

 敏洲科技有限公司  
**MINGTEK TECHNOLOGY CORP.**

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**FOR APPROVAL**

WE ARE PLEASED IN SUBMITTING YOU HERewith OUR SPECIFICATION,  
DRAWING TOGETHER WITH SAMPLES FOR YOUR APPROVAL. PLEASE RETURN  
TO US ONE COPY WITH YOUR AUTHORIZED SIGNATURES AS APPROVED.

CUSTOMER :

DESCRIPTION : 10/100/1000 BASE-T DUAL PORT MAGNETICS MODULES

PART NUMBER : HN36201CG

ISSUE DATE : 2015/05/20

|                        |  |
|------------------------|--|
| CUSTOMER'S PART NUMBER |  |
| APPROVED DATE          |  |
| APPROVED SIGNATURE     |  |

TEL:886-2-86717511

FAX:886-2-86717611

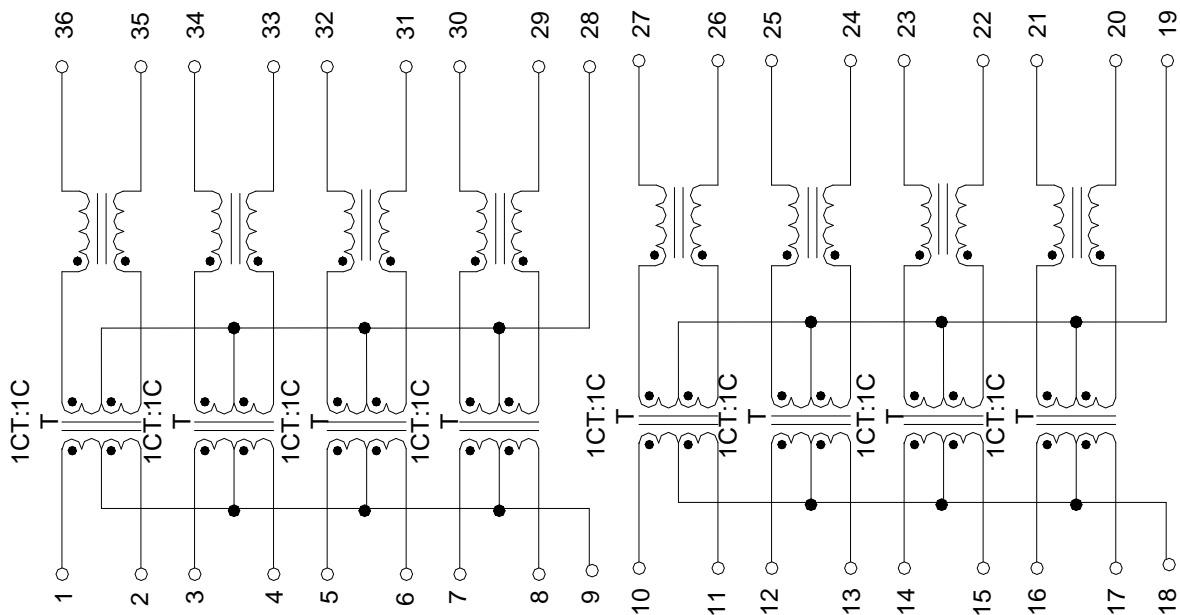
REGISTERED OFFICE : No. 491, Dade Rd., Sanxia Dist., New Taipei City 237, Taiwan

## SAMPLE TEST DATA

### A. ELECTRICAL SPECIFICATIONS @25°C

|                           |  |                  |
|---------------------------|--|------------------|
| Inductance OCL:           | 350uH Min @ 100KHz                                   | 0.2V 8mA DC BIAS |
| Leakage Inductance:       | 0.50uH Max @ 100KHz                                  | 0.2V             |
| Interwinding Capacitance: | 100pF TYP @ 100KHz                                   | 0.2V             |
| Turn Ratio:               | 1CT:1CT±5%   |                  |
| Polarity:                 | 1-36,3-34,5-32,7-30,10-27,12-25,14-23,16-21 In-Phase |                  |
| Insertion Loss:           | 1.0-100 MHz  | - 1.1dB Max      |
| Return Loss               | 0.5-30 MHz   | - 18dB Min       |
|                           | 40.0MHz  | - 14.4 dB Min    |
|                           | 50.0MHz  | - 13.1 dB Min    |
|                           | 60-80MHz   | - 12.0 dB Min    |
| Cross Talk:               | 0.5-60MHz  | - 40 dB Min      |
|                           | 60-100MHz  | - 30 dB Min      |
| DCMR:                     | 0.5-100MHz   | - 30 dB Min      |
| Isolation HI-POT:         | 1500Vrms,10mA 1S                                     |                  |
| Product Type:             | <b>Green Product</b>                                 |                  |
| Operating Temperature:    | 0°C TO 70°C  |                  |

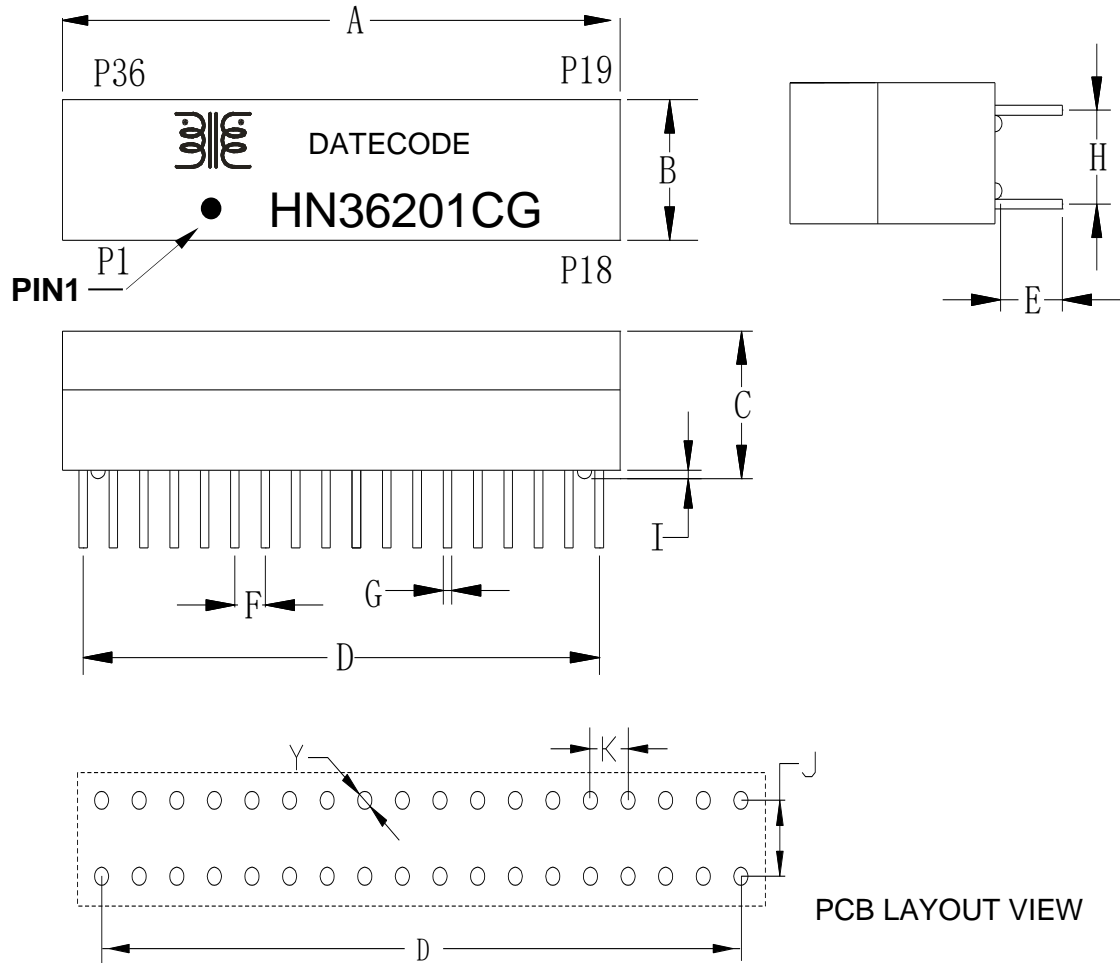
### B. SCHEMATIC:



