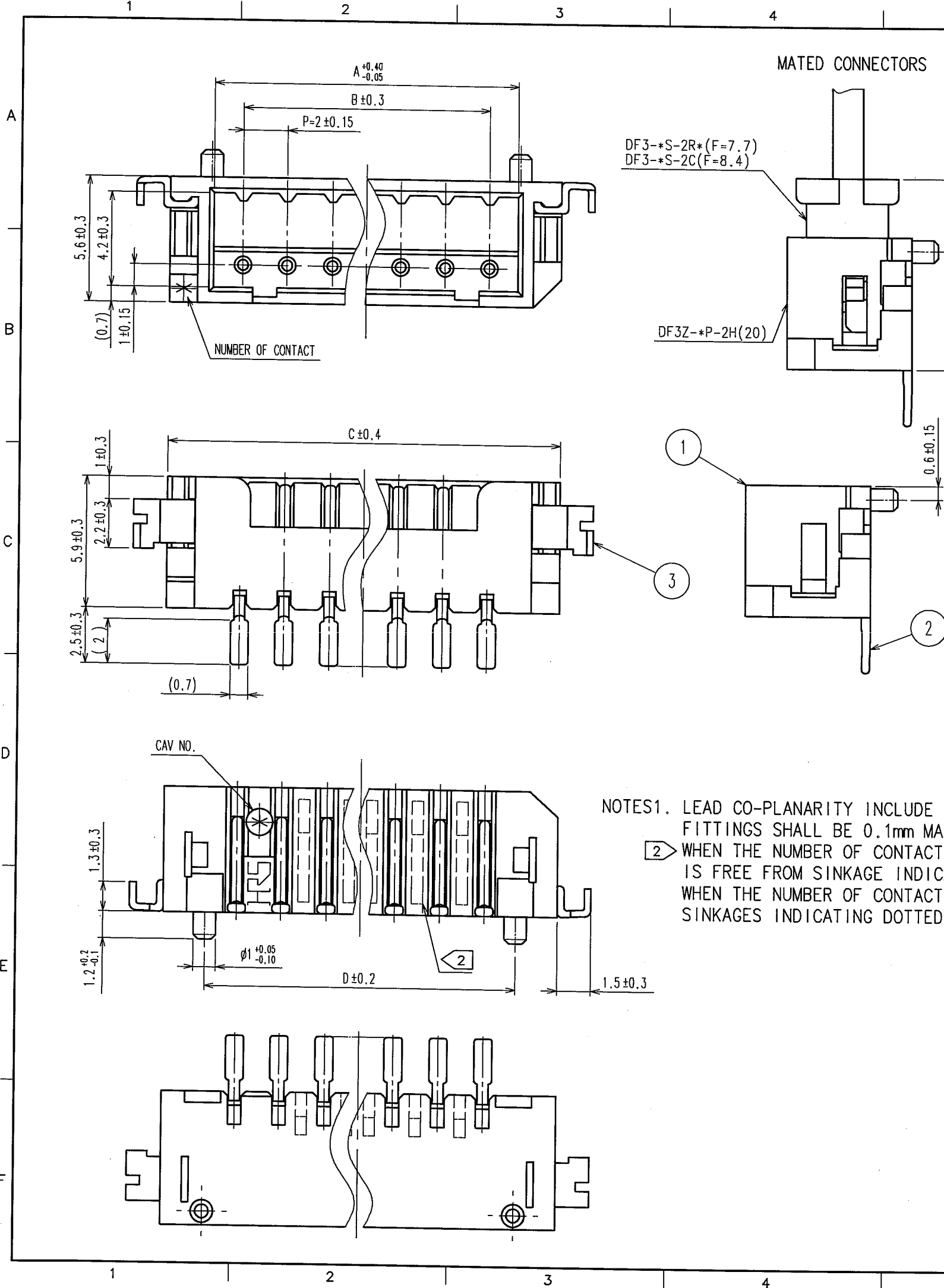


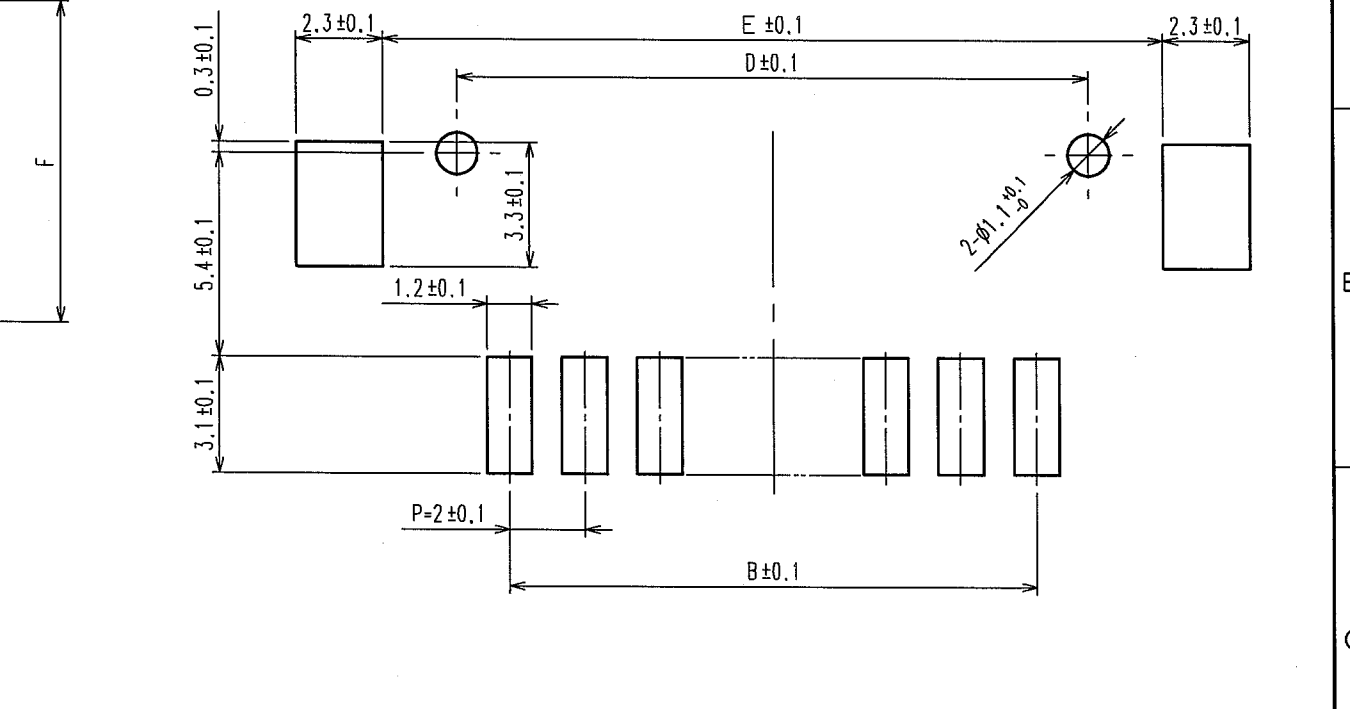
2007/09/12 05:44:33 ctribble

DRAWING FOR REFERENCE: This is subject to change without notice



| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|-----|------|----------|-------|--------------------------|----|------|------|
| 2 | RE-H-06617 | I.D | T.M | 04.11.27 | | | | | |

RECOMMENDED PATTERN



| PART NO. | CODE NO. | A | B | C | D | E |
|-----------------|---------------|------|------|------|------|-------|
| DF3Z- 2P-2H(20) | 543-1042-5-20 | 4.6 | 2.0 | 8.5 | 4.8 | 8.74 |
| DF3Z- 3P-2H(20) | 543-1043-8-20 | 6.6 | 4.0 | 10.5 | 6.8 | 10.74 |
| DF3Z- 4P-2H(20) | 543-1044-0-20 | 8.6 | 6.0 | 12.5 | 8.8 | 12.74 |
| DF3Z- 5P-2H(20) | 543-1045-3-20 | 10.6 | 8.0 | 14.5 | 10.8 | 14.74 |
