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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| APPLICABLE STANDARD | | | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | −55°C TO +125°C(95%RH MAX) | STORAGE TEMPERATURE RANGE | −55°C TO +125°C(95%RH MAX) |
| | POWER | ——— W | CHARACTERISTIC IMPEDANCE | 5 0 Ω (0.045 TO 65 GHz) |
| | PECULIARITY | ——— | APPLICABLE CABLE | ——— |

# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | — | — |
| **ELECTRIC CHARACTERISTICS** | | | | |
| CONTACT RESISTANCE | 100 mA MAX (DC OR 1000 Hz). | CENTER CONTACT 16 mΩ MAX. | X | X |
| | | OUTER CONTACT 16 mΩ MAX. | X | X |
| INSULATION RESISTANCE | 250 V DC. | 500 MΩ MIN. | X | X |
| VOLTAGE PROOF | 250 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX. | NO FLASHOVER OR BREAKDOWN. | X | X |
| RETURN LOSS | FREQUENCY 0.045 TO 65 GHz. | RETURN LOSS 15dB MIN : 0.045 TO 40 GHz<br>10dB MIN : 40 TO 65 GHz | X | X |
| INSERTION LOSS | FREQUENCY TO GHz | dB MAX. | — | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | [SMPM SIDE] $\phi 0.32^{+0.0025}_{0}$ BY STEEL GAUGE. | INSERTION FORCE 6.7 N MAX. | X | — |
| | | EXTRACTION FORCE N MIN | — | — |
| | [SMPM SIDE] $\phi 0.2896^{+0.0025}_{0}$ BY STEEL GAUGE. | INSERTION FORCE N MAX. | — | — |
| | | EXTRACTION FORCE 0.1 N MIN | X | X |
| | [HV SIDE] $\phi 0.495^{0}_{-0.005}$ BY STEEL GAUGE. | INSERTION FORCE N MAX. | — | — |
| | | EXTRACTION FORCE 0.2 N MIN | X | X |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR.<br>[APPLICABLE CONNECTOR : SMPMP(FD)-HVP] | INSERTION FORCE 26.7 N MAX.<br>EXTRACTION FORCE 13.4 N MIN | X<br>X | —<br>— |
| MECHANICAL OPERATION | 100 TIMES INSERTIONS AND EXTRACTIONS. | 1) CONTACT RESISTANCE:<br>CENTER CONTACT 28 mΩMAX.CHANGE<br>OUTER CONTACT 28 mΩMAX.CHANGE<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 500 Hz<br>SINGLE AMPLITUDE 0.75 mm, 98 $m/s^2$<br>AT 10 CYCLES FOR 3 DIRECTIONS. | 1) NO ELECTRICAL DISCONTINUITY OF 1μs.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| SHOCK | 490 $m/s^2$ DIRECTIONS OF PULSE 11 ms<br>AT 3 TIMES FOR 3 DIRECTIONS. | | X | — |
| CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL) | APPLYING A PULL FORCE THE CABLE AXIALLY<br>AT N MAX. | 1) NO WITHDRAWAL AND BREAKAGE OF CABLE.<br>2) NO BREAKAGE OF CLAMP. | — | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT,CYCLIC | EXPOSED AT -10 TO +65 °C, 90～98%<br>TOTAL 10 CYCLES ( 240 h ) | 1) INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY)<br>2) INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY)<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE −65 → --- → +125 → --- °C<br>TIME 30 → 3 → 30 → 3 min.<br>UNDER 5 CYCLES. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h | NO HEAVY CORROSION | X | — |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| A | | | | | |

REMARK
RoHS COMPLIANT

Unless otherwise specified, refer to JIS C 5402.

| | | |
|---|---|---|
| APPROVED | MH. YAMANE | 08. 07. 19 |
| CHECKED | TS. NOBE | 08. 07. 18 |
| DESIGNED | RO. YOKOYAMA | 08. 07. 18 |
| DRAWN | RO. YOKOYAMA | 08. 07. 18 |

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

DRAWING NO. ELC4-313093-00

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | SMPMJ-HVJ | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL311-0421-7-00 | A 1/ 1 |

FORM HD0011-2-1

# Unikeyic Electronics

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