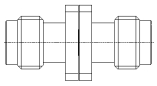
| APPLICABLE STANDARD | | MIL-STD-348B | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | −55°C TO +105°C(95%RH MAX) | STORAGE TEMPERATURE RANGE | −55°C TO +50°C(95%RH MAX) |
| | POWER | ——— W | CHARACTERISTIC IMPEDANCE | 50Ω ( 0 TO 50 GHz) |
| | PECULIARITY | ——— | APPLICABLE CABLE | ——— |

# SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|---|---|---|---|---|
| **CONSTRUCTION** | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | × | × |
| MARKING | CONFIRMED VISUALLY. | | — | — |
| **ELECTRIC CHARACTERISTICS** | | | | |
| CONTACT RESISTANCE | 100 mA MAX (DC OR 1000 Hz). | CENTER CONTACT 4 mΩ MAX. | × | × |
| | | OUTER CONTACT 2 mΩ MAX. | × | × |
| INSULATION RESISTANCE | 500 V DC. | 5000 MΩ MIN. | × | × |
| VOLTAGE PROOF | 500 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX. | NO FLASHOVER OR BREAKDOWN. | × | × |
| VOLTAGE STANDING WAVE RATIO 1 | FREQUENCY 0.045 TO 50 GHz.<br>TEST METHOD IS BACK TO BACK. | VSWR 1.35 MAX. (0.045 TO 26.5GHz)<br>VSWR 1.40 MAX. (26.5 TO 40GHz)<br>VSWR 1.45 MAX (40 TO 50GHz) | × | × |
| INSERTION LOSS | FREQUENCY TO GHz | dB MAX. | — | — |
| **MECHANICAL CHARACTERISTICS** | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | EXTRACTION GAUGE: $\phi 0.495\ ^{0}_{-0.005}$ STEEL GAUGE. | INSERTION FORCE N MAX. | — | — |
| | | EXTRACTION FORCE 0.2~2 N MIN. | × | × |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE N MAX. | — | — |
| | | EXTRACTION FORCE N MIN. | — | — |
| MECHANICAL OPERATION | 500 TIMES INSERTIONS AND EXTRACTIONS. | 1) CONTACT RESISTANCE:<br>CENTER CONTACT 6 mΩMAX.<br>OUTER CONTACT 4 mΩMAX.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| VIBRATION | FREQUENCY 10 TO 2000 Hz<br>SINGLE AMPLITUDE 0.75 mm, 196 $m/s^2$<br>AT 10 CYCLES FOR 3 DIRECTIONS. | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| SHOCK | 980 $m/s^2$ DIRECTIONS OF PULSE 6 ms<br>AT 3 TIMES FOR 3 DIRECTIONS. | | × | — |
| **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: 5000 MΩ MIN. (AT DRY)<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE −55 → −− → +105 → −− °C<br>TIME 30 → 3 → 30 → 3 min.<br>UNDER 5 CYCLES. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| CORROSION SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | NO HEAVY CORROSION. | × | — |

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

REMARK
RoHS COMPLIANT
NOTE 1 MEASUREMENT STATE OF BACK TO BACK

PORT1  PORT2

UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-202.

| | | |
|---|---|---|
| APPROVED | KY. SHIMIZU | 14. 12. 24 |
| CHECKED | KY. SHIMIZU | 14. 12. 24 |
| DESIGNED | TS. SAWAI | 14. 12. 24 |
| DRAWN | TS. SAWAI | 14. 12. 24 |

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

DRAWING NO. ELC4-356161-12

HRS HIROSE ELECTRIC CO., LTD.

SPECIFICATION SHEET

PART NO. H2. 4-R-SR2(12)

CODE NO. CL338-0601-8-12 A 1/1

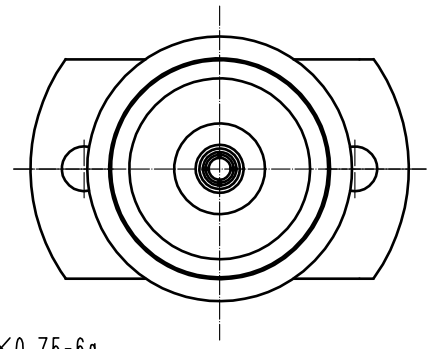
FORM HD0011-2-1

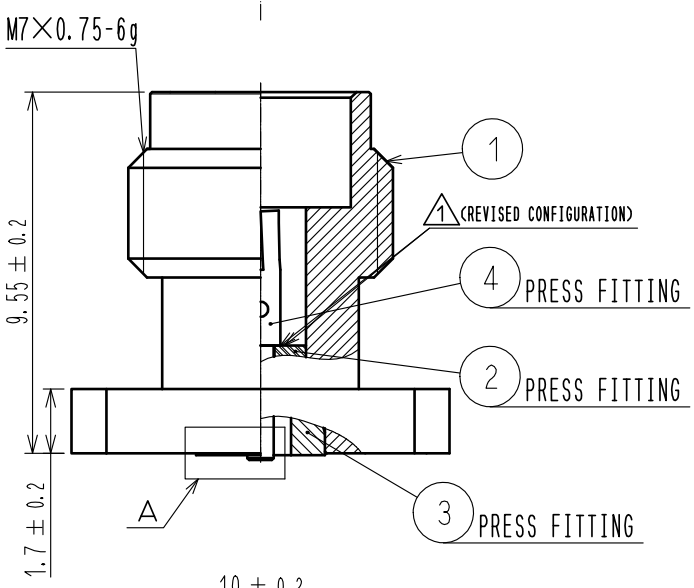
1 WHEN MATING THE CONNECTOR, PLEASE HOLD THE FRAISE WITH SPANNER NOT TO PLACE STRESS ON PCB BY THE TORQUE.