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## SAMPLE TEST DATA

### C. DIMENSIONS & MARKING:



| DIM | MILLIMETERS(mm) |       | INCHES(inch)   |       |
|-----|-----------------|-------|----------------|-------|
|     | MIN             | MAX   | MIN            | MAX   |
| A   | 32.30           | 34.30 | 1.272          | 1.350 |
| B   | 7.80            | 8.80  | 0.307          | 0.346 |
| C   | 12.0(max)       |       | 0.472(max)     |       |
| D   | 30.26(typical)  |       | 1.191(typical) |       |
| E   | 2.90            | 3.50  | 0.114          | 0.138 |
| F   | 1.78(typical)   |       | 0.070(typical) |       |
| G   | 0.45(typical)   |       | 0.018(typical) |       |
| H   | 4.80(typical)   |       | 0.189(typical) |       |
| I   | 0.20            | 0.50  | 0.008          | 0.020 |
| J   | 4.80(typical)   |       | 0.189(typical) |       |
| K   | 1.78(typical)   |       | 0.070(typical) |       |
| Y   | 0.90(typical)   |       | 0.035(typical) |       |



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## SAMPLE TEST DATA

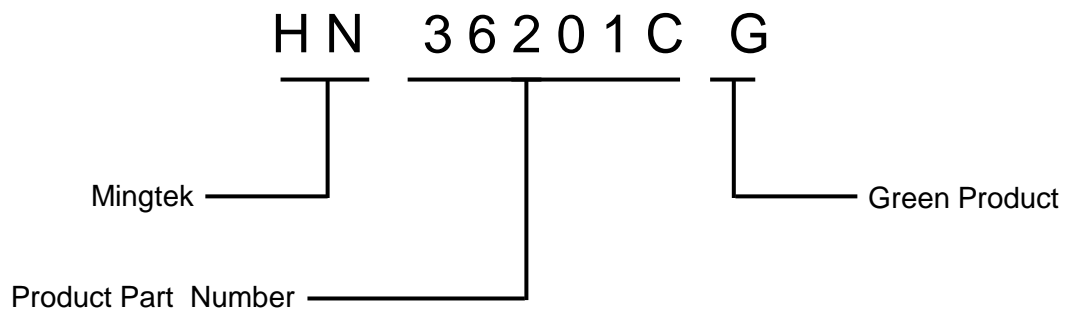
### D. HAZARDOUS TEST REPORT:

| Test Item(s)                                      | Unit | Method  | MDL    | Result |
|---|------|---|--------|--------|
| Chromium VI(Cr+6)                                 | ppm  | As per US EPA 7196A and US EPA 3060A  | <100   | <100   |
| Cadmium(Cd)                                       | ppm  | ICP-AES after as per EN1122, method B:2001 or other acid digestion              | 2      | N.D    |
| Mercury(Hg)                                       | ppm  | ICP-AES after as per US EPA 3052 or other acid digestion                        | 2      | N.D    |
| Lead(Pb)  | ppm  | ICP-AES after as per US EPA 3050B or other acid digestion                       | <1000  | <1000  |
| PBBs(Polybrominated biphenyls)(CAS NO:67774-32-7) | %    | With reference to 83/264/EEC.Analysis Was Performed by GC/MS/ECD or HPLC/DAD/MS | 0.0005 | N.D    |
| PBBEs(PBDEs) (Polybrominated biphenyl ethers)     | %    | With reference to 83/264/EEC.Analysis Was Performed by GC/MS/ECD or HPLC/DAD/MS | 0.0005 | N.D    |

#### NOTE:

- (1) N.D = Not detected(<MDL)
- (2) ppm = mg/kg
- (3) MDL = Method Detection Limit