| DF3Z- 6P-2H(20) | 543-1046-6-20 | 12.6 | 10.0 | 16.5 | 12.8 | 16.74 |
| DF3Z- 7P-2H(20) | 543-1047-9-20 | 14.6 | 12.0 | 18.5 | 14.8 | 18.74 |
| DF3Z- 8P-2H(20) | 543-1048-1-20 | 16.6 | 14.0 | 20.5 | 16.8 | 20.74 |
| DF3Z- 9P-2H(20) | 543-1049-4-20 | 18.6 | 16.0 | 22.5 | 18.8 | 22.74 |
| DF3Z-10P-2H(20) | 543-1050-3-20 | 20.6 | 18.0 | 24.5 | 20.8 | 24.74 |
| DF3Z-11P-2H(20) | 543-1051-6-20 | 22.6 | 20.0 | 26.5 | 22.8 | 26.74 |
| DF3Z-12P-2H(20) | 543-1052-9-20 | 24.6 | 22.0 | 28.5 | 24.8 | 28.74 |
| DF3Z-13P-2H(20) | 543-1053-1-20 | 26.6 | 24.0 | 30.5 | 26.8 | 30.74 |
| DF3Z-14P-2H(20) | 543-1054-4-20 | 28.6 | 26.0 | 32.5 | 28.8 | 32.74 |
| DF3Z-15P-2H(20) | 543-1055-7-20 | 30.6 | 28.0 | 34.5 | 30.8 | 34.74 |

