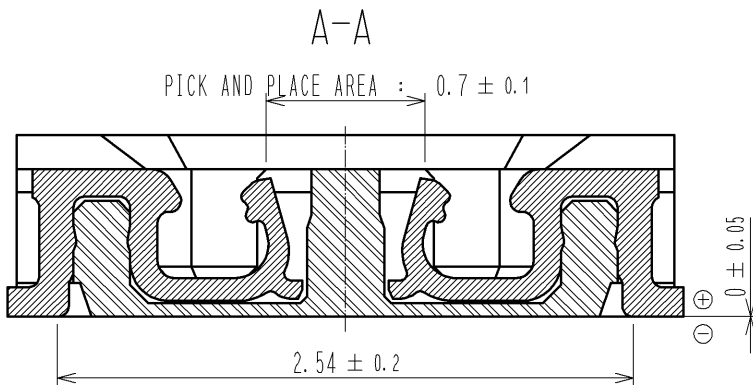
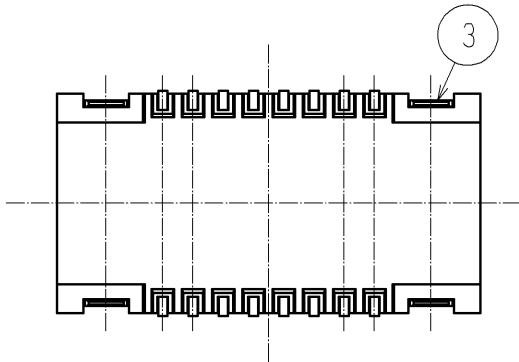
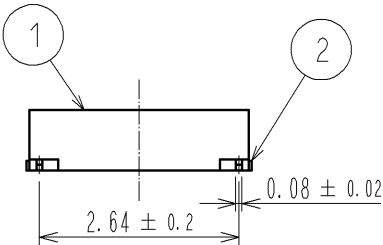
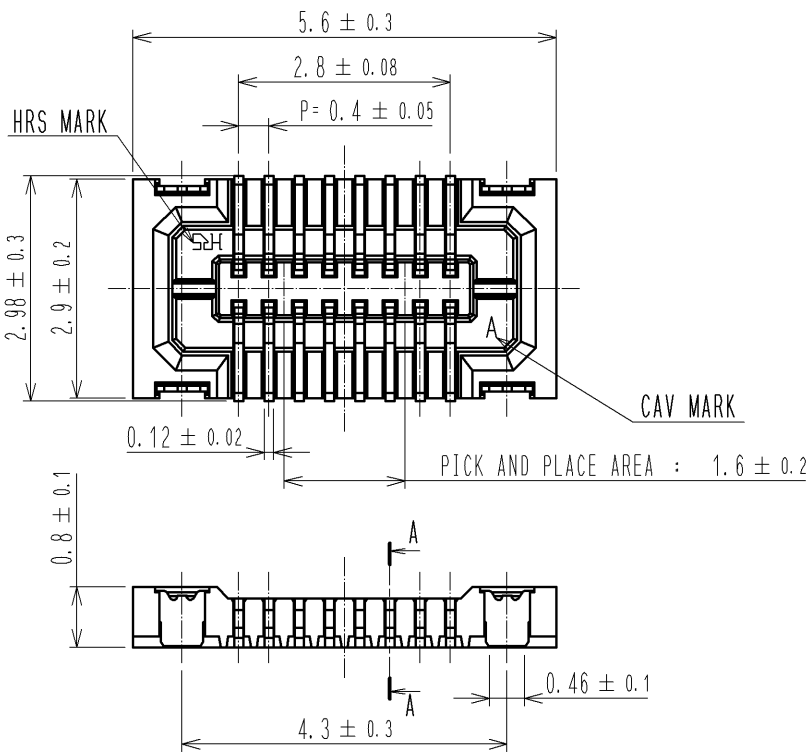
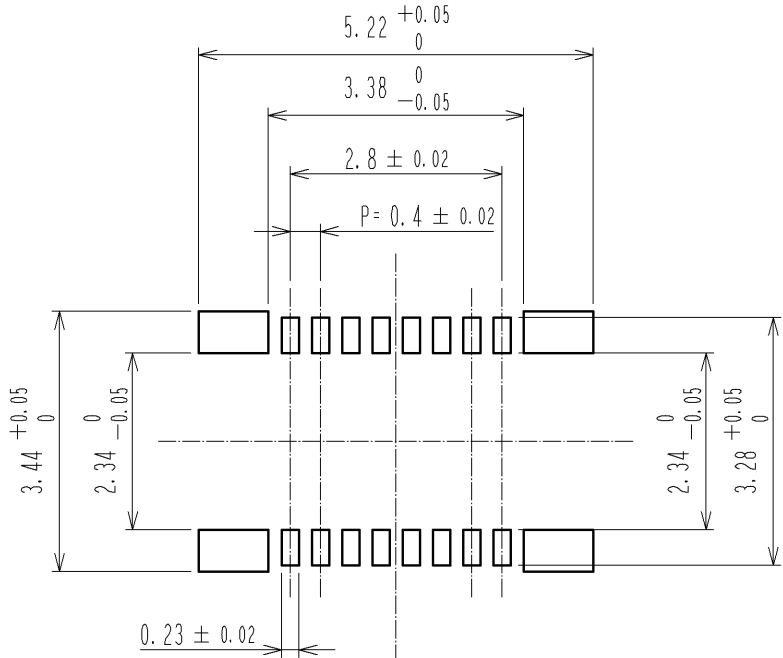


