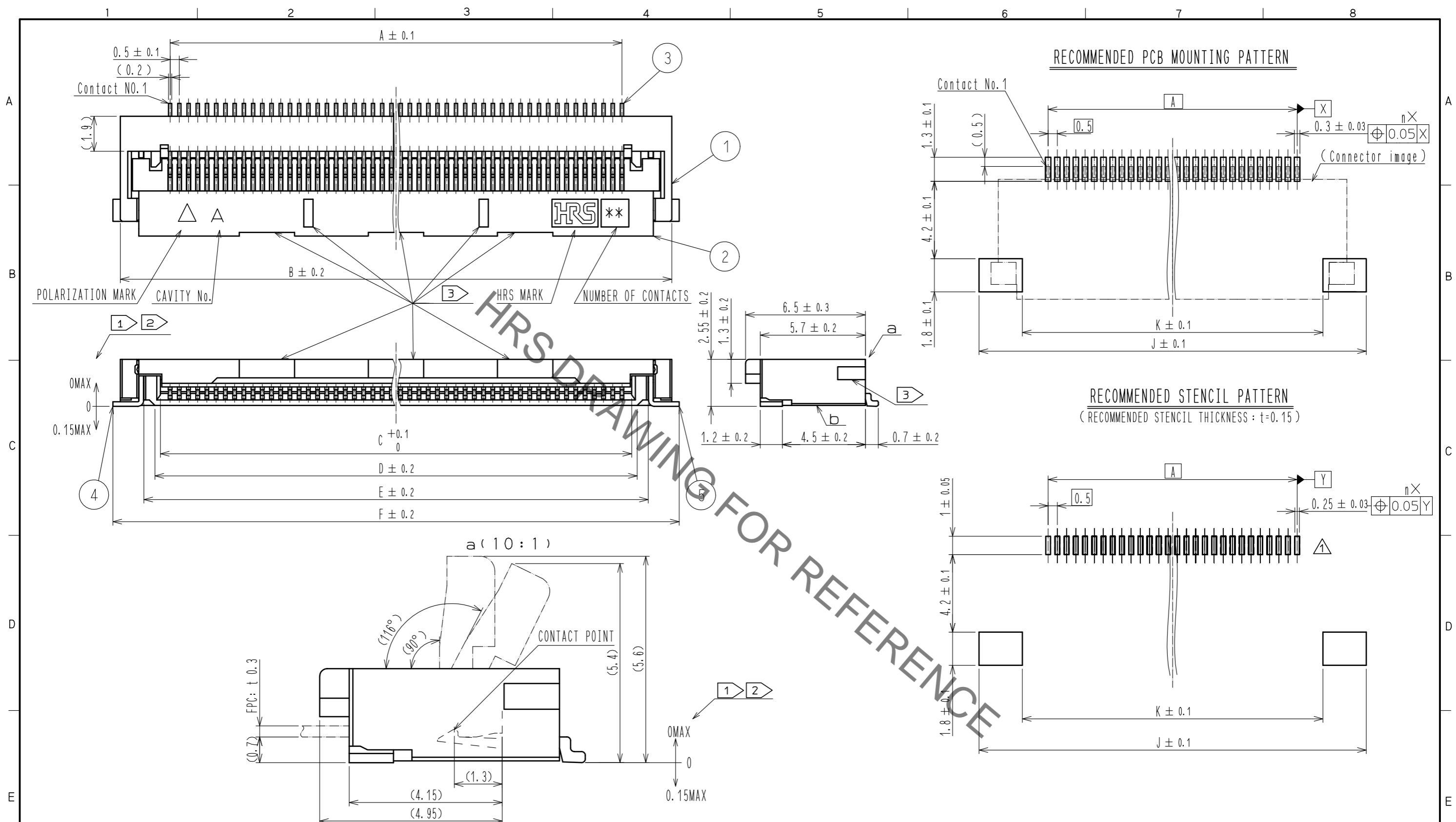


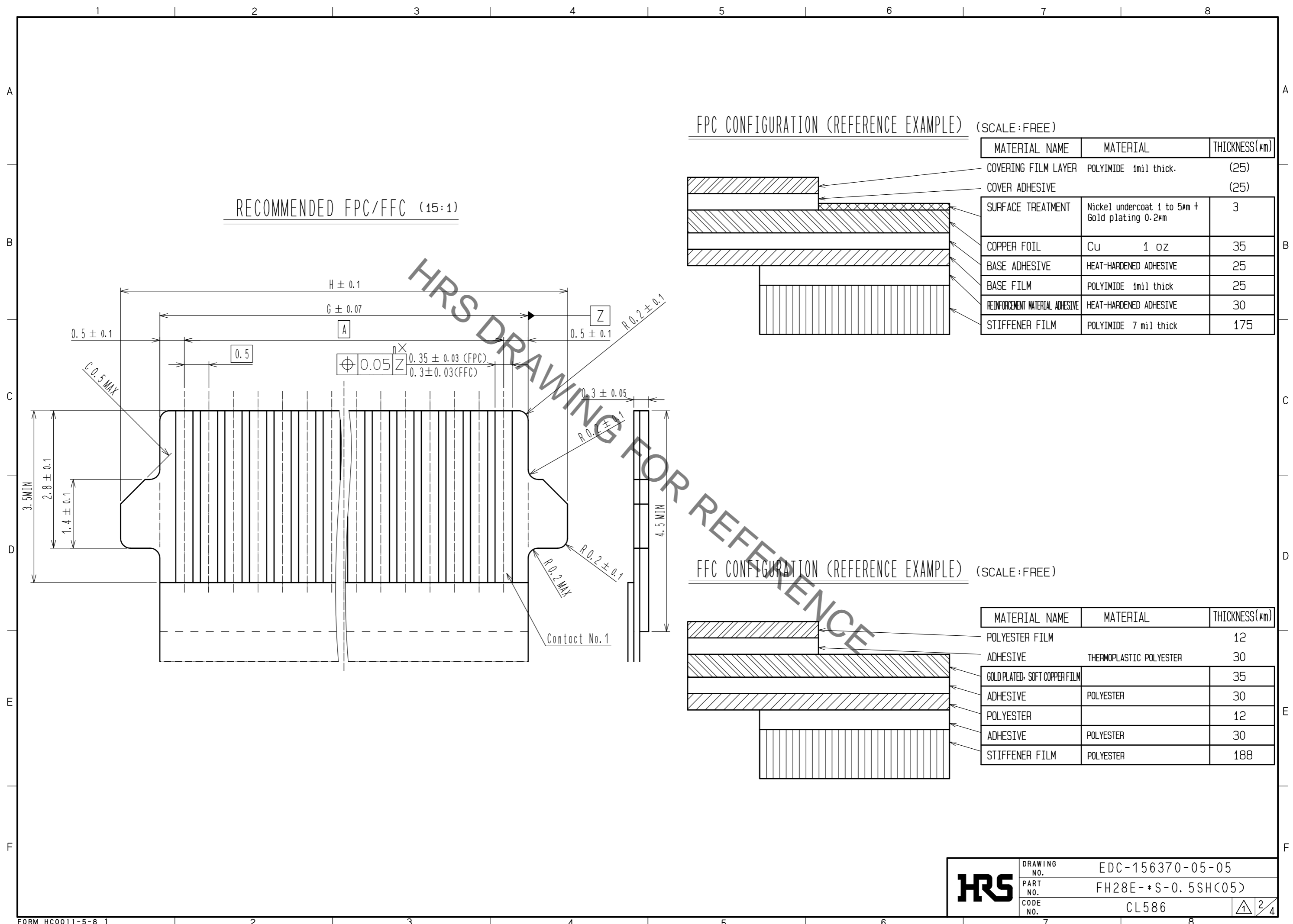
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- NOTES
- 1 Lead CO-PLANARITY including reinforced metal fittings shall be 0.1 MAX.
  - 2 Dimension: from reference b.
  - 3 Indicates notches or holes to prevent sink marks. The design and the location are discretionary, depending on the number of contacts.
  4. This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.
  5. 'n' represents the number of contacts.
  6. The dimensions in parentheses are for reference.

