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| 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 | 50 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 10dB MIN : 40 TO 65 GHz | X | X | |
| INSERTION LOSS | FREQUENCY TO GHz | | dB MAX. | — | — | |

MECHANICAL CHARACTERISTICS

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|---|---|--|-------------|---|---|
| CONTACT INSERTION AND EXTRACTION FORCES | [SMPM SIDE] φ0.32 +0.0025 0 BY STEEL GAUGE. | INSERTION FORCE | 6.7 N MAX. | X | — |
| | | EXTRACTION FORCE | N MIN | — | — |
| | [SMPM SIDE] φ0.2896 +0.0025 0 BY STEEL GAUGE. | INSERTION FORCE | N MAX. | — | — |
| | | EXTRACTION FORCE | 0.1 N MIN | X | X |
| | [HV SIDE] φ0.495 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. [APPLICABLE CONNECTOR : SMPMP(FD)-HVP] | INSERTION FORCE | 26.7 N MAX. | X | — |
| MECHANICAL OPERATION | 100 TIMES INSERTIONS AND EXTRACTIONS. | EXTRACTION FORCE | 13.4 N MIN | X | — |
| | | 1) CONTACT RESISTANCE: CENTER CONTACT 28 mΩMAX.CHANGE OUTER CONTACT 28 mΩMAX.CHANGE 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | — |
| VIBRATION | FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, 98 m/s ² AT 10 CYCLES FOR 3 DIRECTIONS. | 1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | | X | — |
| SHOCK | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | | X | — |
| CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL) | APPLYING A PULL FORCE THE CABLE AXIALLY AT N MAX. | 1) NO WITHDRAWAL AND BREAKAGE OF CABLE. 2) NO BREAKAGE OF CLAMP. | | — | — |

ENVIRONMENTAL CHARACTERISTICS

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|-----------------------------|---|---|---|---|
| DAMP HEAT,CYCLIC | EXPOSED AT -10 TO +65 °C, 90~98% TOTAL 10 CYCLES (240 h) | 1) INSULATION RESISTANCE: 100 MΩ MIN. (AT HIGH HUMIDITY) 2) INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -65 → --- → +125 → --- °C TIME 30 → 3 → 30 → 3 min. 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 |
|-------|--------------------------|----------|---------|------|
| 0 | | | | |

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| 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 |

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| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-313093-00 |
|--|-------------|----------------|

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