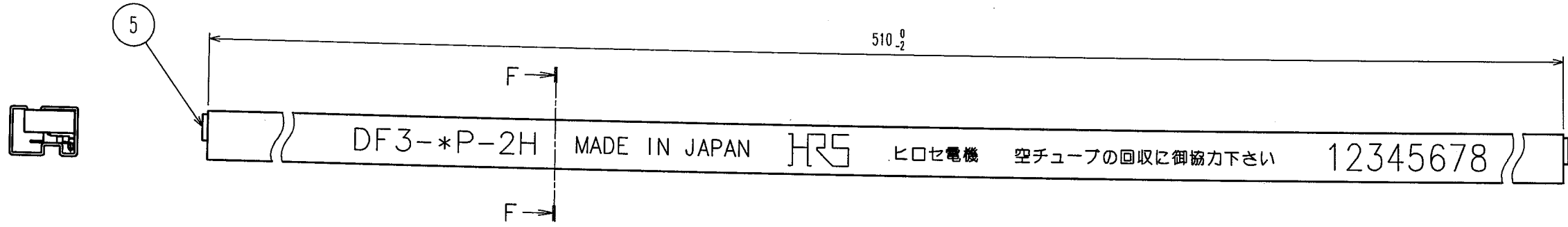
| | | | | | | | |
|----------------|------------------------------|--|-------------------------|-------------------------|--|-----------|----------|
| 2 | BRASS | SURFACE: TIN PLATED $1\mu\text{m min}$ (UNDER PLATING) COPPER PLATED $0.5\mu\text{m min}$ | 5 | S.PVC | STOPPER, GRAY | | |
| 1 | POLYAMIDE | BEIGE (NATURAL), UL94-0 | 4 | RIGID POLYVINYLCHLORIDE | ELECTROSTATIC PROTECTION, CLEAR | | |
| | | | 3 | BRASS | SURFACE: TIN PLATED $1\mu\text{m min}$ (UNDER PLATING) NICKEL PLATED $1\mu\text{m min}$ | | |
| NO. | MATERIAL | FINISH, REMARKS | NO. | MATERIAL | FINISH, REMARKS | | |
| CODE NO. (OLD) | CL | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | | | M.Nakamoto | H.Umehara | T.Miyazaki | T.Oma | |
| | | | '04.03.25 | '04.03.25 | '04.03.25 | '04.03.25 | |
| SCALE | DRAWING NO. EDC3-305940-10 | | PART NO. DF3Z-*P-2H(20) | | | | |
| 5 : 1 | HRS HIROSE ELECTRIC CO., LTD | | CODE NO. CL543- | | | | |
| UNITS | mm | | 1/2 | | | | |



