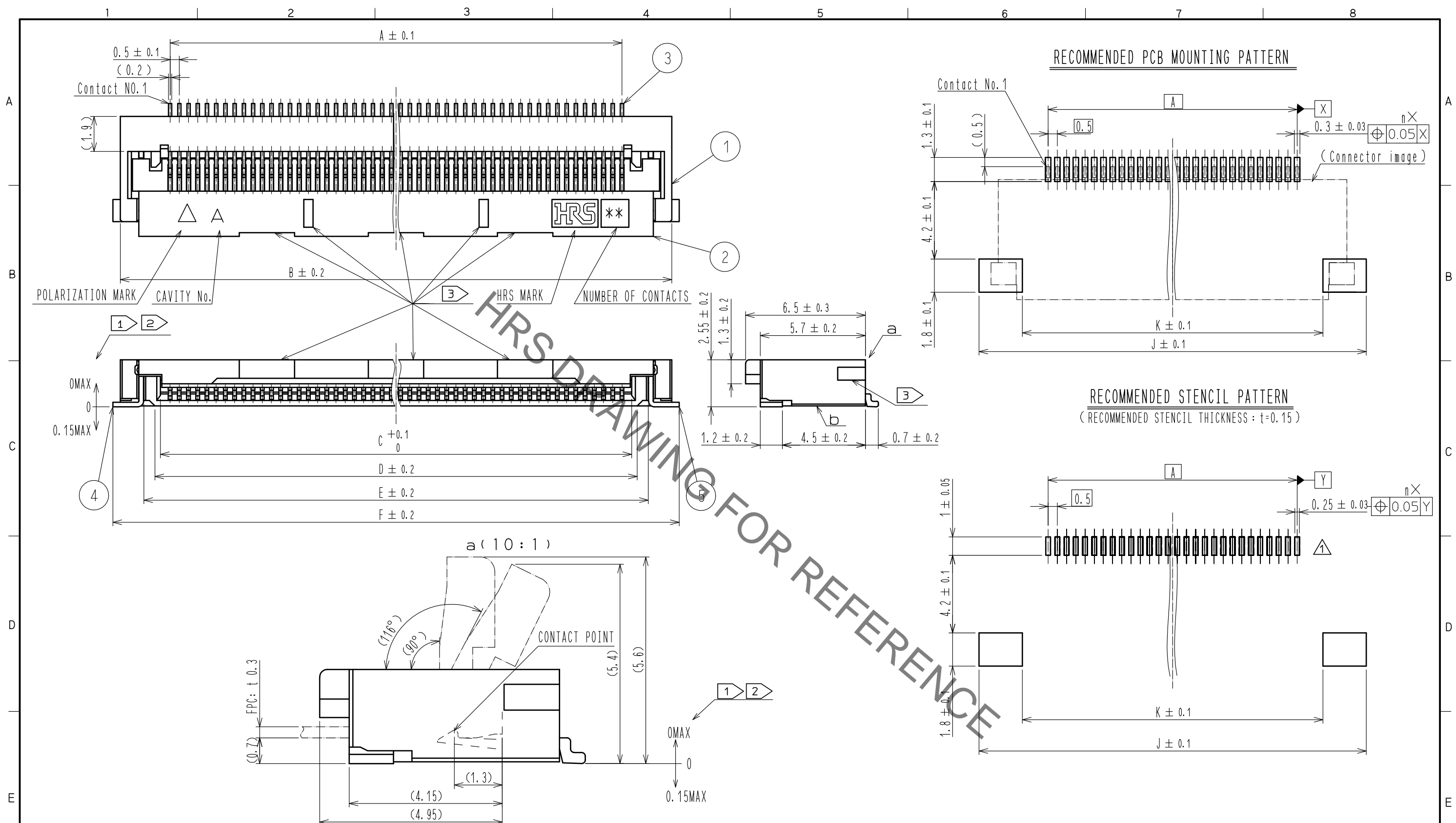


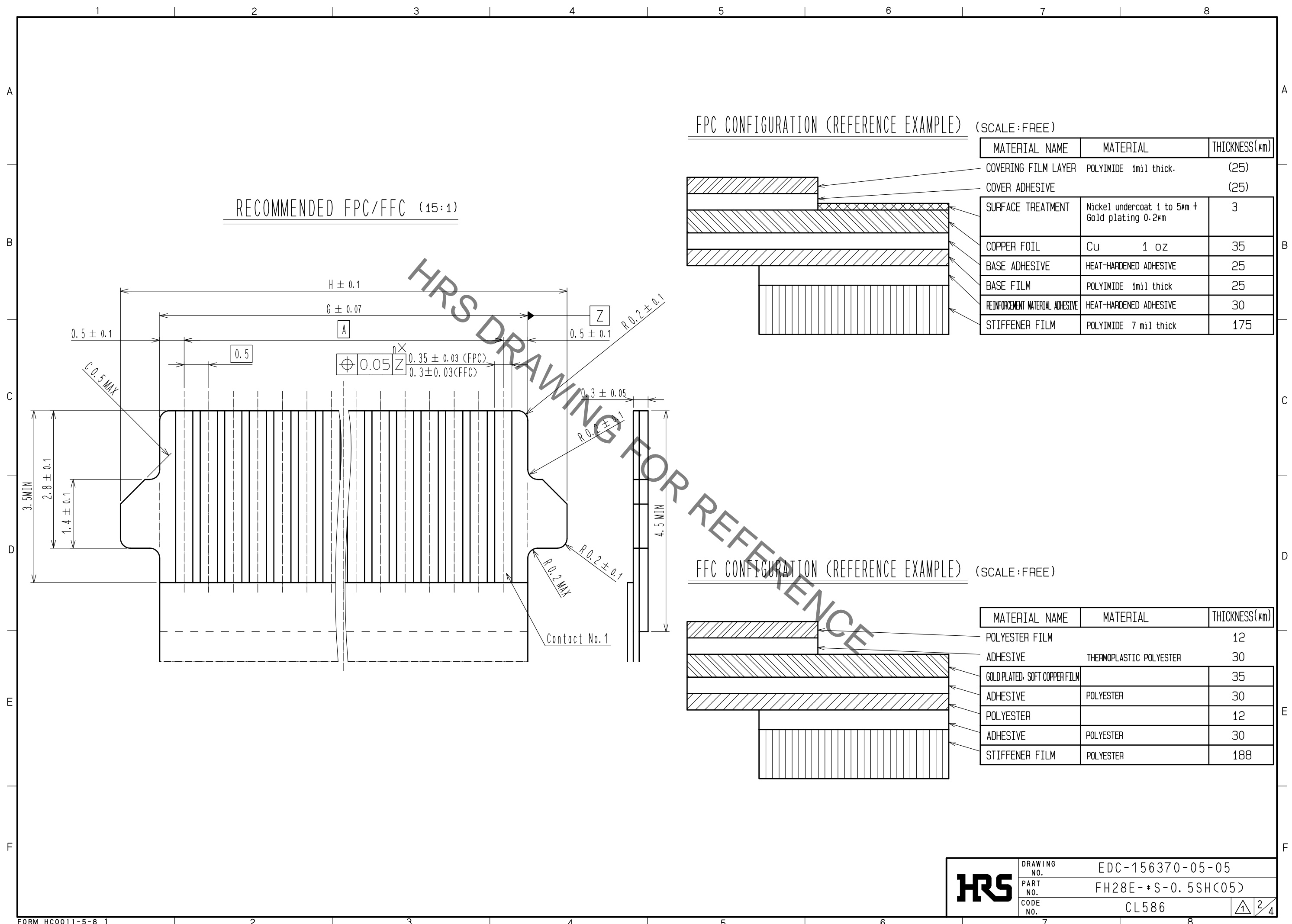
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- NOTES
- 1 Lead CO-PLANARITY including reinforced metal fittings shall be 0.1 MAX.
 - 2 Dimension: from reference b.
 - 3 Indicates notches or holes to prevent sink marks. The design and the location are discretionary, depending on the number of contacts.
 - 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)

