
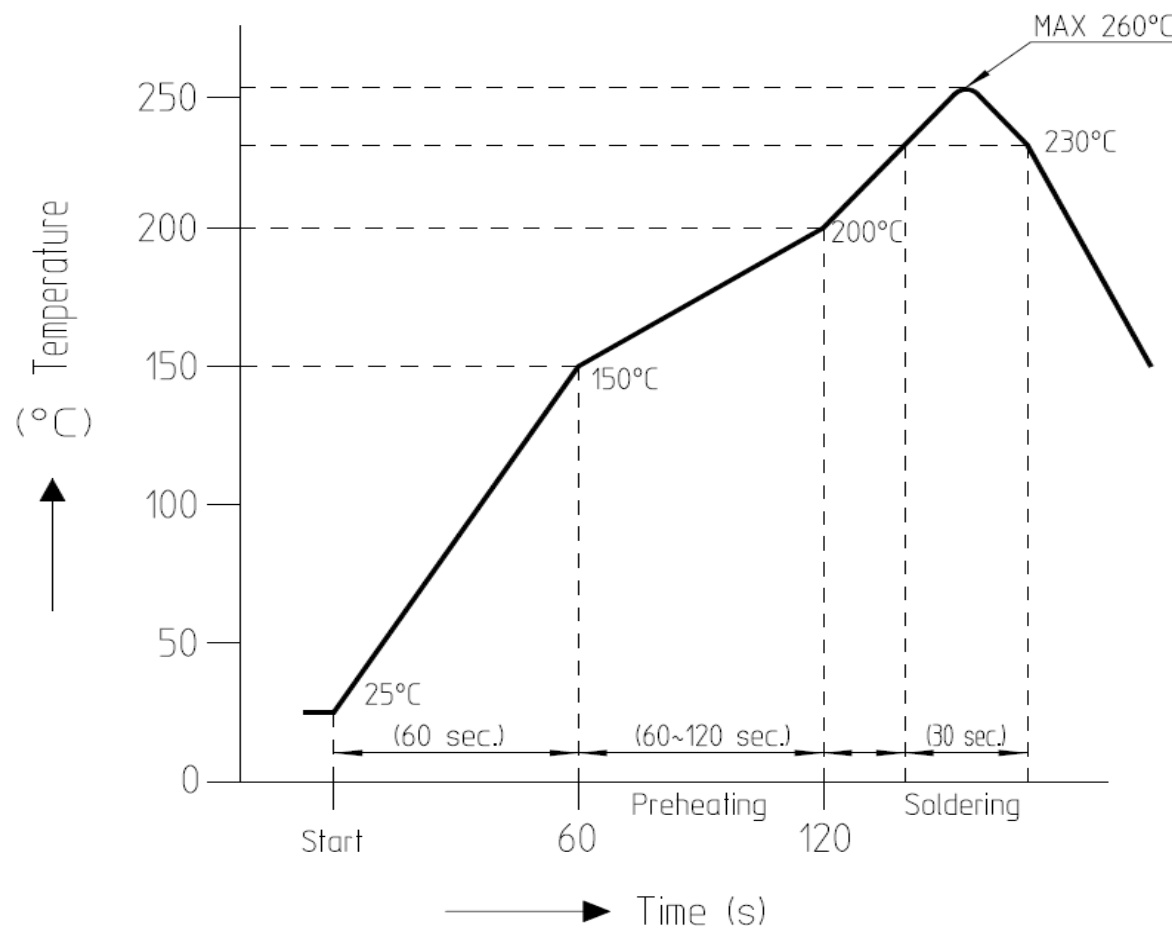


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| COUNT   | DESCRIPTION OF REVISIONS    | BY   | CHKD  | DATE                  | COUNT   | DESCRIPTION OF REVISIONS      | BY                           | CHKD  | DATE  |       |          |
|---|-----------------------------|--|-------|-----------------------|---|-------------------------------|------------------------------|---|-------|-------|----------|
| △1  | 3                           | RE-5-1588  | N.J.W | A.B.H                 | 17.02.27  | △3                            | 2                            | RE-5-2373   | P.J.H | A.B.H | 20.04.24 |
| △2  | 9                           | RE-5-1840  | K.C.J | A.B.H                 | 17.12.12  | △4                            | 2                            | RE-5-2935   | K.C.J | A.B.H | 23.01.11 |
| <b>APPLICABLE STANDARD</b>  |                             |  |       |                       |   |                               |                              |   |       |       |          |
| RATING  | OPERATING TEMPERATURE RANGE | -40℃ ~ 85℃ (NOTE1) △4  |       |                       | STORAGE TEMPERATURE RANGE   | -10℃ TO 60℃ (WITH PACKING) △4 |                              |   |       |       |          |
|   | VOLTAGE                     | AC 10V   |       |                       | OPERATING OR STORAGE HUMIDITY RANGE   | 95% MAXIMUM (NON-CONDENSING)  |                              |   |       |       |          |
|   | CURRENT                     | 0.5A   |       |                       |   |                               |                              |   |       |       |          |
| <b>SPECIFICATIONS</b>   |                             |  |       |                       |   |                               |                              |   |       |       |          |
| ITEM  |                             | TEST METHOD  |       |                       | REQUIREMENTS  |                               |                              | QT  | AT    |       |          |
| <b>CONSTRUCTION</b>   |                             |  |       |                       |   |                               |                              |   |       |       |          |
| GENERAL EXAMINATION   |                             | VISUALLY AND BY MEASURING INSTRUMENT   |       |                       | ACCORDING TO DRAWING  |                               |                              | X   | X     |       |          |
| MARKING   |                             |  |       |                       |   |                               |                              | X   | X     |       |          |
| <b>ELECTRICAL CHARACTERISTICS</b>   |                             |  |       |                       |   |                               |                              |   |       |       |          |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD IEC60512-2-1  |                             | OPEN VOLTAGE 20 mV AC MAX<br>TEST CURRENT 1mA  |       |                       | INITIALLY 100mΩ MAXIMUM (NOTE2)   |                               |                              | X   | -     |       |          |
| INSULATION RESISTANCE IEC60512-3-1 △2   |                             | MEASURE WITHIN 1 MINUTE AFTER APPLYING<br>500V DC  |       |                       | INITIALLY 1000MΩ MINIMUM  |                               |                              | X   | -     |       |          |
| VOLTAGE PROOF IEC60512-4-1 △2   |                             | 500Vrms AC IS APPLIED FOR 1 MINUTE   |       |                       | ① NO FLASHOVER OR BREAKDOWN<br>② CURRENT LEAKAGE 1mA MAXIMUM  |                               |                              | X   | X     |       |          |