2007/09/12 05:44:33 ctribble

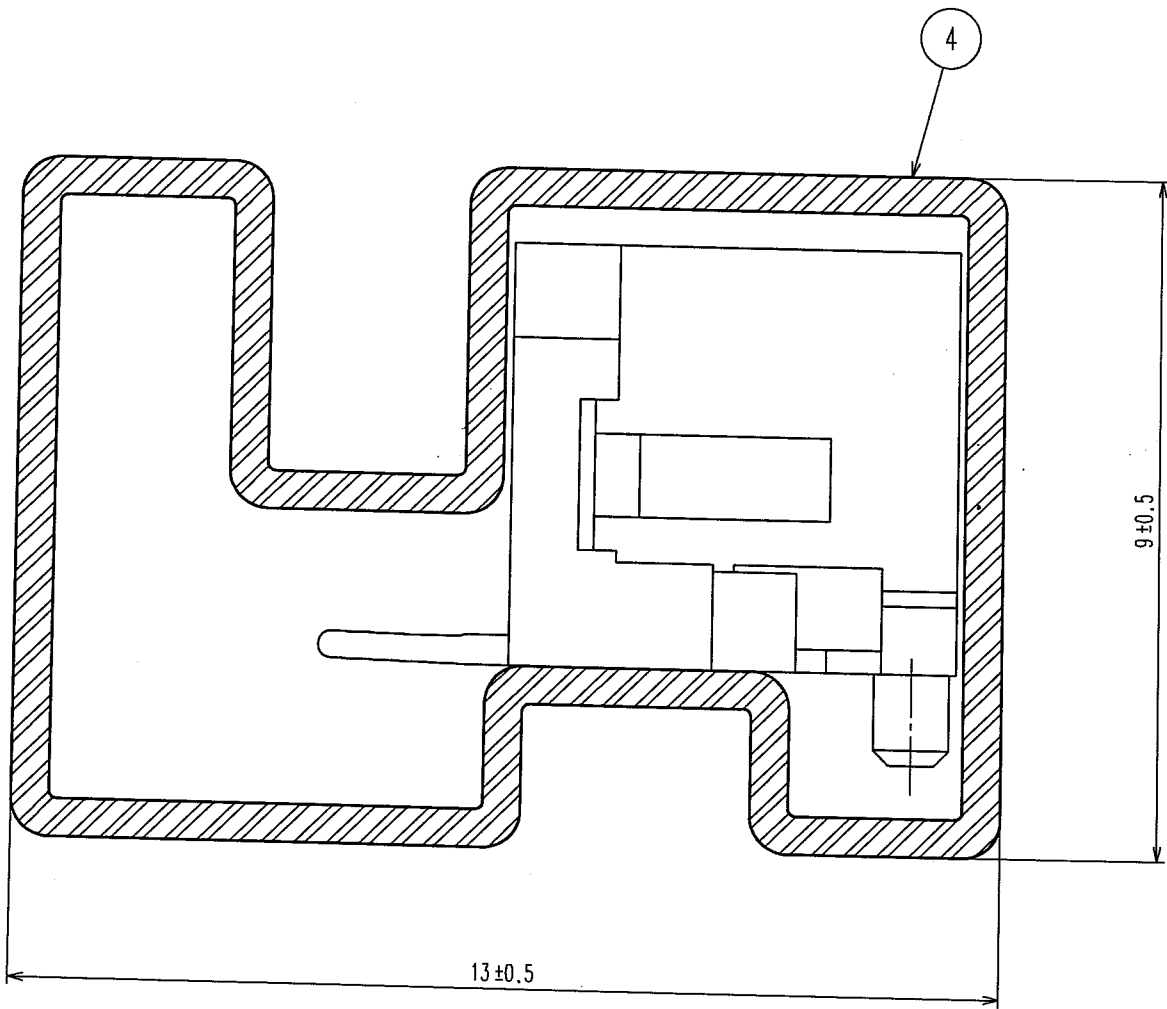
DRAWING FOR REFERENCE: This is subject to change without notice

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



NOTES
 3. NUMBER OF CONNECTERS PER A MAGAZINE CASE SHALL BE IN ACCORDANCE WITH THE LIST.
 4. THESE CONNECTERS SHALL BE ON SALED IN ACCORDANCE WITH THE MULTIPLE QUANTITY ON THE LIST.

F-F (10:1)



| CODE NO. | PART NO. | NUMBER OF CONNECTORS |
|---------------|-----------------|----------------------|
| 543-1042-5-20 | DF3Z- 2P-2H(20) | 41 |
| 543-1043-8-20 | DF3Z- 3P-2H(20) | 34 |
| 543-1044-0-20 | DF3Z- 4P-2H(20) | 30 |
| 543-1045-3-20 | DF3Z- 5P-2H(20) | 26 |
| 543-1046-6-20 | DF3Z- 6P-2H(20) | 23 |
| 543-1047-9-20 | DF3Z- 7P-2H(20) | 21 |
| 543-1048-1-20 | DF3Z- 8P-2H(20) | 19 |
| 543-1049-4-20 | DF3Z- 9P-2H(20) | 18 |
| 543-1050-3-20 | DF3Z-10P-2H(20) | 17 |
| 543-1051-6-20 | DF3Z-11P-2H(20) | 15 |
| 543-1052-9-20 | DF3Z-12P-2H(20) | 14 |
| 543-1053-1-20 | DF3Z-13P-2H(20) | 14 |
| 543-1054-4-20 | DF3Z-14P-2H(20) | 13 |
| 543-1055-7-20 | DF3Z-15P-2H(20) | 12 |