| APPLICABLE STANDARD                                               |                                                                                                                 |                          |                                                                                                                     |                              |                |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|
| RATING                                                            | OPERATING TEMPERATURE RANGE                                                                                     | -35°C TO 85°C (NOTES 1)  | STORAGE TEMPERATURE RANGE                                                                                           | -10°C TO 60°C                |                |
|                                                                   | VOLTAGE                                                                                                         | 30V AC                   | APPLICABLE CONNECTOR                                                                                                | BM10*(0.8)-16DP-0.4V(**)     |                |
|                                                                   | CURRENT                                                                                                         | 0.3A                     |                                                                                                                     |                              |                |
| SPECIFICATIONS                                                    |                                                                                                                 |                          |                                                                                                                     |                              |                |
| ITEM                                                              | TEST METHOD                                                                                                     |                          | REQUIREMENTS                                                                                                        | QT                           | AT             |
| CONSTRUCTION                                                      |                                                                                                                 |                          |                                                                                                                     |                              |                |
| GENERAL EXAMINATION                                               | CONFIRMED VISUALLY AND BY MEASURING INSTRUMENT.                                                                 |                          | ACCORDING TO DRAWING.                                                                                               | X                            | X              |
| MARKING                                                           | CONFIRMED VISUALLY.                                                                                             |                          |                                                                                                                     | X                            | X              |
| ELECTRIC CHARACTERISTICS                                          |                                                                                                                 |                          |                                                                                                                     |                              |                |
| CONTACT RESISTANCE                                                | 20mV AC OR LESS 1kHz, 1mA.                                                                                      |                          | 100mΩ MAX.                                                                                                          | X                            | —              |
| INSULATION RESISTANCE                                             | 100V DC.                                                                                                        |                          | 50MΩ MIN.                                                                                                           | X                            | —              |
| VOLTAGE PROOF                                                     | 100V AC FOR 1 min.                                                                                              |                          | NO FLASHOVER OR BREAKDOWN.                                                                                          | X                            | —              |
| MECHANICAL CHARACTERISTICS                                        |                                                                                                                 |                          |                                                                                                                     |                              |                |
| INSERTION AND WITHDRAWAL FORCES                                   | MEASURED BY APPLICABLE CONNECTOR.                                                                               |                          | ① INSERTION FORCE : 20.7 (N) MAX<br>② WITHDRAWAL FORCE : 3.6 (N) MIN                                                | X                            | —              |
| MECHANICAL OPERATION                                              | 10 TIMES INSERTIONS AND WITHDRAWALS.                                                                            |                          | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                            | —              |
| VIBRATION                                                         | FREQUENCY 10 TO 55 TO 10 Hz, APPROX 5min, SINGLE AMPLITUDE 0.75 mm, 10 CYCLES, FOR 3 DIRECTIONS.                |                          | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                 | X                            | —              |
| SHOCK                                                             | 490 m/s <sup>2</sup> DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.                                       |                          | ① NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                 | X                            | —              |
| ENVIRONMENTAL CHARACTERISTICS                                     |                                                                                                                 |                          |                                                                                                                     |                              |                |
| RAPID CHANGE OF TEMPERATURE                                       | TEMPERATURE -55 → 85 °C<br>TIME 30 → 30 min<br>UNDER 5 CYCLES.<br>(RELOCATION TIME TO CHAMBER: WITHIN 2 ~3 MIN) |                          | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② INSULATION RESISTANCE: 50MΩ MIN.<br>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: 100mΩ MAX.<br>② INSULATION RESISTANCE: 25MΩ MIN.<br>③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X                            | —              |
| SULPHUR DIOXIDE                                                   | EXPOSED IN 25 PPM FOR 96h, 25°C, 75%.<br>(REFER TO JIS C 60068)                                                 |                          | ① CONTACT RESISTANCE: 100mΩ MAX.<br>② NO DAMAGE, CRACK OR LOOSENESS OF PARTS.                                       | X                            | —              |
|                                                                   |                                                                                                                 |                          |                                                                                                                     |                              |                |
|                                                                   | COUNT                                                                                                           | DESCRIPTION OF REVISIONS | DESIGNED                                                                                                            | CHECKED                      | DATE           |
| △                                                                 |                                                                                                                 |                          |                                                                                                                     |                              |                |
| REMARKS                                                           |                                                                                                                 |                          | APPROVED                                                                                                            | KH. IKEDA                    | 09.09.03       |
| NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT                  |                                                                                                                 |                          | CHECKED                                                                                                             | TS. MIYAZAKI                 | 09.09.03       |
| Unless otherwise specified, refer to JIS C 5402 and IEC 60512     |                                                                                                                 |                          | DESIGNED                                                                                                            | SH. HOSODA                   | 09.09.02       |
|                                                                   |                                                                                                                 |                          | DRAWN                                                                                                               | SH. HOSODA                   | 09.05.09       |
| Note QT: Qualification Test AT: Assurance Test X: Applicable Test |                                                                                                                 |                          | DRAWING NO.                                                                                                         |                              | ELC4-319211-75 |
| <b>HRS</b>                                                        | SPECIFICATION SHEET                                                                                             |                          | PART NO.                                                                                                            | BM10NB (0.8) -16DS-0.4V (75) |                |
|                                                                   | HIROSE ELECTRIC CO., LTD.                                                                                       |                          | CODE NO.                                                                                                            | CL684-6110-4-75              | △ 1/1          |