| 5                                | BRASS           | TIN PLATING 1#MMIN OVER NICKEL 1#MMIN     |                              |             |                  |
|----------------------------------|-----------------|-------------------------------------------|------------------------------|-------------|------------------|
| 4                                | BRASS           | TIN PLATING 1#MMIN OVER NICKEL 1#MMIN     | 9                            | (CONNECTOR) |                  |
| 3                                | PHOSPHOR BRONZE | GOLD PLATING 0.05#MMIN OVER NICKEL 1#MMIN | 8                            | POLYSTYRENE |                  |
| 2                                | LCP             | (BLACK) UL94V-0                           | 7                            | POLYESTER   |                  |
| 1                                | LCP             | (GRAY) UL94V-0                            | 6                            | POLYSTYRENE |                  |
| NO.                              | MATERIAL        | FINISH . REMARKS                          | NO.                          | MATERIAL    | FINISH . REMARKS |
| UNITS                            | mm              | SCALE                                     | 5 : 1                        | COUNT       | 2                |
| DESCRIPTION OF REVISIONS         |                 |                                           | DESIGNED                     | CHECKED     | DATE             |
| DIS-F-00003611                   |                 |                                           | OTNIEL RINALDO               | FN. TAMURA  | 18.07.27         |
| APPROVED : NF. MIYAZAKI 15.10.17 |                 |                                           | DRAWING NO. EDC-156370-05-05 |             |                  |
| CHECKED : HS. SAKAMOTO 15.10.17  |                 |                                           | PART NO. FH28E-*S-0.5SH(C05) |             |                  |
| DESIGNED : RT. IKEDA 15.10.17    |                 |                                           | CODE NO. CL586               |             |                  |
| DRAWN : RN. IIDA 15.10.15        |                 |                                           |                              |             |                  |

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RECOMMENDED FPC/FFC (15:1)

FPC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)

FFC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)

