

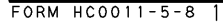
<34 CONTACT OR LESS>

|     |                 |                                         |  |     |             |                  |
|-----|-----------------|-----------------------------------------|--|-----|-------------|------------------|
| 4   | BRASS           | TIN PLATING 1μMIN OVER NICKEL 1μMIN.    |  | 8   | (CONNECTOR) |                  |
| 3   | PHOSPHOR BRONZE | GOLD PLATING 0.05μMIN OVER NICKEL 1μMIN |  | 7   | POLYSTYRENE |                  |
| 2   | PPS             | (DEEP BROWN) UL94V-0                    |  | 6   | POLYESTER   |                  |
| 1   | POLYAMIDE       | (BEIGE) UL94V-0                         |  | 5   | POLYSTYRENE |                  |
| NO. | MATERIAL        | FINISH , REMARKS                        |  | NO. | MATERIAL    | FINISH , REMARKS |

|             |  |       |  |       |                          |          |         |      |
|-------------|--|-------|--|-------|--------------------------|----------|---------|------|
| UNITS<br>mm |  | SCALE |  | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|             |  | 5 : 1 |  |       |                          |          |         |      |

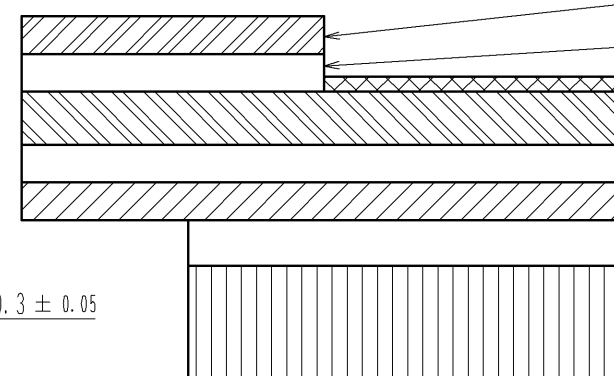
|            |                                 |                        |            |             |                        |
|------------|---------------------------------|------------------------|------------|-------------|------------------------|
| <b>HRS</b> | HIROSE<br>ELECTRIC<br>CO., LTD. | APPROVED : MO. ISHIDA  | 13. 12. 09 | DRAWING NO. | EDC3-150229-11         |
|            |                                 | CHECKED : HS. SAKAMOTO | 13. 12. 09 | PART NO.    | FH12- * * S-0. 5SH(55) |
|            |                                 | DESIGNED : RT. IKEDA   | 13. 12. 07 | CODE NO.    | CL586                  |
|            |                                 | DRAWN : NM. SANPEI     | 13. 12. 05 |             |                        |

|   |   |
|---|---|
| 1 | 5 |
|---|---|



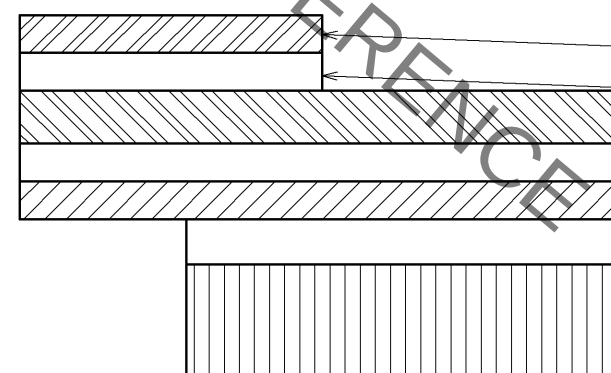
|             |                    |                                                                                       |
|-------------|--------------------|---------------------------------------------------------------------------------------|
| DRAWING NO. | EDC3-150229-11     |                                                                                       |
| PART NO.    | FH12-**S-0.5SH(55) |                                                                                       |
| CODE NO.    | CL586              |  |

## 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 +<br>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 7mil 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           |