| <b>MECHANICAL CHARACTERISTICS</b>   |                             |  |       |                       |   |                               |                              |   |       |       |          |
| MECHANICAL OPERATION [OFFICE ENVIRONMENT] EIA364B class 1.1   |                             | 5,000 TIMES INSERTION AND WITHDRAWAL SHALL BE MADE AT THE CYCLE RATE LESS THAN 10 CYCLES PER 1MINUTE<br><br>NOTE: AFTER EACH 10 CYCLES STOP THE INSERTION AND REST THE CONNECTOR FOR 5 TO 10 MINUTES.<br><br>CARD SURFACE SHALL BE CLEANED BY AIR BLOW:<br>AT EACH 100 CYCLES INTERVAL(10 TIMES) FROM START TO 1,000 CYCLES.<br><br>AT EACH 1,000 CYCLES INTERVAL(4 TIMES) FROM 1,001 CYCLES TO 5,000CYCLES. |       |                       | ① CONTACT RESISTANCE:<br>AFTER TEST 50mΩ MAXIMUM CHANGE<br><br>② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS. |                               |                              | X   | -     |       |          |
| CARD INSERTION FORCE  |                             | MEASURED BY APPLICABLE CARD AT 25±3mm/min  |       |                       | 1 TO 7N (NOTE3)   |                               |                              | X   | -     |       |          |
| CARD EJECTION FORCE   |                             |  |       |                       |   |                               |                              |   |       |       |          |
| VIBRATION AND HIGH FREQUENCY IEC60512-6-4 △2  |                             | FREQUENCY 10 TO 55 TO 10 Hz/min, SINGLE AMPLITUDE 0.75mm FOR 4h IN X,Y,Z 3 DIRECTIONS, TOTAL 12h   |       |                       | ① NO ELECTRICAL DISCONTINUITY OF 1us<br>② NO MECHANICAL DAMAGE SHALL OCCUR ON THE PARTS.                        |                               |                              | X   | -     |       |          |
| SHOCK IEC60512-6-3 △2   |                             | ACCELERATION 490m/s <sup>2</sup> STANDARD HOLDING TIME 11ms, SEMI-SINE WAVE FOR 3 TIMES IN 3 DIRECTIONS, TOTAL 18 TIMES.   |       |                       | ③ CONTACT RESISTANCE<br>AFTER TEST 50mΩ MAXIMUM CHANGE  |                               |                              | X   | -     |       |          |
| <b>REFERENCE DRAWING</b>  |                             |  |       |                       |   |                               |                              |   |       |       |          |
| REMARKS   |                             |  |       | DRAWN                 | DESIGNED  | CHECKED                       | APPROVED                     | RELEASED  |       |       |          |
| (NOTE1) : INCLUDE THE TEMPERATURE RISE BY CURRENT<br>(NOTE2) : CONTACT RESISTANCE INCLUDES CONDUCTOR RESISTANCE UNLESS OTHERWISE SPECIFIED. THE TEST SHOULD BE DONE UNDER TEMP 15 TO 35℃.<br>AIR PRESSURE 86 TO 106kPA, RESLATIVE HUMIDITY 25 TO 85%.<br>(NOTE3) : IT MAY BE CHANGED ACCORDING TO THE TRAY/CARD MATERIAL AND DIMENSIONS. △3 |                             |  |       | M.J.CHEON<br>15.05.18 | M.J.CHEON<br>15.05.18   | M.J.CHEON<br>15.05.18         | H.C.SONG<br>15.05.18         |  |       |       |          |
| NOTE △1 QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST  |                             |  |       |                       |   |                               |                              |   |       |       |          |
| HIROSE KOREA CO.,LTD.   |                             |  |       | SPECIFICATION SHEET   |   |                               | PART NO.<br>KP13C-6S-SF(800) |   |       |       |          |
| CODE NO.(OLD)<br>CL   |                             | DRAWING NO.<br>ELC4-631874   |       |                       | CODE NO.<br>CL 6530-0007-2-800  |                               |                              | 1<br>2  |       |       |          |