### E. PART NUMBER LEGEND:



## SAMPLE TEST DATA

| SPEC   | 1    | 2    | 3    | 4    | 5    |
|--|------|------|------|------|------|
| L: (AT 100KHz 0.2V 8mA)  |      |      |      |      |      |
| 350uH Min  |      |      |      |      |      |
| 1-2  | 542  | 555  | 568  | 545  | 513  |
| 3-4  | 543  | 546  | 513  | 543  | 526  |
| 5-6  | 516  | 526  | 506  | 526  | 543  |
| 7-8  | 513  | 528  | 562  | 506  | 562  |
| 10-11  | 526  | 545  | 543  | 542  | 565  |
| 12-13  | 543  | 555  | 526  | 555  | 565  |
| 14-15  | 562  | 546  | 543  | 546  | 516  |
| 16-17  | 565  | 536  | 526  | 526  | 523  |
| Lk: (AT 100KHz 0.2V)   |      |      |      |      |      |
| 0.5uH Max  |      |      |      |      |      |
| 1-2(36-35 short)   | 0.33 | 0.41 | 0.34 | 0.38 | 0.37 |
| 3-4(34-33 short)   | 0.36 | 0.37 | 0.36 | 0.34 | 0.43 |
| 5-6(32-31 short)   | 0.39 | 0.33 | 0.30 | 0.36 | 0.36 |
| 7-8(30-29 short)   | 0.34 | 0.38 | 0.33 | 0.36 | 0.40 |
| 10-11(27-26 short)   | 0.36 | 0.37 | 0.35 | 0.34 | 0.40 |
| 12-13(25-24 short)   | 0.30 | 0.43 | 0.34 | 0.33 | 0.41 |
| 14-15(23-22 short)   | 0.36 | 0.36 | 0.39 | 0.36 | 0.37 |
| 16-17(21-20 short)   | 0.36 | 0.39 | 0.36 | 0.39 | 0.33 |
| CWW: (AT 100KHz 0.2V)  |      |      |      |      |      |
| 100PF TYP  |      |      |      |      |      |
| 1-2 TO 36-35   | 86.3 | 85.2 | 84.3 | 86.5 | 82.1 |
| 3-4 TO 34-33   | 86.3 | 85.2 | 84.3 | 86.5 | 82.1 |
| 5-6 TO 32-31   | 87.3 | 85.2 | 84.1 | 83.5 | 83.9 |
| 7-8 TO 30-29   | 87.3 | 85.2 | 84.1 | 83.5 | 83.9 |
| 10-11 TO 27-26   | 88.4 | 87.3 | 85.2 | 86.3 | 87.2 |
| 12-13 TO 25-24   | 88.4 | 87.3 | 85.2 | 86.3 | 87.2 |
| 14-15 TO 23-22   | 81.3 | 85.2 | 86.5 | 84.2 | 81.8 |
| 16-17 TO 21-20   | 81.3 | 85.2 | 86.5 | 84.2 | 81.8 |
| MAIN TEST EQUIPMENT  |      |      |      |      |      |
| <input type="checkbox"/> CHANGCHUANG CC2670 WITHSTANDING VOLTAGE TESTER<br><input type="checkbox"/> JINKAITAI 3250 AUTOMATIC TRANSFORMER TEST SYSTEM<br><input checked="" type="checkbox"/> TONGHUI TH2818 AUTOMATIC TRANSFORMER TEST SYSTEM<br><input type="checkbox"/> RF NETWORK ANALYZERS 8712ET |      |      |      |      |      |



# Mingtek Technology Corp.

## SAMPLE TEST DATA

| SPEC   | 1    | 2    | 3    | 4    | 5    |
|--|------|------|------|------|------|
| TURNS RATIO:   |      |      |      |      |      |
| (1-2) : (36-35)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (3-4) : (35-34)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (5-6) : (33-32)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (7-8) : (31-30)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (10-11) : (28-27)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (12-13) : (26-25)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (14-15) : (24-23)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| (16-17) : (22-21)=1CT:1CT±5%   | OK   | OK   | OK   | OK   | OK   |
| HI-POT:  |      |      |      |      |      |
| AT:1500Vrms 10mA 1S  |      |      |      |      |      |
| 1-2 TO 36-35   | OK   | OK   | OK   | OK   | OK   |
| 3-4 TO 34-33   | OK   | OK   | OK   | OK   | OK   |
| 5-6 TO 32-31   | OK   | OK   | OK   | OK   | OK   |
| 7-8 TO 30-29   | OK   | OK   | OK   | OK   | OK   |
| 10-11 TO 27-26   | OK   | OK   | OK   | OK   | OK   |
| 12-13 TO 25-24   | OK   | OK   | OK   | OK   | OK   |
| 14-15 TO 23-22   | OK   | OK   | OK   | OK   | OK   |
| 16-17 TO 21-20   | OK   | OK   | OK   | OK   | OK   |
| Insertion Loss:  |      |      |      |      |      |
| -1.1dB Max(1-100MHz)   |      |      |      |      |      |
| 1-2:   |      |      |      |      |      |
| 30MHz  | 0.38 | 0.38 | 0.39 | 0.41 | 0.42 |
| 40MHz  | 0.38 | 0.39 | 0.38 | 0.41 | 0.41 |
| 50MHz  | 0.36 | 0.38 | 0.38 | 0.38 | 0.38 |
| 60MHz  | 0.35 | 0.36 | 0.37 | 0.37 | 0.38 |
| 80MHz  | 0.28 | 0.28 | 0.29 | 0.31 | 0.31 |
| 100MHz   | 0.27 | 0.28 | 0.28 | 0.29 | 0.27 |
| 3-4:   |      |      |      |      |      |
| 30MHz  | 0.38 | 0.39 | 0.40 | 0.40 | 0.41 |
| 40MHz  | 0.38 | 0.41 | 0.38 | 0.41 | 0.41 |
| 50MHz  | 0.37 | 0.40 | 0.38 | 0.39 | 0.39 |
| 60MHz  | 0.35 | 0.37 | 0.36 | 0.36 | 0.38 |
| 80MHz  | 0.30 | 0.30 | 0.33 | 0.33 | 0.31 |
| 100MHz   | 0.28 | 0.28 | 0.28 | 0.30 | 0.29 |
| MAIN TEST EQUIPMENT  |      |      |      |      |      |
| <input checked="" type="checkbox"/> CHANGCHUANG CC2670 WITHSTANDING VOLTAGE TESTER<br><input type="checkbox"/> JINKAITAI 3250 AUTOMATIC TRANSFORMER TEST SYSTEM<br><input checked="" type="checkbox"/> TONGHUI TH2818 AUTOMATIC TRANSFORMER TEST SYSTEM<br><input checked="" type="checkbox"/> RF NETWORK ANALYZERS 8712ET |      |      |      |      |      |

## SAMPLE TEST DATA

| SPEC   | 1    | 2    | 3    | 4    | 5    |
|--------|------|------|------|------|------|
| 5-6:   |      |      |      |      |      |
| 30MHz  | 0.39 | 0.41 | 0.40 | 0.41 | 0.43 |
| 40MHz  | 0.39 | 0.41 | 0.42 | 0.41 | 0.40 |
| 50MHz  | 0.39 | 0.40 | 0.41 | 0.43 | 0.40 |
| 60MHz  | 0.36 | 0.39 | 0.37 | 0.37 | 0.37 |
| 80MHz  | 0.29 | 0.32 | 0.30 | 0.31 | 0.30 |
| 100MHz | 0.28 | 0.30 | 0.28 | 0.31 | 0.30 |
| 7-8:   |      |      |      |      |      |
| 30MHz  | 0.39 | 0.41 | 0.40 | 0.43 | 0.43 |
| 40MHz  | 0.40 | 0.43 | 0.41 | 0.40 | 0.42 |
| 50MHz  | 0.38 | 0.41 | 0.39 | 0.39 | 0.40 |
| 60MHz  | 0.36 | 0.38 | 0.39 | 0.37 | 0.38 |
| 80MHz  | 0.29 | 0.29 | 0.29 | 0.30 | 0.29 |
| 100MHz | 0.28 | 0.29 | 0.29 | 0.30 | 0.29 |
| 10-11: |      |      |      |      |      |
| 30MHz  | 0.38 | 0.39 | 0.39 | 0.41 | 0.42 |
| 40MHz  | 0.41 | 0.43 | 0.45 | 0.45 | 0.45 |
| 50MHz  | 0.39 | 0.39 | 0.39 | 0.41 | 0.39 |
| 60MHz  | 0.37 | 0.41 | 0.40 | 0.41 | 0.38 |
| 80MHz  | 0.30 | 0.32 | 0.30 | 0.32 | 0.31 |
| 100MHz | 0.29 | 0.30 | 0.31 | 0.30 | 0.30 |
| 12-13: |      |      |      |      |      |
| 30MHz  | 0.42 | 0.45 | 0.44 | 0.42 | 0.42 |
| 40MHz  | 0.40 | 0.41 | 0.43 | 0.41 | 0.42 |
| 50MHz  | 0.38 | 0.40 | 0.39 | 0.40 | 0.39 |
| 60MHz  | 0.36 | 0.38 | 0.37 | 0.39 | 0.38 |
| 80MHz  | 0.30 | 0.33 | 0.31 | 0.32 | 0.32 |
| 100MHz | 0.29 | 0.32 | 0.30 | 0.32 | 0.32 |
| 14-15: |      |      |      |      |      |
| 30MHz  | 0.40 | 0.44 | 0.44 | 0.42 | 0.42 |
| 40MHz  | 0.41 | 0.43 | 0.44 | 0.43 | 0.42 |
| 50MHz  | 0.38 | 0.40 | 0.40 | 0.38 | 0.40 |
| 60MHz  | 0.36 | 0.38 | 0.39 | 0.39 | 0.38 |
| 80MHz  | 0.31 | 0.32 | 0.33 | 0.33 | 0.31 |
| 100MHz | 0.28 | 0.29 | 0.28 | 0.28 | 0.29 |