| NO. | MATERIAL | FINISH, REMARKS | NO. | MATERIAL | FINISH, REMARKS | | |
|-------------------------------|----------|-----------------|------------------------------|-----------|-----------------|-----------|----------|
| CODE NO. (OLD) | CL | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| | | | M.Nakamoto | H.Umehara | T.Miyazaki | T.Oma | |
| | | | '04.03.25 | '04.03.25 | '04.03.25 | '04.03.25 | |
| DRAWING NO. EDC3-305940-10 | | | PART NO. DF3Z-*P-2V(20) | | | | |
| SCALE FR:EE | | | CODE NO. CL543- | | | | |
| UNITS mm | | | HRS HIROSE ELECTRIC CO., LTD | | | | |

2007/09/12 05:45:40 ctribble

DRAWING FOR REFERENCE: This is subject to change without notice

TO

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | | |
|---|-----------------------------|---|-------------------------------|------|---|--------------------------|-------------|----------------------------|----------|--|---|
| △ | | | | | △ | | | | | | |
| △ | | | | | △ | | | | | | |
| 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 | 3A | | | | | |
| 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 (DC OR 1000 Hz). | | | 30 mΩ MAX. | | | × | — | | |
| INSULATION RESISTANCE | | 500V DC. | | | 1000 MΩ MIN. | | | × | — | | |
| VOLTAGE PROOF | | 650 V AC FOR 1 min. | | | NO FLASHOVER OR BREAKDOWN. | | | × | — | | |
| MECHANICAL CHARACTERISTICS | | | | | | | | | | | |
| MECHANICAL OPERATION | | 30 TIMES INSERTIONS AND EXTRACTIONS. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | × | — | | |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75mm AT 2 h, FOR 3 DIRECTIONS. | | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | × | — | | |
| SHOCK | | 490 m/s ² DIRECTIONS OF PULSE 11 ms AT 3 TIME FOR 3 DIRECTION. | | | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | × | — | | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | | | | | | |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35 °C TIME 30→10 TO 15→30→10 TO 15min UNDER 5 CYCLES. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 1000MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | × | — | | |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, 90 TO 95 %, 96 h. | | | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | | | × | — | | |
| RESISTANCE TO SOLDERING HEAT | | 1) AUTOMATIC SOLDERING (REFLOW) (REFLOW AREA) MAX 240°C WITHIN 10 sec. MIN 220°C 10 sec to 30 sec. (PREHEATING AREA) 150°C 100 sec. To 120 sec. PUT THROUGH IN REFLOW FUMACE TWICE. LEAVE IN AMBIENT TEMPERATURE AND HUMIDITY FOR 1 HOUR. CONNECTOR TEMPERATURE TO BE AMBIENT FOR SECOND REFLOW. 2) MANUAL SOLDERING SOLDERING IRON TEMPERATURE : 290±10°C, SOLDERING TIME : 3 sec. NO STRENGTH ON CONTACT. | | | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | | | × | | | — |
| SOLDERABILITY | | SOLDERING TEMPERATURE : 230°C SOLDERING TIME : 3 sec. | | | A NEW UNIFORM COATING OF SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | | | × | — | | |
| REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | | | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED | | |
| | | | | | M.Nakamoto | H. Umehara | T. Miyajuki | T. Ona | | | |
| Unless otherwise specified, refer to JIS C 5402. | | | | | '04.03.25 | 04.03.25 | 04.03.25 | 04.03.25 | | | |
| Note QT: Qualification Test AT: Assurance Test ×: Applicable Test | | | | | | | | | | | |
| HRS HIROSE ELECTRIC CO., LTD. | | | | | SPECIFICATION SHEET | | | PART NO. DF3Z-*P-2H(20) | | | |
| CODE NO.(OLD) CL | | | DRAWING NO. ELC4-305940-10 | | | PEART NO CL543- | | | 1/1 | | |