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| SPECIFICATIONS                               |  |  |    |    |
|--|--|--|----|----|
| ITEM   | TEST METHOD  | REQUIREMENTS   | QT | AT |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>         |  |  |    |    |
| RAPID CHANGE OF TEMPERATURE<br>IEC60512-11-4 | 5 CYCLES(1CYCLE=1HOUR) WITH CARD MATED CONDITION (TEMPERATURE : -55℃ TO 85℃, RELOCATION TIME TO CHAMBER : WHITIN 5MIN) | ① CONTACT RESISTANCE :<br>AFTER TEST 50mΩ MAXIMUM CHANGE<br><br>② INSULATION RESISTANCE :<br>AFTER TEST 100MΩ MINIMUM<br><br>③ NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS. | X  | -  |
| DRY HEAT<br>IEC60512-11-9                    | EXPOSED AT 85℃ FOR 96 HOURS WITH CARD MATED CONDITION  |  | X  | -  |
| COLD<br>IEC60512-11-10                       | EXPOSED AT -40℃ FOR 96 HOURS WITH CARD MATED CONDITION   |  | X  | -  |
| DAMP HEAT STEADY STATE<br>IEC60512-11-3      | EXPOSED AT 40℃, 90 TO 95%RH, 96 HOURS WITH CARD MATED CONDITION  |  | X  | -  |
| CORROSION SALT MIST<br>IEC60068-2-11         | EXPOSED AT 35±2℃, 5% SALT WATER SPRAY FOR 48Hr   |  | X  | -  |
| RECOMMENDED TEMPERATURE PROFILE              | SEE THE FOLLOWING CONDITION, NUMBER OF CYCLE 1 TIME (NOTE4)  | NO MECHANICAL DAMAGE OR HEAVY CORROSION SHALL OCCUR ON THE PARTS.  | X  | -  |
| (NOTE4)                                      |  |  |    |    |



**REFERENCE DRAWING**

NOTE QT: QUALIFICATION TEST AT: ASSURANCE TEST X: APPLICABLE TEST

|                       |                     |                              |
|-----------------------|---------------------|------------------------------|
| HIROSE KOREA CO.,LTD. | SPECIFICATION SHEET | PART NO.<br>KP13C-6S-SF(800) |
|-----------------------|---------------------|------------------------------|