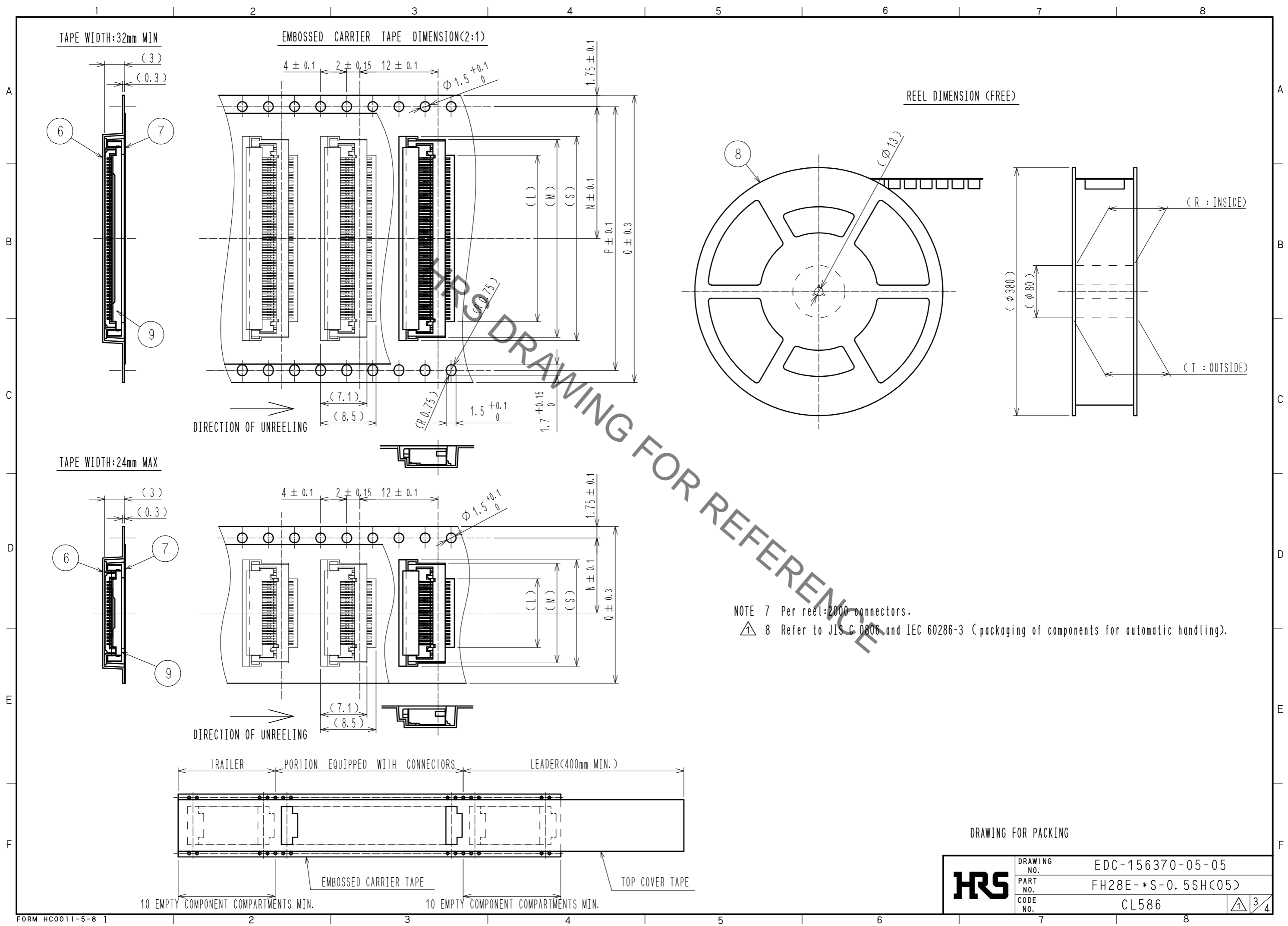
| MATERIAL NAME                   | MATERIAL                                       | THICKNESS(μm) |
|---------------------------------|------------------------------------------------|---------------|
| COVERING FILM LAYER             | POLYIMIDE 1mil thick.                          | (25)          |
| COVER ADHESIVE                  |                                                | (25)          |
| SURFACE TREATMENT               | Nickel undercoat 1 to 5μm + Gold plating 0.2μm | 3             |
| COPPER FOIL                     | Cu 1 oz                                        | 35            |
| BASE ADHESIVE                   | HEAT-HARDENED ADHESIVE                         | 25            |
| BASE FILM                       | POLYIMIDE 1mil thick                           | 25            |
| REINFORCEMENT MATERIAL ADHESIVE | HEAT-HARDENED ADHESIVE                         | 30            |
| STIFFENER FILM                  | POLYIMIDE 7 mil thick                          | 175           |

| MATERIAL NAME                 | MATERIAL                | THICKNESS(μm) |
|-------------------------------|-------------------------|---------------|
| POLYESTER FILM                |                         | 12            |
| ADHESIVE                      | THERMOPLASTIC POLYESTER | 30            |
| GOLD PLATED- SOFT COPPER FILM |                         | 35            |
| ADHESIVE                      | POLYESTER               | 30            |
| POLYESTER                     |                         | 12            |
| ADHESIVE                      | POLYESTER               | 30            |
| STIFFENER FILM                | POLYESTER               | 188           |

|            |             |                    |
|------------|-------------|--------------------|
| <b>HRS</b> | DRAWING NO. | EDC-156370-05-05   |
|            | PART NO.    | FH28E-*S-0.5SH<05> |
|            | CODE NO.    | CL586              |

① 2/4

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NOTE 7 Per reel: 2000 connectors.  
 ⚠ 8 Refer to JIS C 0806 and IEC 60286-3 (packaging of components for automatic handling).