### MAIN TEST EQUIPMENT

- CHANGCHUANG CC2670 WITHSTANDING VOLTAGE TESTER
- JINKAITAI 3250 AUTOMATIC TRANSFORMER TEST SYSTEM
- TONGHUI TH2818 AUTOMATIC TRANSFORMER TEST SYSTEM
- RF NETWORK ANALYZERS 8712ET

## SAMPLE TEST DATA

| SPEC                   | 1    | 2    | 3    | 4    | 5    |
|------------------------|------|------|------|------|------|
| 16-17:                 |      |      |      |      |      |
| 30MHz                  | 0.39 | 0.42 | 0.39 | 0.41 | 0.40 |
| 40MHz                  | 0.41 | 0.43 | 0.43 | 0.41 | 0.43 |
| 50MHz                  | 0.39 | 0.40 | 0.39 | 0.39 | 0.39 |
| 60MHz                  | 0.38 | 0.39 | 0.39 | 0.39 | 0.39 |
| 80MHz                  | 0.30 | 0.31 | 0.31 | 0.32 | 0.30 |
| 100MHz                 | 0.28 | 0.31 | 0.30 | 0.31 | 0.29 |
| Return Loss:           |      |      |      |      |      |
| -18dB Min (0.5-30MHz)  |      |      |      |      |      |
| -14.4dB Min (40MHz)    |      |      |      |      |      |
| -13.1dB Min (50MHz)    |      |      |      |      |      |
| -12.0dB Min (60-80MHz) |      |      |      |      |      |
| 1-2:                   |      |      |      |      |      |
| 30MHz                  | 24.6 | 26.5 | 26.6 | 25.0 | 26.1 |
| 40MHz                  | 21.9 | 22.5 | 22.2 | 24.1 | 22.5 |
| 50MHz                  | 19.1 | 19.9 | 20.7 | 20.9 | 19.9 |
| 60MHz                  | 17.6 | 18.0 | 19.1 | 18.3 | 17.7 |
| 80MHz                  | 15.7 | 16.5 | 16.9 | 16.1 | 16.8 |
| 3-4:                   |      |      |      |      |      |
| 30MHz                  | 25.1 | 26.8 | 27.2 | 26.9 | 26.0 |
| 40MHz                  | 22.3 | 23.0 | 23.5 | 23.4 | 24.3 |
| 50MHz                  | 19.4 | 20.1 | 20.3 | 20.6 | 20.5 |
| 60MHz                  | 17.9 | 18.6 | 19.5 | 18.4 | 18.6 |
| 80MHz                  | 16.2 | 17.4 | 16.7 | 17.7 | 16.7 |
| 5-6:                   |      |      |      |      |      |
| 30MHz                  | 25.1 | 27.0 | 27.0 | 26.8 | 27.5 |
| 40MHz                  | 21.8 | 23.3 | 22.9 | 22.6 | 23.2 |
| 50MHz                  | 20.1 | 21.0 | 21.8 | 20.4 | 20.7 |
| 60MHz                  | 19.9 | 20.1 | 21.2 | 21.2 | 20.0 |
| 80MHz                  | 17.7 | 18.2 | 18.0 | 19.1 | 19.1 |
|                        |      |      |      |      |      |
|                        |      |      |      |      |      |

### MAIN TEST EQUIPMENT

- CHANGCHUANG CC2670 WITHSTANDING VOLTAGE TESTER
- JINKAITAI 3250 AUTOMATIC TRANSFORMER TEST SYSTEM
- TONGHUI TH2818 AUTOMATIC TRANSFORMER TEST SYSTEM
- RF NETWORK ANALYZERS 8712ET



## SAMPLE TEST DATA

| SPEC   | 1    | 2    | 3    | 4    | 5    |
|--------|------|------|------|------|------|
| 7-8:   |      |      |      |      |      |
| 30MHz  | 23.8 | 24.1 | 25.5 | 25.6 | 23.8 |
| 40MHz  | 20.6 | 22.0 | 22.4 | 22.1 | 20.9 |
| 50MHz  | 18.9 | 19.9 | 19.6 | 20.2 | 19.2 |
| 60MHz  | 19.7 | 19.8 | 21.6 | 19.9 | 21.3 |
| 80MHz  | 17.6 | 18.8 | 17.8 | 17.6 | 18.2 |
| 10-11: |      |      |      |      |      |
| 30MHz  | 23.4 | 24.4 | 25.7 | 25.2 | 24.4 |
| 40MHz  | 20.8 | 21.3 | 21.0 | 21.3 | 20.8 |
| 50MHz  | 18.2 | 18.5 | 19.2 | 18.8 | 18.7 |
| 60MHz  | 17.9 | 18.0 | 18.1 | 19.5 | 18.4 |
| 80MHz  | 15.3 | 16.5 | 16.4 | 15.7 | 15.5 |
| 12-13: |      |      |      |      |      |
| 30MHz  | 25.1 | 26.7 | 26.2 | 25.3 | 26.5 |
| 40MHz  | 22.3 | 23.6 | 23.7 | 22.7 | 23.3 |
| 50MHz  | 19.4 | 20.2 | 20.3 | 19.7 | 20.3 |
| 60MHz  | 17.9 | 18.9 | 18.7 | 18.4 | 18.7 |
| 80MHz  | 16.2 | 17.8 | 17.2 | 17.1 | 17.7 |
| 14-15: |      |      |      |      |      |
| 30MHz  | 25.1 | 25.7 | 27.0 | 26.4 | 26.5 |
| 40MHz  | 22.2 | 22.4 | 22.7 | 22.2 | 23.2 |
| 50MHz  | 19.4 | 19.7 | 20.0 | 19.8 | 21.1 |
| 60MHz  | 17.8 | 18.7 | 19.2 | 18.2 | 18.1 |
| 80MHz  | 15.8 | 16.8 | 16.1 | 16.0 | 17.2 |
| 16-17: |      |      |      |      |      |
| 30MHz  | 23.6 | 24.6 | 24.4 | 25.8 | 24.9 |
| 40MHz  | 22.7 | 24.9 | 24.4 | 22.9 | 24.7 |
| 50MHz  | 19.9 | 20.6 | 21.6 | 21.8 | 20.0 |
| 60MHz  | 17.3 | 17.4 | 17.7 | 18.3 | 18.3 |
| 80MHz  | 16.8 | 17.7 | 17.0 | 18.4 | 17.1 |
|        |      |      |      |      |      |
|        |      |      |      |      |      |
|        |      |      |      |      |      |
|        |      |      |      |      |      |
|        |      |      |      |      |      |
|        |      |      |      |      |      |
|        |      |      |      |      |      |
|        |      |      |      |      |      |