4 THICKNESS OF SUPPORTING TAPE SHALL BE 0.188(7.5MIL) MIN.



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| PART NO.           | CODE NO.        | NUMBER OF CONTACT | DIMENSION TABLE OF CONNECTOR, FPC, FFC, PCB MOUNTING PATTERN AND STENCIL PATTERN |      |       |      |      |      |      |      | DIMENSION TABLE OF DRAWING FOR PACKING |      |      |      |      |      |      |
|--------------------|-----------------|-------------------|----------------------------------------------------------------------------------|------|-------|------|------|------|------|------|----------------------------------------|------|------|------|------|------|------|
|                    |                 |                   | A                                                                                | B    | C     | D    | E    | F    | G    | H    | K                                      | L    | M    | N    | P    | Q    | R    |
| FH12- 6S-0.5SH(55) | CL586-0582-5-55 | 6                 | 2.5                                                                              | 6.1  | 3.57  | 7.1  | 4.9  | 4.5  | 8.1  | 3.5  | 16                                     | —    | 7.5  | 7.8  | 3.5  | 17.4 | 21.4 |
| FH12- 8S-0.5SH(55) | CL586-0744-5-55 | 8                 | 3.5                                                                              | 7.1  | 4.57  | 8.1  | 5.9  | 5.5  | 9.1  | 4.5  | 16                                     | —    | 7.5  | 8.8  | 4.5  | 17.4 | 21.4 |
| FH12-10S-0.5SH(55) | CL586-0522-3-55 | 10                | 4.5                                                                              | 8.1  | 5.57  | 9.1  | 6.9  | 6.5  | 10.1 | 5.5  | 16                                     | —    | 7.5  | 9.8  | 5.5  | 17.4 | 21.4 |
| FH12-11S-0.5SH(55) | CL586-0600-5-55 | 11                | 5                                                                                | 8.6  | 6.07  | 9.6  | 7.4  | 7    | 10.6 | 6    | 16                                     | —    | 7.5  | 10.3 | 6    | 17.4 | 21.4 |
| FH12-12S-0.5SH(55) | CL586-0704-0-55 | 12                | 5.5                                                                              | 9.1  | 6.57  | 10.1 | 7.9  | 7.5  | 11.1 | 6.5  | 24                                     | —    | 11.5 | 10.8 | 6.5  | 25.4 | 29.4 |
| FH12-13S-0.5SH(55) | CL586-0549-0-55 | 13                | 6                                                                                | 9.6  | 7.07  | 10.6 | 8.4  | 8    | 11.6 | 7    | 24                                     | —    | 11.5 | 11.3 | 7    | 25.4 | 29.4 |
| FH12-14S-0.5SH(55) | CL586-0533-0-55 | 14                | 6.5                                                                              | 10.1 | 7.57  | 11.1 | 8.9  | 8.5  | 12.1 | 7.5  | 24                                     | —    | 11.5 | 11.8 | 7.5  | 25.4 | 29.4 |
| FH12-15S-0.5SH(55) | CL586-0523-6-55 | 15                | 7                                                                                | 10.6 | 8.07  | 11.6 | 9.4  | 9    | 12.6 | 8    | 24                                     | —    | 11.5 | 12.3 | 8    | 25.4 | 29.4 |
| FH12-16S-0.5SH(55) | CL586-0531-4-55 | 16                | 7.5                                                                              | 11.1 | 8.57  | 12.1 | 9.9  | 9.5  | 13.1 | 8.5  | 24                                     | —    | 11.5 | 12.8 | 8.5  | 25.4 | 29.4 |
| FH12-17S-0.5SH(55) | CL586-0606-1-55 | 17                | 8                                                                                | 11.6 | 9.07  | 12.6 | 10.4 | 10   | 13.6 | 9    | 24                                     | —    | 11.5 | 13.3 | 9    | 25.4 | 29.4 |
| FH12-18S-0.5SH(55) | CL586-0530-1-55 | 18                | 8.5                                                                              | 12.1 | 9.57  | 13.1 | 10.9 | 10.5 | 14.1 | 9.5  | 24                                     | —    | 11.5 | 13.8 | 9.5  | 25.4 | 29.4 |
| FH12-19S-0.5SH(55) | CL586-0534-2-55 | 19                | 9                                                                                | 12.6 | 10.07 | 13.6 | 11.4 | 11   | 14.6 | 10   | 24                                     | —    | 11.5 | 14.3 | 10   | 25.4 | 29.4 |
| FH12-20S-0.5SH(55) | CL586-0524-9-55 | 20                | 9.5                                                                              | 13.1 | 10.57 | 14.1 | 11.9 | 11.5 | 15.1 | 10.5 | 24                                     | —    | 11.5 | 14.8 | 10.5 | 25.4 | 29.4 |
