

| APPLICABLE STANDARD | | | | | |
|--|-----------------------------|--|--|---------------------------------------|------------|
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO +85 °C ^{(1) (2)} | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C ⁽³⁾ | |
| | OPERATING HUMIDITY RANGE | RH 90 % MAX ^{(2) (4)} | STORAGE HUMIDITY RANGE | RH 70 % MAX ^{(3) (4)} | |
| | VOLTAGE | 300 V DC/AC | CURRENT | Apply to spec of applicable connector | |
| SPECIFICATIONS | | | | | |
| ITEM | | TEST METHOD | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | | VISUAL AND WITH MEASURING INSTRUMENT | ACCORDING TO DRAWING | x | x |
| MARKING | | CONFIRMED VISUALLY | | x | x |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE [EIA-364-23] | | 100 mA OPEN CIRCUIT MAX. | 2 mΩ MAX. ⁽⁵⁾ MATED WITH IT-P-2P-14H | x | x |
| INSULATION RESISTANCE [EIA-364-21] | | 500 V DC | 1000 MΩ MIN. | x | |
| VOLTAGE PROOF [EIA-364-20] | | 1000 V AC FOR 1 MINUTE | NO FLASHOVER OR BREAKDOWN. | x | |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCES [EIA-364-13] | | MEASURED WITH RESPECT TO APPLICABLE CONNECTORS | INSERTION FORCE: 75 N MAX / Pair WITHDRAWAL FORCE: 3 N MIN. / Pair | x | |
| MECHANICAL OPERATION [EIA-364-09] | | 100 TIMES INSERTION AND EXTRACTION | ① CONTACT RESISTANCE: 2 mΩ MAX. ⁽⁵⁾ ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS | x | |
| RANDOM VIBRATION [EIA-364-28] | | FREQUENCY : 50 TO 2000 Hz POWER SPECTRAL DENSITY : 0.1 g ² /Hz FOR 90 MINUTES IN THREE DIRECTIONS * The test PCB has been fixed by spacers. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs OR MORE ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS | x | |
| SHOCK [EIA-364-27] | | 490 m/s ² , DURATION OF PULSE : 11 ms 18 TIMES TOTAL , 3 EACH DIRECTION , 3 AXIS * The test PCB has been fixed by spacers. | | x | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| THERMAL SHOCK [EIA-364-32] | | TEMPERATURE: -55 → 20 ~ 35 → 85 → 20 ~ 35 °C TIME: 30 → 5 MAX → 30 → 5 MAX min. UNDER 10 CYCLES | ① CONTACT RESISTANCE : 2 mΩ MAX. ⁽⁵⁾ ② INSULATION RESISTANCE : 100 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS | x | |
| CYCLIC TEMPERATURE AND HUMIDITY [EIA-364-31] | | @ 25 °C, 80% RH: 60 MIN DWELL TIME 30 MIN RAMP TIME @ 65 °C, 50% RH: 60 MIN DWELL TIME UNDER 24 CYCLES | | | |
| DRY HEAT [EIA-364-17] | | EXPOSED AT 105 °C, 120 hr | ① CONTACT RESISTANCE : 2 mΩ MAX. ⁽⁵⁾ ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS | x | |
| MIXED FLOWING GAS [EIA-364-65] | | EXPOSED AT 30 °C, 70% Cl ₂ : 10 ppb, NO ₂ : 200 ppb, H ₂ S : 10 ppb, SO ₂ : 100 ppb UNMATED 7 DAYS, MATED 7 DAYS | ① CONTACT RESISTANCE : 2 mΩ MAX. ⁽⁵⁾ ② NO HEAVY CORROSION | x | |
| REFLOW TEMPERATURE CONDITION [IPC / JEDEC STD-020] | | PRECONDITION AT 60 °C, 60% RH FOR 120 hr REFLOW PEAK TEMPERATURE : 260 °C AT CONNETOR SURFACE | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL. | x | |
| | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| REMARKS | | | APPROVED | MK. EZAKI | 14. 11. 21 |
| (1) INCLUDE TEMPERATURE RISE CAUSED BY CURRENT-CARRYING. | | | CHECKED | TS. OSHIDA | 14. 11. 21 |
| (2) OPERATING TEMPERATURE SHOULD BE -55 TO 55°C WHEN HUMIDITY EXCEEDS 80% RH. | | | DESIGNED | NY. SHIMURA | 14. 11. 21 |
| (3) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB. | | | DRAWN | NY. SHIMURA | 14. 11. 21 |
| (4) NO DEW CONDENSATION IS PERMITTED. | | | | | |
| (5) THE VALUE OF CONTACT RESISTANCE INCLUDES 2 CONTACT POINTS AND THE BULK RESISTANCE. | | | | | |
| Note; QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC4-354232-00 | |
| HRS | SPECIFICATION SHEET | | PART NO. | IT-P-2S-DIRL | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL636-0611-3-00 | 0 1/1 |