### MAIN TEST EQUIPMENT

- CHANGCHUANG CC2670 WITHSTANDING VOLTAGE TESTER
- JINKAITAI 3250 AUTOMATIC TRANSFORMER TEST SYSTEM
- TONGHUI TH2818 AUTOMATIC TRANSFORMER TEST SYSTEM
- RF NETWORK ANALYZERS 8712ET



# Mingtek Technology Corp.

## SAMPLE TEST DATA

| SPEC                  | 1    | 2    | 3    | 4    | 5    |
|-----------------------|------|------|------|------|------|
| Cross Talk:           |      |      |      |      |      |
| -40dB Min (0.5-60MHz) |      |      |      |      |      |
| -30dB Min (60-100MHz) |      |      |      |      |      |
| 1-2 TO 3-4:           |      |      |      |      |      |
| 30MHz                 | 54.8 | 55.7 | 55.5 | 55.7 | 59.4 |
| 60MHz                 | 49.8 | 51.9 | 53.4 | 50.2 | 50.0 |
| 100MHz                | 42.1 | 44.7 | 43.4 | 43.4 | 43.8 |
| 3-4 TO 5-6:           |      |      |      |      |      |
| 30MHz                 | 50.7 | 55.2 | 51.3 | 51.4 | 55.7 |
| 60MHz                 | 45.3 | 46.0 | 45.4 | 45.5 | 49.5 |
| 100MHz                | 40.8 | 44.8 | 41.6 | 41.2 | 43.6 |
| 5-6 TO 7-8:           |      |      |      |      |      |
| 30MHz                 | 55.4 | 59.8 | 58.6 | 58.6 | 57.7 |
| 60MHz                 | 52.3 | 53.4 | 57.1 | 56.4 | 57.1 |
| 100MHz                | 46.2 | 50.1 | 50.4 | 50.4 | 47.1 |
| 7-8 TO 10-11:         |      |      |      |      |      |
| 30MHz                 | 54.6 | 59.3 | 56.9 | 58.6 | 57.1 |
| 60MHz                 | 51.3 | 55.9 | 53.3 | 56.2 | 55.2 |
| 100MHz                | 47.1 | 48.6 | 48.2 | 51.7 | 47.5 |
| 10-11 TO 12-13:       |      |      |      |      |      |
| 30MHz                 | 53.6 | 58.2 | 54.5 | 57.0 | 55.3 |
| 60MHz                 | 51.7 | 56.3 | 55.6 | 52.5 | 53.9 |
| 100MHz                | 42.6 | 46.6 | 46.0 | 45.3 | 43.5 |
| 12-13 TO 14-15:       |      |      |      |      |      |
| 30MHz                 | 54.6 | 58.3 | 55.1 | 58.0 | 57.9 |
| 60MHz                 | 47.6 | 48.8 | 50.1 | 50.8 | 51.4 |
| 100MHz                | 45.1 | 49.4 | 47.4 | 49.1 | 48.2 |
| 14-15 TO 16-17:       |      |      |      |      |      |
| 30MHz                 | 50.7 | 52.1 | 52.8 | 51.7 | 54.9 |
| 60MHz                 | 45.3 | 47.4 | 46.6 | 46.2 | 48.2 |
| 100MHz                | 40.8 | 41.2 | 42.2 | 42.5 | 42.2 |

### MAIN TEST EQUIPMENT

- CHANGCHUANG CC2670 WITHSTANDING VOLTAGE TESTER
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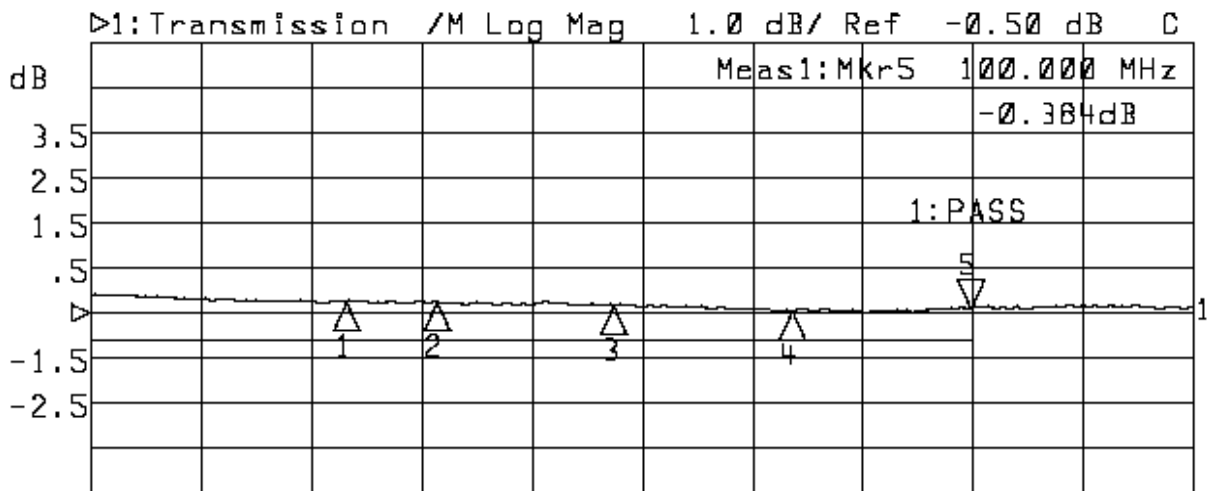
# Mingtek Technology Corp.

