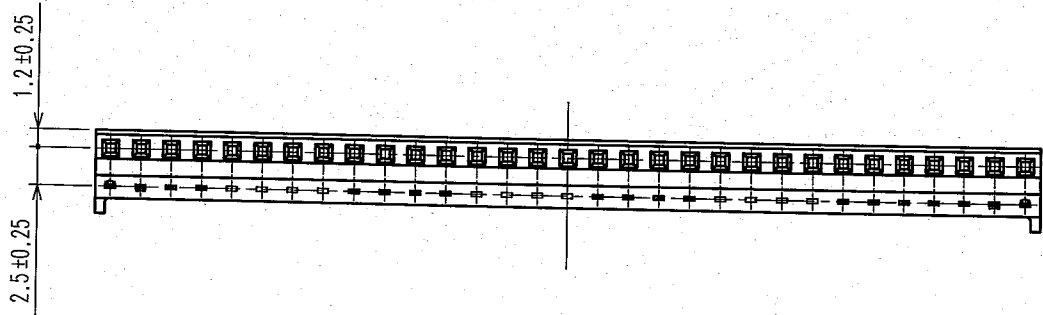
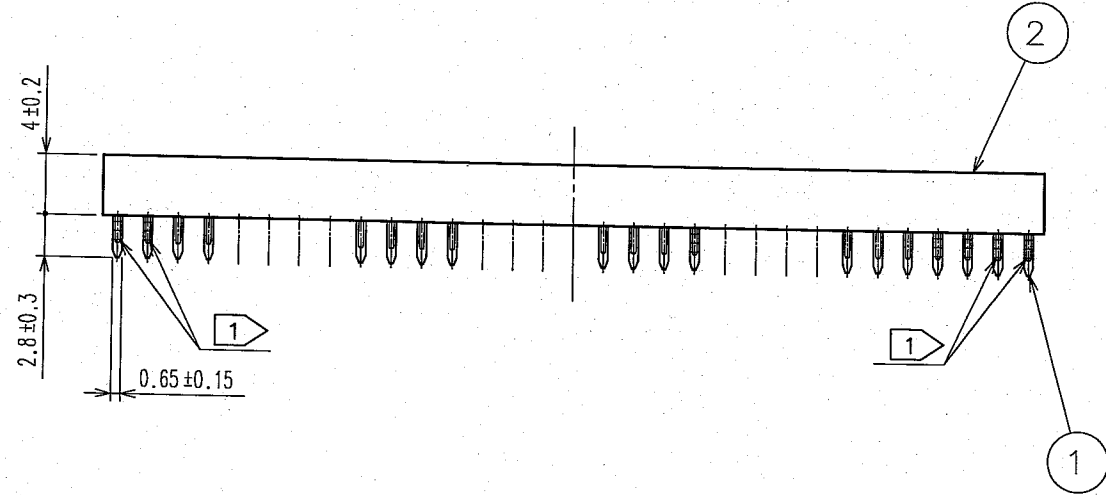
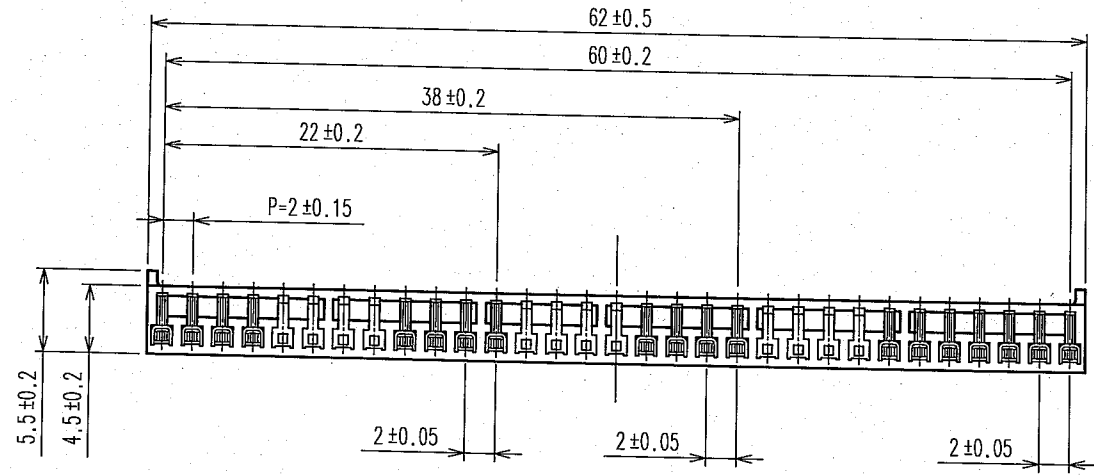


