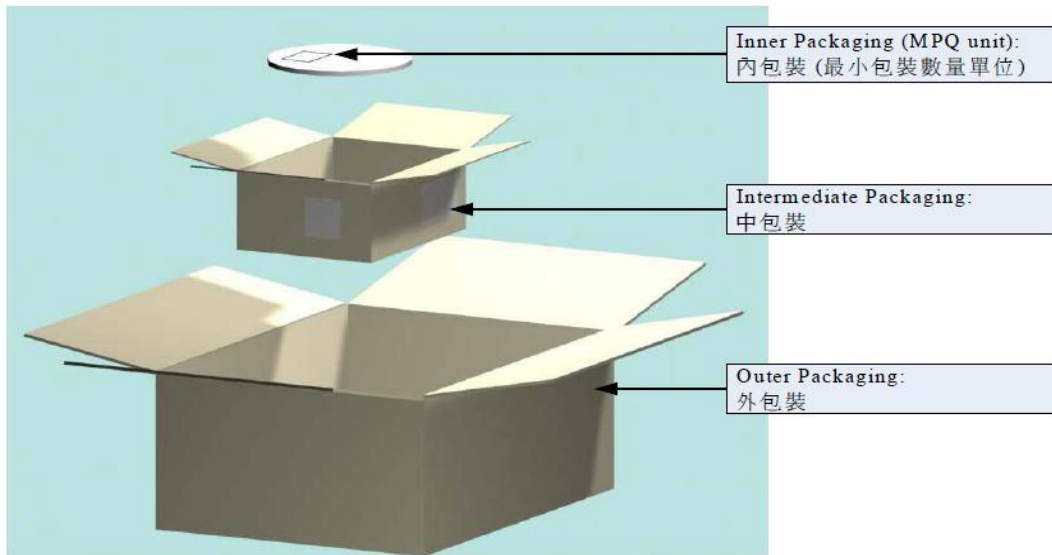


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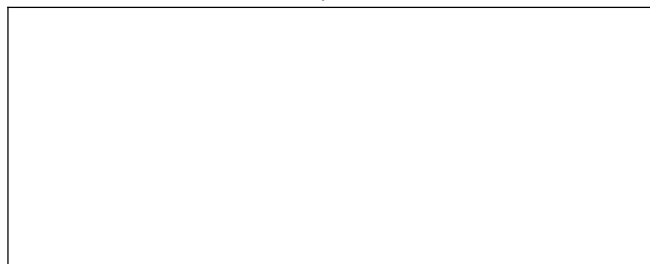
Quantity : **2000** pcs/reel

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PACKAGING



- 1.1 外箱: 36*36*23 cm 一箱裝 2 內箱
 - 1.2 內箱: 33.5*33.5*9 cm 一箱裝 4 卷制品
 - 1.3 外箱材質: A 三 A
 - 1.4 內箱材質: A=A
 - 1.5 每一卷制品用一只静电袋包裝
 - 1.6 每一静电袋內放一只袋干燥剂
 - 1.7 每一卷上面依标签样式的要求贴上标签明細
 - 1.8 出货內外箱贴上該箱內实际內容明細
 - 1.9 出货标签规格如下: 尺寸=长度:39mm 宽度:29mm
- (如: 客戶有特殊要求時, 則依客戶要求實施.)



备注: 如果捆包数量小于內箱捆包数量时就用內箱包裝