## SAMPLE TEST DATA

P/N:HN36201CG

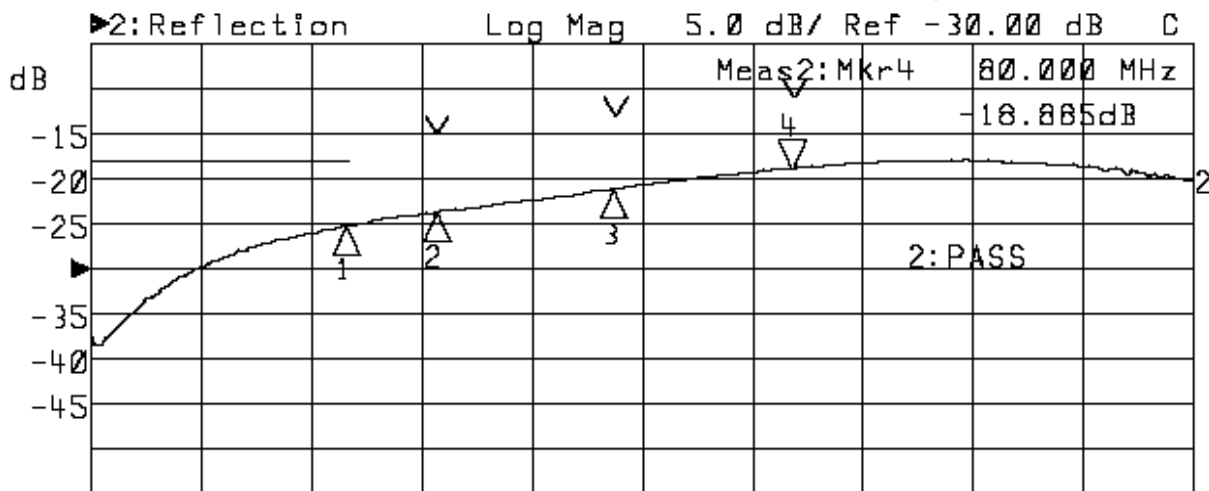
NO:01

Insertion Loss and Return Loss



Start 1.000 MHz

Stop 125.000 MHz



Start 1.000 MHz

Stop 125.000 MHz

| 1:Mkr (MHz) | dB     | 2:Mkr (MHz) | dB      |
|-------------|--------|-------------|---------|
| 1: 30.0000  | -0.226 | 1: 30.0000  | -25.262 |
| 2: 40.0000  | -0.259 | 2: 40.0000  | -23.701 |
| 3: 60.0000  | -0.341 | 3: 60.0000  | -21.126 |
| 4: 80.0000  | -0.444 | 4> 80.0000  | -18.885 |
| 5> 100.0000 | -0.384 |             |         |



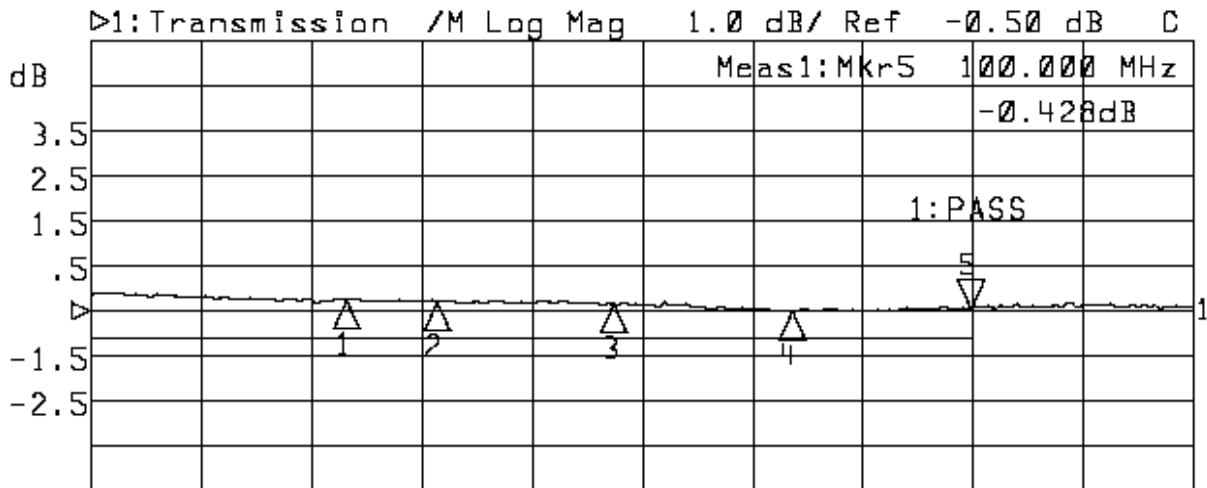
# Mingtek Technology Corp.

## SAMPLE TEST DATA

P/N:HN36201CG

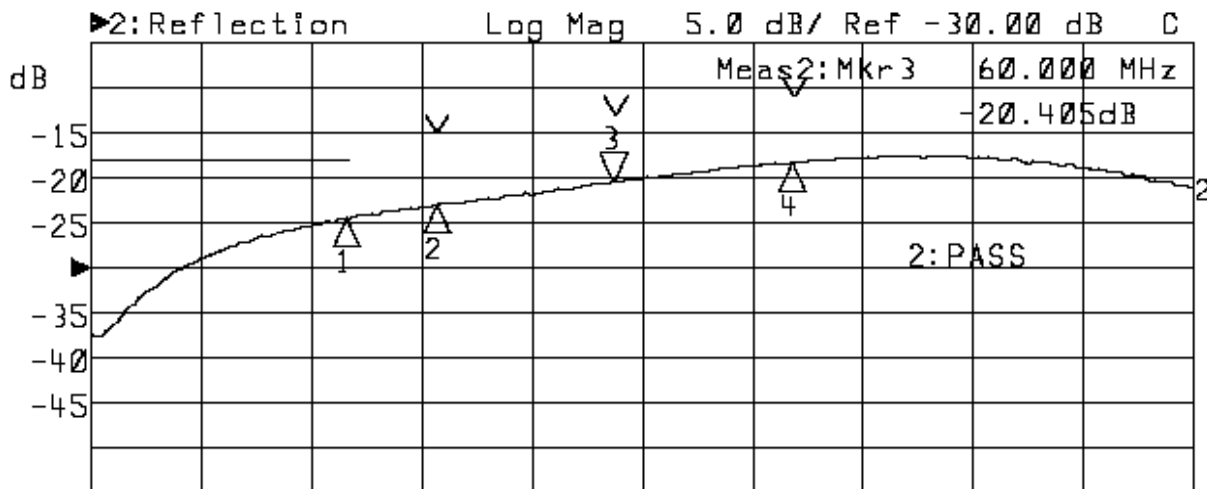
NO:01

Insertion Loss and Return Loss



Start 1.000 MHz

Stop 125.000 MHz



Start 1.000 MHz

Stop 125.000 MHz

| 1: Mkr (MHz) dB |                 | 2: Mkr (MHz) dB |                 |
|-----------------|-----------------|-----------------|-----------------|
| 1:              | 30.0000 -0.254  | 1:              | 30.0000 -24.547 |
| 2:              | 40.0000 -0.275  | 2:              | 40.0000 -23.045 |
| 3:              | 60.0000 -0.342  | 3:              | 60.0000 -20.405 |
| 4:              | 80.0000 -0.497  | 4:              | 80.0000 -18.322 |
| 5:              | 100.0000 -0.428 |                 |                 |