2 0-80UNF-2B SCREW TIGHTENINGB TORQUE IS 0.09N・m.

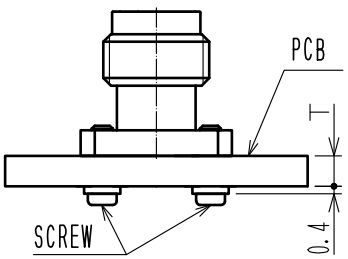
3 PLEASE USE ATTACHED SCREW AND WASHER FOR PCB MOUNTING. ATTACHED SCREW AND WASHER APPLY PCB THICKNES T=0.8 TO 2.65mm. (RECOMMENDED FR-4 PCB THICKNESS:1.6mm MIN)

4 RESIST OF INSIDE OF ∅4.35±0.02 (GROUND PAD) IS PROHIBITED.

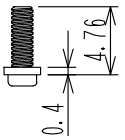




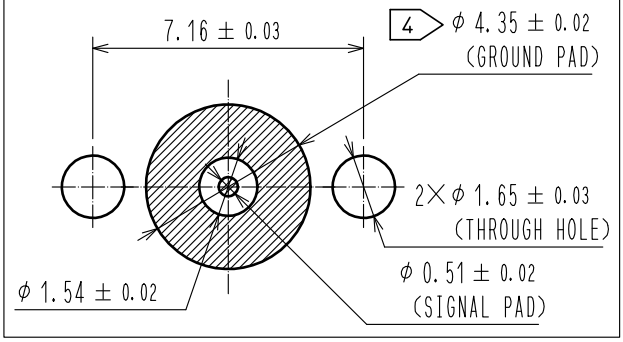

MOUNTING DRAWING(2:1)

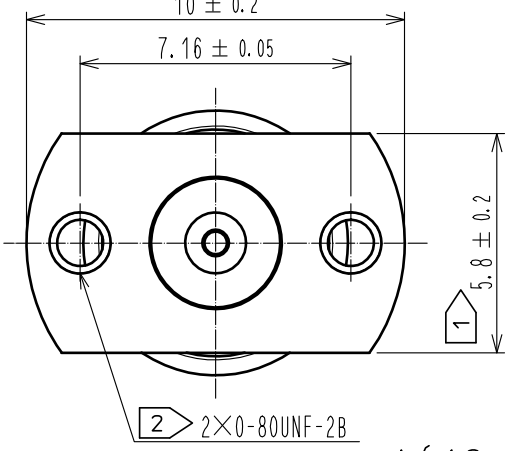


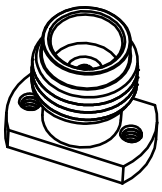

3 0-80UNF-2A SCREW OUTSIDE DRAWING



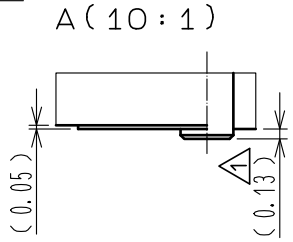

RECOMMENDED LAND PATTERN DRAWING



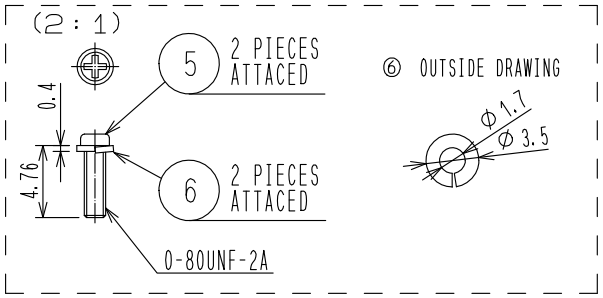



A(10:1)




(2:1)




RoHS COMPLIANT

| NO. | MATERIAL | FINISH . REMARKS | NO. | MATERIAL | FINISH . REMARKS |
|---|---|---|---|---|---|
| 3 | STAINLESS STEEL | GOLD PLATING | 6 | STAINLESS STEEL | SPRING WASHER |
| 2 | PTFE | | 5 | STEEL | 0-80UNF-2A SCREW |
| 1 | STAINLESS STEEL | PASSIVATE | 4 | BERYLLIUM COPPER | GOLD PLATING |

| UNITS | SCALE | | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|---|---|
| mm | 5 : 1 | 1 | 2 | DIS-D-00000411 | TS. SAWAI | KY. SHIMIZU | 15.07.23 |

HIROSE ELECTRIC CO., LTD.

| | | |
|---|---|---|
| APPROVED | KY. SHIMIZU | 14.12.24 |
| CHECKED | KY. SHIMIZU | 14.12.24 |
| DESIGNED | TS. SAWAI | 14.12.24 |
| DRAWN | TS. SAWAI | 14.12.24 |

| | |
|---|---|
| DRAWING NO. | EDC4-356161-12 |
| PART NO. | H2.4-R-SR2(12) |
| CODE NO. | CL338-0601-8-12 1 |