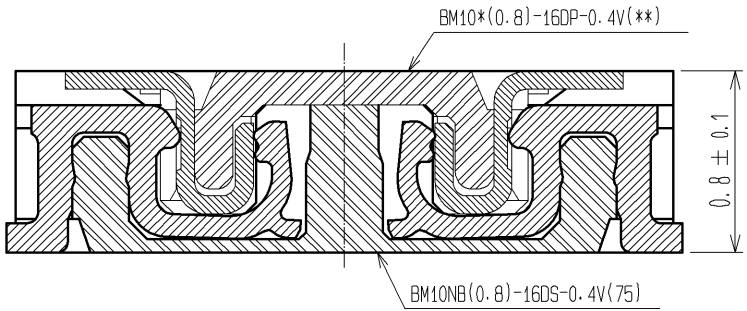


RECOMMENDED PATTERN

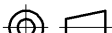


RECOMMENDED SOLDER PASTE : THICKNESS 120μm

ENGAGEMENT FIGURE



- NOTE 1. ALL LEADS CO-PLANARITY SHALL BE 0.1 MAX.  
2. PER REEL : 8000 CONNECTORS.  
3. AT THE BEGINNING OF THE REEL, 100 mm AT MIN SHALL BE EMPTY POCKETS.  
AT THE END OF THE REEL, 160 mm AT MIN SHALL BE EMPTY.  
4. CONTACT PLATING SPECIFICATIONS.  
CONTACT AREA : GOLD 0.1μm MIN.  
SMT LEAD : GOLD 0.05μm MIN.  
UNDERPLATING : NICKEL 1μm MIN.  
(SURFACE : SEALING)  
5. METAL HOLD DOWN PLATING SPECIFICATIONS.  
MOUNTING AREA: GOLD 0.05μm MIN.  
UNDERPLATING : NICKEL 1μm MIN.  
6. PEEL FORCE OF COVER TAPE REFERS TO JIS C 0806.

|                                                                                                                                   |                                                                                       |                       |                    |                          |                                       |                  |         |      |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------|--------------------|--------------------------|---------------------------------------|------------------|---------|------|
| 3                                                                                                                                 | PHOSPHOR BRONZE                                                                       | <div>5</div>          | 6                  | PS                       | PLASTIC REEL (BLACK)                  |                  |         |      |
| 2                                                                                                                                 | PHOSPHOR BRONZE                                                                       | <div>4</div>          | 5                  | POLYESTER                | CLEAR (COVER TAPE)                    |                  |         |      |
| 1                                                                                                                                 | LCP                                                                                   | UL94V-0. BLACK        | 4                  | PS                       | CLEAR (EMBOSSED CARRIER TAPE)         |                  |         |      |
| NO.                                                                                                                               | MATERIAL                                                                              | FINISH . REMARKS      |                    | NO.                      | MATERIAL                              | FINISH . REMARKS |         |      |
| UNITS<br>mm                                                                                                                       |  | SCALE<br>FREE         | <div>△</div> COUNT | DESCRIPTION OF REVISIONS |                                       | DESIGNED         | CHECKED | DATE |
| <div>HIROSE<br/>ELECTRIC<br/>CO., LTD.</div> |                                                                                       | APPROVED : KH. IKEDA  |                    | 09.09.03                 | DRAWING NO. EDC3-319211-75            |                  |         |      |
|                                                                                                                                   |                                                                                       | CHECED : TS. MIYAZAKI |                    | 09.09.03                 | PART NO. BM10NB(0.8)-16DS-0.4V(75)    |                  |         |      |
|                                                                                                                                   |                                                                                       | DESIGNED : SH. HOSODA |                    | 09.08.31                 | CODE NO. CL684-6110-4-75              |                  |         |      |
|                                                                                                                                   |                                                                                       | DRAWN : SH. HOSODA    |                    | 09.05.09                 | <div><div>△</div><div>1/2</div></div> |                  |         |      |