## SAMPLE TEST DATA

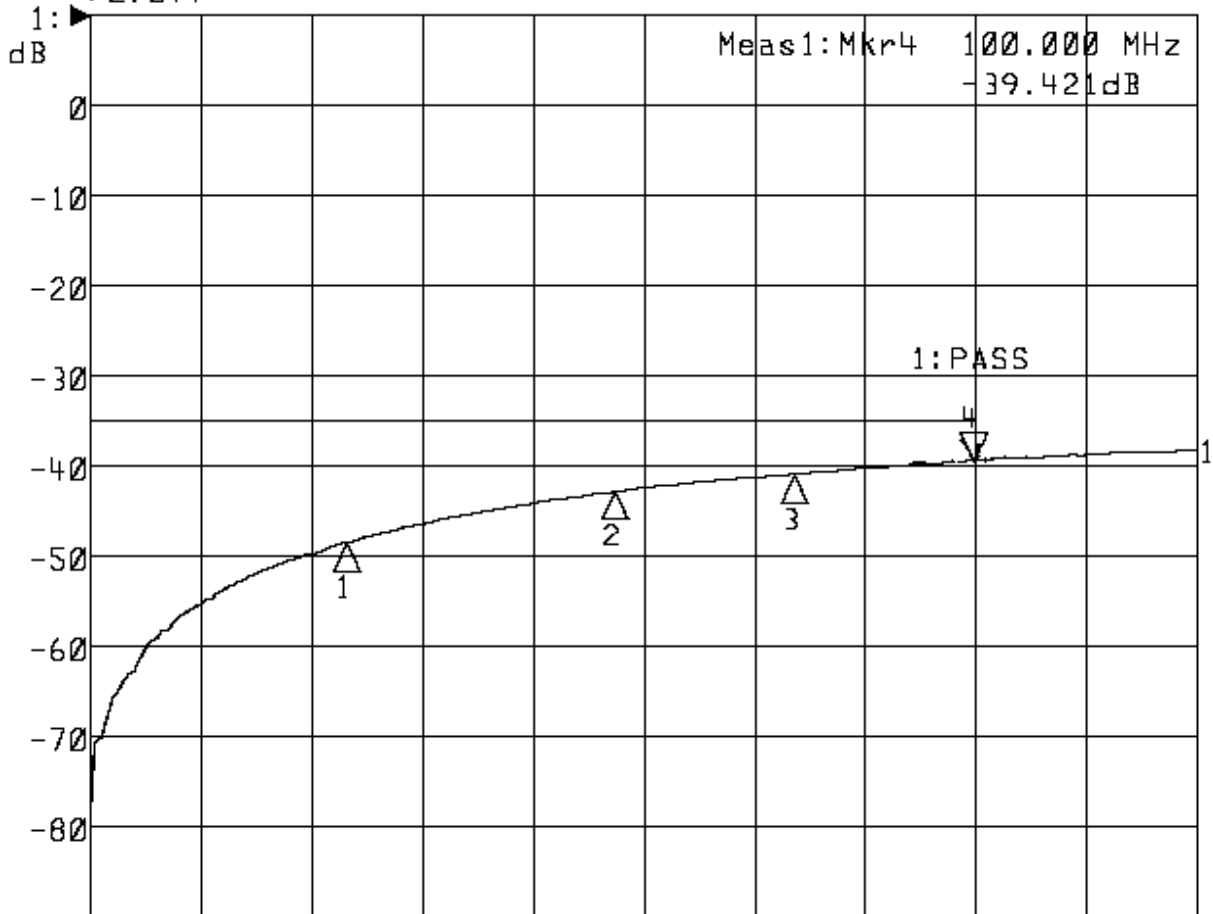
P/N:HN36201CG

NO:01

Cross Talk:

►1: Transmission /M Log Mag 10.0 dB/ Ref 10.00 dB C

►2: Off



Start 1.000 MHz

Stop 125.000 MHz

| 1: Mkr (MHz) | dB       | 2: Mkr (MHz) | dB |
|--------------|----------|--------------|----|
| 1:           | 30.0000  | -48.428      |    |
| 2:           | 60.0000  | -42.819      |    |
| 3:           | 80.0000  | -40.900      |    |
| 4>           | 100.0000 | -39.421      |    |

變壓器的絕緣體與耐壓值測試表

| 項目  | 內容                                       | 規格值           | 實測值      |
|-----|--|---------------|----------|
| 1.  | 外觀<br>Appearance                         | 依規範           | 、        |
| 2.  | 導體徑 mm<br>Bare Wire Dia                  | + 0.008-0.008 | 0.09     |
| 3.  | 完成外徑 mm<br>Overall Dia                   | 0.117-0.137   | 0.128    |
| 4.  | 針孔 (常態)<br>Pin Hole (Normal State)       | 03 MAX        | 0        |
| 5.  | 針孔 (捲繞, 伸長 5%)<br>Pin Hole (Elongated)   | 無龜裂           | 符合       |
| 6.  | 絕緣破壞電壓 V<br>Dielectric Strength AC       | 3500 MIN      | 14000    |
| 7.  | 伸長率 %<br>Elongation                      | 15 MIN        | 44       |
| 8.  | 導體電阻 20°C Ω / km<br>Conductor Resistance | 2959.000 MAX  | 2721.000 |
| 9.  | 直焊性 (400°C) sec<br>Solderability         | 2.0 MAX       | 0.7      |
| 10. | 耐軟性 (200°C) 以上<br>Thermoplastic Flow     | 無短路           | 符合       |
| 11. | 耐熱衝擊 (180°C)<br>Heat Shock               | 無龜裂           | 符合       |
| 12. | 密著性<br>Adtience                          | 無龜裂           | 符合       |
| 13. | 耐溶性<br>Resistance to Solvent             | 無龜裂           | 符合       |
| 14. | 接著力 g<br>Bonding Strength Test           | -----         | -----    |
| 15. | 溶解性 %<br>Solution Test                   | -----         | -----    |