| APPLICABLE STANDARD | | | | | |
|---|---|---|---------------------------|--------------------|----------------|
| RATING | OPERATING TEMPERATURE RANGE | -30°C TO +85°C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C | |
| | VOLTAGE | 250V AC | | | |
| | CURRENT | 2A | | | |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT | |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | - | |
| MARKING | CONFIRMED VISUALLY. | | X | - | |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 100mA (DC OR 1000 Hz). | 30mΩ MAX. | X | - | |
| INSULATION RESISTANCE | 500V DC | 1000MΩ MAX | X | - | |
| VOLTAGE PROOF | 650V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | - | |
| MECHANICAL CHARACTERISTICS | | | | | |
| CONTACT INSERTION AND EXTRACTION FORCES | □0.5±0.002 BY STEEL GAUGE. | INSERTION FORCE 4.4 N MAX. EXTRACTION FORCE 0.3 N MIN. | X | - | |
| MECHANICAL OPERATION | 50 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 30mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | - | |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55→15 TO 35→85→15 TO 35°C TIME 30 → 10 TO 15 → 30 → 10 TO 15 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | ① CONTACT RESISTANCE: 30mΩ MAX. ② INSULATION RESISTANCE: 1000 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - | |
| CORROSION SALT MIST | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | X | - | |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) | ① CONTACT RESISTANCE: 60 mΩ MAX. ② NO HEAVY CORROSION. | X | - | |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260±5°C FOR IMMERSION, DURATION, 10S. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 245±5°C FOR IMMERSION DURATION, 3S. | SOLDER SHALL COVER MINIMUM OF 95% OF THE SURFACE BEING IMMERSED. | X | - | |
| REMARKS | | | | | |
| NOTE1: INCLUDING THE TEMPERATURE RISE BY CURRENT. | | | | | |
| UNLESS OTHERWISE SPECIFIED, REFER TO MIL-STD-1344. | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| | | | APPROVED | KH. IKEDA | 05.11.24 |
| | | | CHECKED | TS. MIYAZAKI | 05.11.24 |
| | | | DESIGNED | YH. MICHIDA | 05.11.24 |
| | | | DRAWN | HK. MURAKAMI | 05.11.22 |
| Note QT: Qualification Test AT: Assurance Test X: Applicable Test | | | DRAWING NO. | | ELG4-071907-07 |
| SPECIFICATION SHEET | | | PART NO. | DF10-31S-2DSA (62) | |
| HIROSE ELECTRIC CO., LTD. | | | CODE NO. | CL545-0022-5-62 | △ 1/1 |

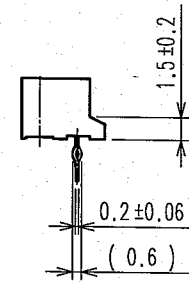
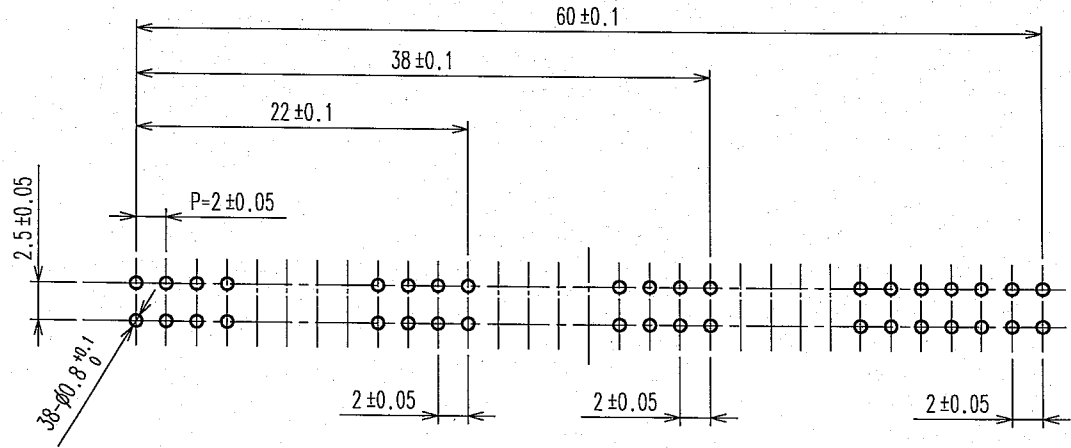
2006/04/27 01:20:57 ctribble

DRAWING FOR REFERENCE: This is subject to change without notice



| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
| △ | | | | .. | △ | | | | .. |
| △ | | | | .. | △ | | | | .. |
| △ | | | | .. | △ | | | | .. |

RECOMMENDED PC BOARD HOLE PATTERN



- NOTES
- 1: KINK SHOULD BE GIVEN ON 2 BOTH EDGE SIDE PINS ALTERNATELY.
 - 2: CONTACT AREA: GOLD PLATED (0.1μ m min)
LEAD AREA: TIN PLATED (REFLOW FINISHED) 1μ m min
UNDER PLATING: NICKEL 0.5μ m min

| | | | | | |
|----------------|-----------------|-----------------|------------------------------|-------------------|--------------------|
| 1 | PHOSPHOR BRONZE | 2 | POLYAMIDE | BLACK, UL94V-0 | |
| NO. | MATERIAL | FINISH, REMARKS | NO. | MATERIAL | FINISH, REMARKS |
| CODE NO. (OLD) | | | DRAWN | DESIGNED | CHECKED |
| | | | <i>H. Murakami</i> | <i>J. Michida</i> | <i>T. Miyajaki</i> |
| | | | <i>05.11.24</i> | <i>05.11.24</i> | <i>05.11.24</i> |
| | | | APPROVED | RELEASED | |
| | | | <i>H. Ikeda</i> | | |
| DRAWING NO. | | | PART NO. | | |
| EDC3-071907-07 | | | DF10-31S-2DSA(62) | | |
| SCALE | | | CODE NO. | | |
| 2 : 1 | | | CL545-0022-5-62 | | |
| UNITS | | | 1/1 | | |
| mm | | | HRS HIROSE ELECTRIC CO., LTD | | |