| | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| △ | | | | | | △ | | | | | |
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APPLICABLE STANDARD

| | | | | |
|---|---|---|---|---|
| RATING | Operating Temperature Range | −55℃ to +105℃ (Note1) | Storage Temperature Range | −10℃ to +60℃ (Note3) |
| | Operating Humidity Range | 20% to 80% (Note2) | Storage Humidity Range | 40% to 70% (Note3) |
| | Applicable Connector | DF51K-∗(D)S-2C (###) | Voltage | 250V AC/DC |
| | Applicable Cable | AWG#30 | Current | AWG 30 : 0.5A |
| | Insulation Diameter | $\phi$0.8 mm | | |

# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| General Examination | Visually and by measuring instrument. | According to drawing. | o | o |
| Marking | Confirmed visually. | | o | o |
| **ELECTRICAL CHARACTERISTICS** | | | | |
| Contact Resistance<br>Millivolt Level Method | 20mV MAX, 1mA (DC or 1000Hz). | 30 mΩ MAX. | o | − |
| **MECHANICAL CHARACTERISTICS** | | | | |
| Mechanical Operation<br>(Sn Plating) | 30 times insertion and extraction. | ①Contact resistance: 30mΩ MAX<br>②No damage, crack or looseness of parts. | o | − |
| Mechanical Operation<br>(Au Plating) | 50 times insertion and extraction. | ①Contact resistance: 30mΩ MAX<br>②No damage, crack or looseness of parts. | o | − |
| Vibration | Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction. | ①No electrical discontinuity of 1 $\mu$s.<br>②No damage, crack or looseness of parts. | o | − |
| Shock | Acceleration 490 m/s$^2$ duration of pulse 11 ms at 3 times for 3 directions. | | o | − |
| | | | | |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| Damp Heat<br>(Steady State) | Exposed at 40 ± 2 ℃ , humidity 90 to 95 %, 96 h.<br>(After leaving the room temperature for 1 to 2h.) | ①Contact resistance: 30 mΩ MAX.<br>②No damage, crack or looseness of parts. | o | − |
| Rapid Change of Temperature | Temperature −55 ℃→ +105 ℃<br>Time 30min→ 30min Under 5 Cycles.<br>(The transferring time of the tank is 2 to 3 MIN)<br>(After leaving the room temperature for 1 to 2h.) | ①Contact resistance: 30 mΩ MAX.<br>②No damage, crack or looseness of parts. | o | − |

Remarks
Note 1: Include the temperature rising by current.
Note 2: No condensing
Note 3: Apply to the condition of long term storage for unused products before pcb on board, after pcb board , operating temperature and humidity range is applied for interim storage during transportation.

| | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
|---|---|---|---|---|---|
| | KIM. Y. H | KIM. Y. H | LIM. S. M | LIM. S. M | ENG |
| | 18.10.02 | 18.10.02 | 18.10.02 | 18.10.02 | 20. 02. 13 |
| Unless otherwise specified, refer to IEC 60512. | | | | | DEPT |

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

| HIROSE KOREA CO.,LTD. | SPECIFICATION SHEET | PART NO. DF51K-30SCA (800) |
|---|---|---|

| CODE NO.(OLD) | DRAWING NO. | CODE NO. | |
|---|---|---|---|
| CL | ELC4-611517 | CL 6652-0070-4-800 | 1/1 |

F-1-021(Rev.0)

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