\*針腳.腳面之上錫功能測試

1. 上錫條件

錫材：Sn99.3/cu 0.7

助焊劑：R Type Flux

錫爐溫度：245 ± 5°C

上錫時間：5 秒

2. 在每批產品中隨機抽取5只做上錫功能測試

3. 用顯微鏡檢查每只產品的任一針腳必須有 95 % 以上的面積上錫良好

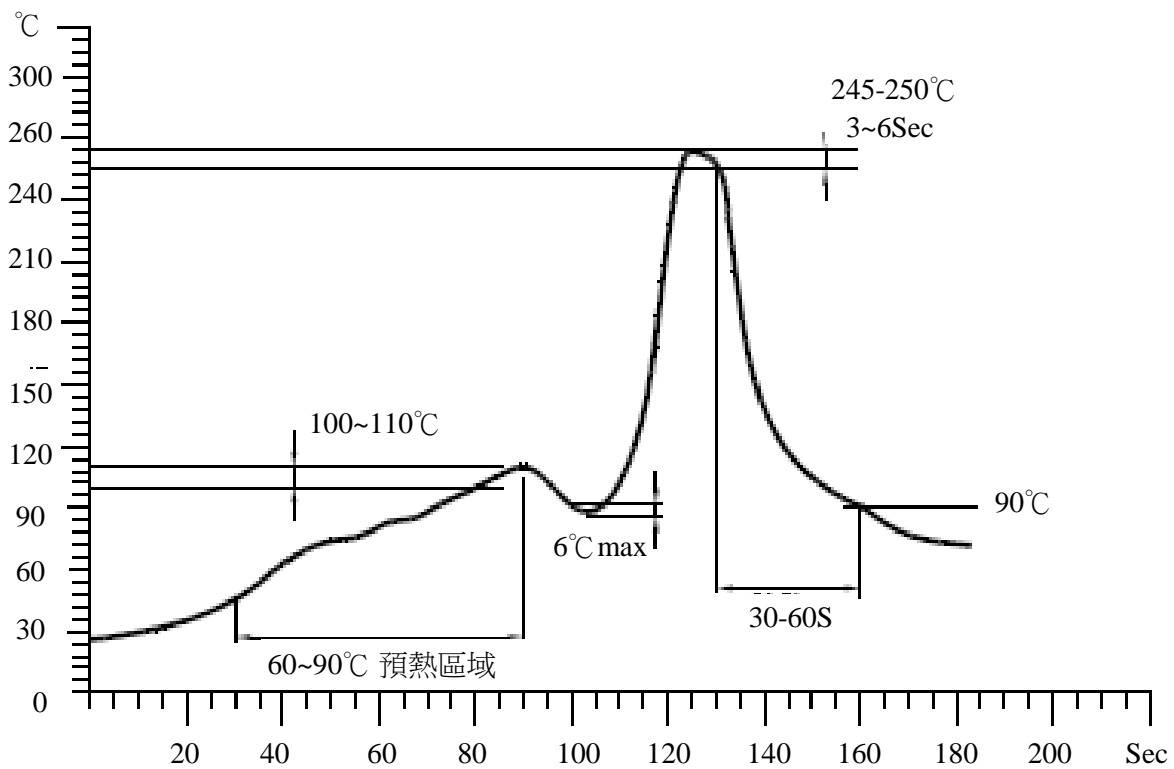
4. 每個經上錫測試後的產品都要測試通過後才能出貨

## SAMPLE TEST DATA

F: DIP無鉛產品波峰焊溫度曲線圖:

一.無鉛制程焊接條件:

1. 適用產品型號: 所有DIP類產品
2. 焊接方式: 波峰焊接
3. 焊接溫度曲線(如下):



注:以上溫度曲線僅供參考

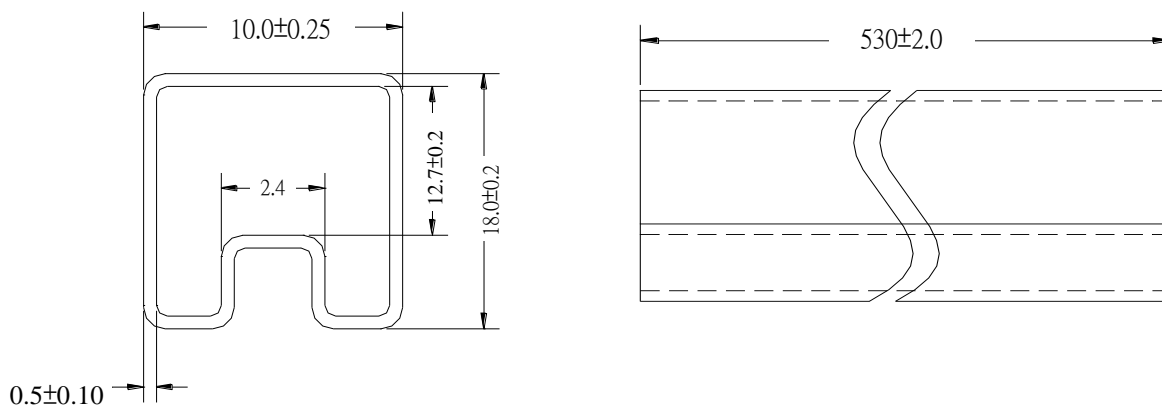
## SAMPLE TEST DATA

### G. PACKAGE CRITERION:

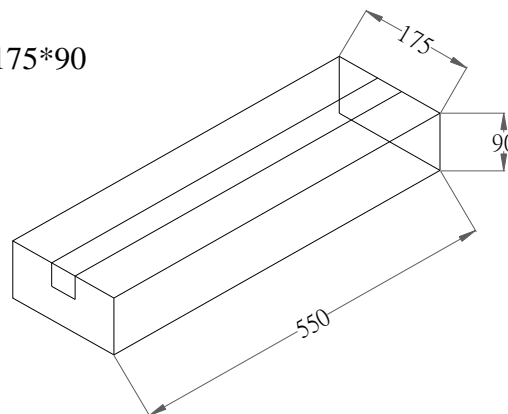
#### 1.PACKAGE MATERIAL:

1.1 Tube: 530\*10.0\*18.0

units: m/m

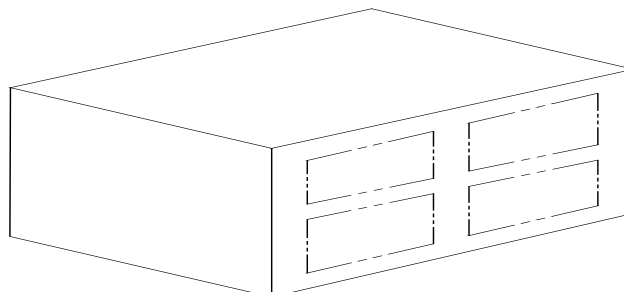


1.2.Inner Carton: 550\*175\*90



units: m/m

1.3.Export Carton: 560\*375\*205



#### 2.PACKAGE QUANTITY

One Tube=15 Pcs

One Inner carton =720 Pcs

One Export carton =2880 Pcs