DRAWING FOR PACKING

|            |             |                                                                                                                                                     |   |
|------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---|
| <b>HRS</b> | DRAWING NO. | EDC-156370-05-05                                                                                                                                    |   |
|            | PART NO.    | FH28E-*S-0.5SH<05>                                                                                                                                  |   |
|            | CODE NO.    | CL586                                                                                                                                               |   |
|            |             | <table border="1" style="display: inline-table;"> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> </tr> </table> | 3 |
| 3          | 4           |                                                                                                                                                     |   |

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| PART No.              | CODE No.        | Number of contact | DIMENSION TABLE OF CONNECTOR, FPC, FFC, LAND PATTERN AND STENCIL PATTERN |      |       |       |       |      |      |      |      |    | DIMENSION TABLE OF DRAWING FOR PACKING |      |      |      |    |      |      |      |
|-----------------------|-----------------|-------------------|--------------------------------------------------------------------------|------|-------|-------|-------|------|------|------|------|----|----------------------------------------|------|------|------|----|------|------|------|
|                       |                 |                   | A                                                                        | B    | C     | D     | E     | F    | G    | H    | J    | K  | L                                      | M    | N    | P    | Q  | R    | T    | S    |
| FH28E-20S-0.5SH(05)   | CL580-1822-2-05 | 20                | 9.5                                                                      | 14.9 | 10.57 | 11.15 | 12.35 | 15.7 | 10.5 | 12.1 | 16.7 | 12 | 10.5                                   | 15.3 | 11.5 | -    | 24 | 25.4 | 29.4 | 16.3 |
| FH28E-30S-0.5SH(05)   | CL580-1833-9-05 | 30                | 14.5                                                                     | 19.9 | 15.57 | 16.15 | 17.35 | 20.7 | 15.5 | 17.1 | 21.7 | 17 | 15.5                                   | 20.3 | 14.2 | 28.4 | 32 | 33.4 | 37.4 | 21.3 |
| ⑨ FH28E-40S-0.5SH(07) | CL580-1814-4-07 | 40                | 19.5                                                                     | 24.9 | 20.57 | 21.15 | 22.35 | 25.7 | 20.5 | 22.1 | 26.7 | 22 | 20.5                                   | 25.3 | 20.2 | 40.4 | 44 | 45.4 | 49.4 | 26.3 |
| FH28E-50S-0.5SH(05)   | CL580-1815-7-05 | 50                | 24.5                                                                     | 29.9 | 25.57 | 26.15 | 27.35 | 30.7 | 25.5 | 27.1 | 31.7 | 27 | 25.5                                   | 30.3 | 20.2 | 40.4 | 44 | 45.4 | 49.4 | 31.3 |
| FH28E-60S-0.5SH(05)   | CL580-1834-1-05 | 60                | 29.5                                                                     | 34.9 | 30.57 | 31.15 | 32.35 | 35.7 | 30.5 | 32.1 | 36.7 | 32 | 30.5                                   | 35.3 | 26.2 | 52.4 | 56 | 57.4 | 61.4 | 36.3 |
| FH28E-68S-0.5SH(05)   | CL580-1841-7-05 | 68                | 33.5                                                                     | 38.9 | 34.57 | 35.15 | 36.35 | 39.7 | 34.5 | 36.1 | 40.7 | 36 | 34.5                                   | 39.3 | 26.2 | 52.4 | 56 | 57.4 | 61.4 | 40.3 |

⑨ : The specification of (07) is applied to FH28E-40S-0.5SH.

HRS DRAWING FOR REFERENCE

|            |             |                    |     |
|------------|-------------|--------------------|-----|
| <b>HRS</b> | DRAWING NO. | EDC-156370-05-05   |     |
|            | PART NO.    | FH28E-*S-0.5SH(05) |     |
|            | CODE NO.    | CL586              | ④/④ |

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