

## Excellent Integrated System Limited

Stocking Distributor

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[Hirose Electric Co Ltd](#)  
[KMC9BPD-4P\(71\)](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

2005/12/16 08:44:12 CAROL TRIBBLE

参考図：ご確認用。正式には別途納入仕様書をご請求願います。

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
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|                     |                             |                    |                           |
|---------------------|-----------------------------|--------------------|---------------------------|
| APPLICABLE STANDARD |                             |                    |                           |
| RATING              | OPERATING TEMPERATURE RANGE | -25 °C TO +85 °C   | STORAGE TEMPERATURE RANGE |
|                     | VOLTAGE                     | AC 100 V, DC 140 V |                           |
|                     | CURRENT                     | 1 A                | APPLICABLE CABLE          |
|                     |                             |                    | φ 6                       |

  

### SPECIFICATIONS

| ITEM                                      | TEST METHOD                                                                                                    | REQUIREMENTS                                                                                                                                        | QT | AT |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| <b>CONSTRUCTION</b>                       |                                                                                                                |                                                                                                                                                     |    |    |
| GENERAL EXAMINATION                       | VISUALLY AND BY MEASURING INSTRUMENT.                                                                          | ACCORDING TO DRAWING.                                                                                                                               | ×  | ×  |
| MARKING                                   | CONFIRMED VISUALLY.                                                                                            |                                                                                                                                                     | ×  | ×  |
| <b>ELECTRIC CHARACTERISTICS</b>           |                                                                                                                |                                                                                                                                                     |    |    |
| CONTACT RESISTANCE                        | CONTACT SHALL BE MEASURED AT DC 1 A                                                                            | 10 mΩ MAX.                                                                                                                                          | ×  | ×  |
|                                           | CONTACT SHALL BE MEASURED AT DC — A                                                                            | — mΩ MAX.                                                                                                                                           | —  | —  |
| INSULATION RESISTANCE                     | 100 V DC.                                                                                                      | 200 MΩ MIN.                                                                                                                                         | ×  | ×  |
| VOLTAGE PROOF                             | 300 V AC FOR 1 min.                                                                                            | NO FLASHOVER OR BREAKDOWN.                                                                                                                          | ×  | ×  |
| <b>MECHANICAL CHARACTERISTICS</b>         |                                                                                                                |                                                                                                                                                     |    |    |
| CONTACT INSERTION AND WITHDRAWAL FORCES   | — BY STEEL GAUGE.                                                                                              | INSERTION AND WITHDRAWAL FORCES: — N MIN.                                                                                                           | —  | —  |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR.                                                                              | INSERTION AND WITHDRAWAL FORCES: 30 N MAX.                                                                                                          | ×  | —  |
| MECHANICAL OPERATION                      | 1000 TIMES INSERTIONS AND EXTRACTIONS.                                                                         | CONTACT RESISTANCE: 15 mΩ MAX.                                                                                                                      | ×  | —  |
|                                           |                                                                                                                | — RESISTANCE: — mΩ MAX.                                                                                                                             | —  | —  |
| VIBRATION                                 | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, — m/s <sup>2</sup> AT 2 h, FOR 3 DIRECTIONS.                  | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                                              | ×  | —  |
| SHOCK                                     | 490 m/s <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                                    | ① NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.                                                              | ×  | —  |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>      |                                                                                                                |                                                                                                                                                     |    |    |
| DAMP HEAT (STEADY STATE)                  | EXPOSED AT 40 °C, 90 TO 95 %, 96 h.                                                                            | ① INSULATION RESISTANCE: 2 MΩ MIN (AT HIGH HUMIDITY).<br>② INSULATION RESISTANCE: 20 MΩ MIN (AT DRY).<br>③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | ×  | —  |
| RAPID CHANGE OF TEMPERATURE               | TEMPERATURE -55 → R/T <sup>①</sup> → +85 → R/T °C<br>TIME 30 → 10 TO 15 → 30 → 10 TO 15 min<br>UNDER 5 CYCLES. | ① INSULATION RESISTANCE: 200 MΩ MIN.<br>② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                                  | ×  | —  |
| CORROSION SALT MIST                       | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.                                                                      | NO HEAVY CORROSION.                                                                                                                                 | ×  | —  |
| DRY HEAT                                  | EXPOSED AT + 85 °C, 96 h.                                                                                      | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                                                                            | ×  | —  |
| COLD                                      | EXPOSED AT - 25 °C, 96 h.                                                                                      | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.                                                                                                            | ×  | —  |
| RESISTANCE TO SOLDERING HEAT              | SOLDER TEMPERATURE, + 350 °C, FOR SOLDERING DURATION, 3 <sup>+1</sup> <sub>0</sub> s.                          | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.                                                                                     | ×  | —  |
| SOLDERABILITY                             | SOLDERED AT SOLDER TEMPERATURE, + 350 °C FOR SOLDERING DURATION, 2 TO 3 s.                                     | WETTING ON SOLDER SURFACE, NO SOLDER CLUSTER.                                                                                                       | ×  | —  |
|                                           |                                                                                                                |                                                                                                                                                     |    |    |

  

|         |                           |                           |                         |                     |          |
|---------|---------------------------|---------------------------|-------------------------|---------------------|----------|
| REMARKS | DRAWN                     | DESIGNED                  | CHECKED                 | APPROVED            | RELEASED |
|         | H. Kawashima<br>'05.11.21 | H. Kawashima<br>'05.11.21 | T. Ohigama<br>'05.11.25 | M. Sato<br>05.11.26 |          |

NOTE(1) R/T : ROOM TEMPERATURE

Unless otherwise specified, refer to JIS C 5402.

Note QT:Qualification Test AT:Assurance Test ×:Applicable Test

|                |                           |                     |                 |  |
|----------------|---------------------------|---------------------|-----------------|--|
| HRS            | HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO.        |  |
|                |                           |                     | KMC9BPD-4P (71) |  |
| CODE NO. (OLD) | DRAWING NO.               | CODE NO.            | 1               |  |
| CL             | ELC4-007488-71            | CL110-0013-8-71     | 1               |  |