| FH12-22S-0.5SH(55) | CL586-0532-7-55 | 22                | 10.5                                                                             | 14.1 | 11.57 | 15.1 | 12.9 | 12.5 | 16.1 | 11.5 | 24                                     | —    | 11.5 | 15.8 | 11.5 | 25.4 | 29.4 |
| FH12-24S-0.5SH(55) | CL586-0521-0-55 | 24                | 11.5                                                                             | 15.1 | 12.57 | 16.1 | 13.9 | 13.5 | 17.1 | 12.5 | 24                                     | —    | 11.5 | 16.8 | 12.5 | 25.4 | 29.4 |
| FH12-25S-0.5SH(55) | CL586-0692-3-55 | 25                | 12                                                                               | 15.6 | 13.07 | 16.6 | 14.4 | 14   | 17.6 | 13   | 24                                     | —    | 11.5 | 17.3 | 13   | 25.4 | 29.4 |
| FH12-26S-0.5SH(55) | CL586-0576-2-55 | 26                | 12.5                                                                             | 16.1 | 13.57 | 17.1 | 14.9 | 14.5 | 18.1 | 13.5 | 24                                     | —    | 11.5 | 17.8 | 13.5 | 25.4 | 29.4 |
| FH12-28S-0.5SH(55) | CL586-0612-4-55 | 28                | 13.5                                                                             | 17.1 | 14.57 | 18.1 | 15.9 | 15.5 | 19.1 | 14.5 | 32                                     | 28.4 | 14.2 | 18.8 | 14.5 | 33.4 | 37.4 |
| FH12-30S-0.5SH(55) | CL586-0525-1-55 | 30                | 14.5                                                                             | 18.1 | 15.57 | 19.1 | 16.9 | 16.5 | 20.1 | 15.5 | 32                                     | 28.4 | 14.2 | 19.8 | 15.5 | 33.4 | 37.4 |
| FH12-32S-0.5SH(55) | CL586-0681-7-55 | 32                | 15.5                                                                             | 19.1 | 16.57 | 20.1 | 17.9 | 17.5 | 21.1 | 16.5 | 32                                     | 28.4 | 14.2 | 20.8 | 16.5 | 33.4 | 37.4 |
| FH12-33S-0.5SH(55) | CL586-0520-8-55 | 33                | 16                                                                               | 19.6 | 17.07 | 20.6 | 18.4 | 18   | 21.6 | 17   | 32                                     | 28.4 | 14.2 | 21.3 | 17   | 33.4 | 37.4 |
| FH12-34S-0.5SH(55) | CL586-0617-8-55 | 34                | 16.5                                                                             | 20.1 | 17.57 | 21.1 | 18.9 | 18.5 | 22.1 | 17.5 | 32                                     | 28.4 | 14.2 | 21.8 | 17.5 | 33.4 | 37.4 |
| FH12-35S-0.5SH(55) | CL586-0740-4-55 | 35                | 17                                                                               | 20.6 | 18.07 | 21.6 | 19.4 | 19   | 22.6 | 18   | 44                                     | 40.4 | 20.2 | 22.3 | 18   | 45.4 | 49.4 |
| FH12-36S-0.5SH(55) | CL586-0526-4-55 | 36                | 17.5                                                                             | 21.1 | 18.57 | 22.1 | 19.9 | 19.5 | 23.1 | 18.5 | 44                                     | 40.4 | 20.2 | 22.8 | 18.5 | 45.4 | 49.4 |
| FH12-40S-0.5SH(55) | CL586-0527-7-55 | 40                | 19.5                                                                             | 23.1 | 20.57 | 24.1 | 21.9 | 21.5 | 25.1 | 20.5 | 44                                     | 40.4 | 20.2 | 24.8 | 20.5 | 45.4 | 49.4 |
| FH12-45S-0.5SH(55) | CL586-0528-0-55 | 45                | 22                                                                               | 25.6 | 23.07 | 26.6 | 24.4 | 24   | 27.6 | 23   | 44                                     | 40.4 | 20.2 | 27.3 | 23   | 45.4 | 49.4 |
| FH12-50S-0.5SH(55) | CL586-0529-2-55 | 50                | 24.5                                                                             | 28.1 | 25.57 | 29.1 | 26.9 | 26.5 | 30.1 | 25.5 | 44                                     | 40.4 | 20.2 | 29.8 | 25.5 | 45.4 | 49.4 |
| FH12-53S-0.5SH(55) | CL586-0595-7-55 | 53                | 26                                                                               | 29.6 | 27.07 | 30.6 | 28.4 | 28   | 31.6 | 27   | 44                                     | 40.4 | 20.2 | 31.3 | 27   | 45.4 | 49.4 |

|            |             |                      |                                                 |
|------------|-------------|----------------------|-------------------------------------------------|
| <b>HRS</b> | DRAWING NO. | EDC3-150229-11       |                                                 |
|            | PART NO.    | FH12- ** S-0.5SH(55) |                                                 |
|            | CODE NO.    | CL586                | <div><div>△</div><div>5</div><div>5</div></div> |