



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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| 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 80 °C | STORAGE TEMPERATURE RANGE | °C TO °C | |
| | VOLTAGE | 125 V AC | CURRENT | 500 mA | |

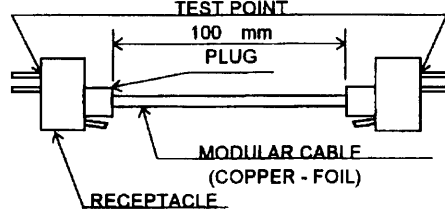
SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

CONSTRUCTION

| | | | | |
|---------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | <input type="radio"/> | <input type="radio"/> |
| MARKING | CONFIRMED VISUALLY. | | <input type="radio"/> | <input type="radio"/> |

ELECTRIC CHARACTERISTICS


| | | | | |
|-----------------------|--|----------------------------|-----------------------|-----------------------|
| CONTACT RESISTANCE | 100 mA DC (OR 1000 Hz AC). MEASUREMENT POINTS SHALL BE AS FOLLOWS. TEST POINT  (ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.) | 200 mΩ MAX. | <input type="radio"/> | <input type="radio"/> |
| INSULATION RESISTANCE | 100 V DC. | 100 MΩ MIN. | <input type="radio"/> | <input type="radio"/> |
| VOLTAGE PROOF | 500 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | <input type="radio"/> | <input type="radio"/> |

MECHANICAL CHARACTERISTICS

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|----------------------|---|--|-----------------------|-----------------------|
| MECHANICAL OPERATION | 200 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 220 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | <input type="radio"/> | <input type="radio"/> |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, _____ m/s ² AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 5 μs. | <input type="radio"/> | <input type="radio"/> |
| SHOCK | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION. | ② CONTACT RESISTANCE: 220 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | <input type="radio"/> | <input type="radio"/> |

ENVIRONMENTAL CHARACTERISTICS

| | | | | |
|-----------------------------|--|---|-----------------------|-----------------------|
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 °C, 90 TO 95 %, 500 h. | ① CONTACT RESISTANCE: 220 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 10 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | <input type="radio"/> | <input type="radio"/> |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55±3 → 5 TO 35 → 85±2 → 5 TO 35°C TIME 30 TO 35→5 MAX→30 TO 35→5 MAX min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 220 mΩ MAX. ② INSULATION RESISTANCE: 100 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | <input type="radio"/> | <input type="radio"/> |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 220 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|---|--------------------------|--------------------------|-----------------------------|-----------------------------|---|
| REMARKS FOR REFERENCE ONLY Subject to change without notice Unless otherwise specified, refer to JIS C 5402. | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | <i>T. Aso</i> 98'6'23 | <i>T. Aso</i> 98'6'23 | <i>H. Tanaka</i> 98.6.24 | <i>H. Tanaka</i> 98.6.24 |  |

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

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| HRS HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET | PART NO. TM18RA-IB-62 |
| CODE NO.(OLD) CL | DRAWING NO. ELC4 - 121115 | CODE NO. CL 222 - 2838 - 4 |

TO
Q2