| 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 |

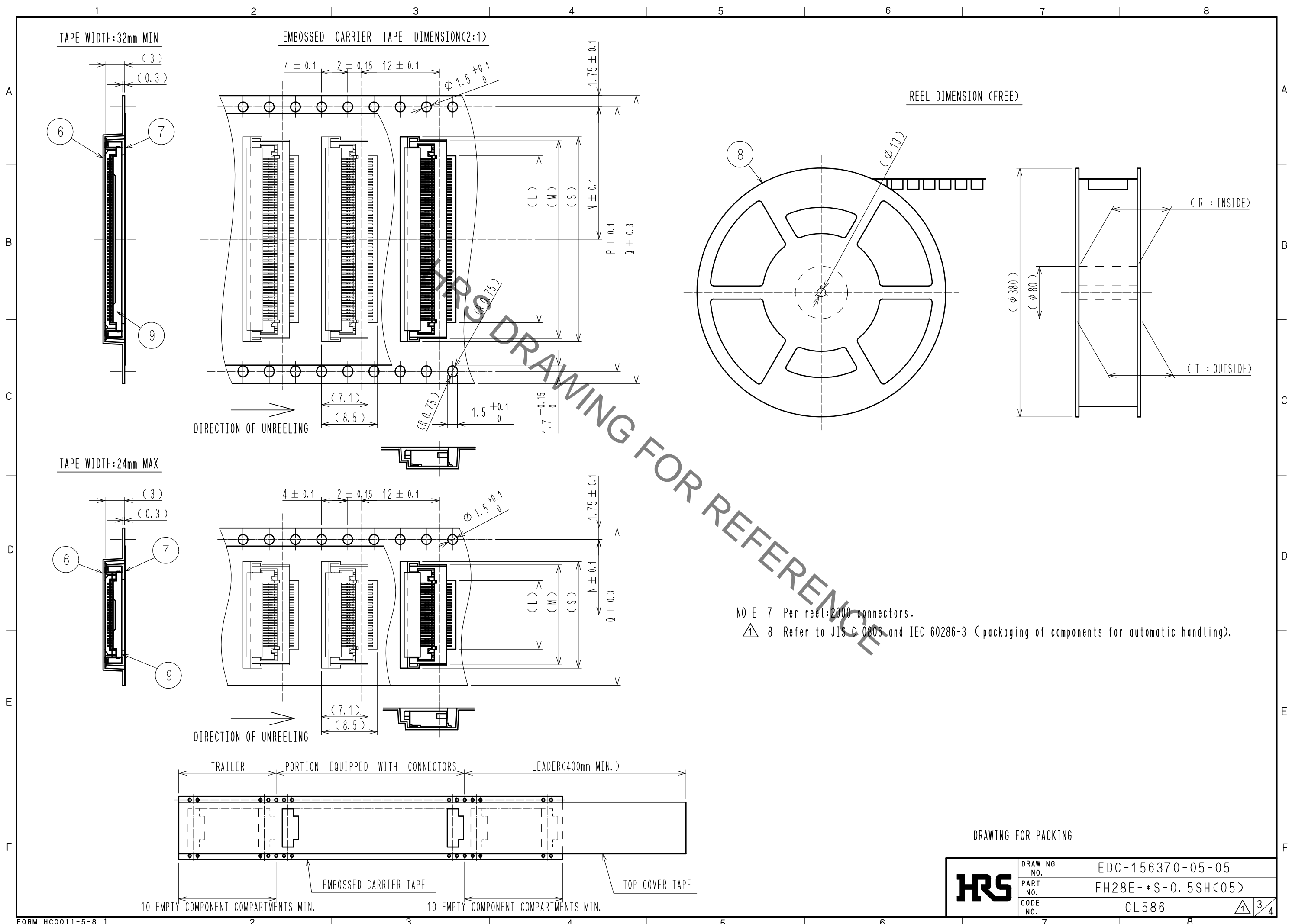
FFC CONFIGURATION (REFERENCE EXAMPLE) (SCALE:FREE)

| 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 |

| | | |
|------------|-------------|--------------------|
| HRS | 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

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

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