

Amphenol  
FCi

© 2016 AFCI

C

## CAT. NO. &amp; DIMENSIONS

| (NOTE3) | NO. OF CONTACTS (n) | CAT. NO.          | DIMENSIONS (NOTE2) |         |         |
|---------|---------------------|-------------------|--------------------|---------|---------|
|         |                     |                   | A ± 0.2            | B ± 0.2 | C ± 0.1 |
|         | 4                   | HFW4R-1/2ST__HLF  | 6.6                | 3       | 5.14    |
|         | 5                   | HFW5R-1/2ST__HLF  | 7.6                | 4       | 6.14    |
|         | 6                   | HFW6R-1/2ST__HLF  | 8.6                | 5       | 7.14    |
|         | 7                   | HFW7R-1/2ST__HLF  | 9.6                | 6       | 8.14    |
|         | 8                   | HFW8R-1/2ST__HLF  | 10.6               | 7       | 9.14    |
|         | 9                   | HFW9R-1/2ST__HLF  | 11.6               | 8       | 10.14   |
|         | 10                  | HFW10R-1/2ST__HLF | 12.6               | 9       | 11.14   |
|         | 11                  | HFW11R-1/2ST__HLF | 13.6               | 10      | 12.14   |
|         | 12                  | HFW12R-1/2ST__HLF | 14.6               | 11      | 13.14   |
|         | 13                  | HFW13R-1/2ST__HLF | 15.6               | 12      | 14.14   |
|         | 14                  | HFW14R-1/2ST__HLF | 16.6               | 13      | 15.14   |
|         | 15                  | HFW15R-1/2ST__HLF | 17.6               | 14      | 16.14   |
|         | 16                  | HFW16R-1/2ST__HLF | 18.6               | 15      | 17.14   |
|         | 17                  | HFW17R-1/2ST__HLF | 19.6               | 16      | 18.14   |
|         | 18                  | HFW18R-1/2ST__HLF | 20.6               | 17      | 19.14   |
|         | 19                  | HFW19R-1/2ST__HLF | 21.6               | 18      | 20.14   |
|         | 20                  | HFW20R-1/2ST__HLF | 22.6               | 19      | 21.14   |
|         | 21                  | HFW21R-1/2ST__HLF | 23.6               | 20      | 22.14   |
|         | 22                  | HFW22R-1/2ST__HLF | 24.6               | 21      | 23.14   |
|         | 23                  | HFW23R-1/2ST__HLF | 25.6               | 22      | 24.14   |
|         | 24                  | HFW24R-1/2ST__HLF | 26.6               | 23      | 25.14   |
|         | 25                  | HFW25R-1/2ST__HLF | 27.6               | 24      | 26.14   |
|         | 26                  | HFW26R-1/2ST__HLF | 28.6               | 25      | 27.14   |
|         | 27                  | HFW27R-1/2ST__HLF | 29.6               | 26      | 28.14   |
| *       | 28                  | HFW28R-1/2ST__HLF | 30.6               | 27      | 29.14   |
| *       | 29                  | HFW29R-1/2ST__HLF | 31.6               | 28      | 30.14   |
|         | 30                  | HFW30R-1/2ST__HLF | 32.6               | 29      | 31.14   |

CAT. NO. HFW (n) R - 1 ST \_\_ HLF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE  
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

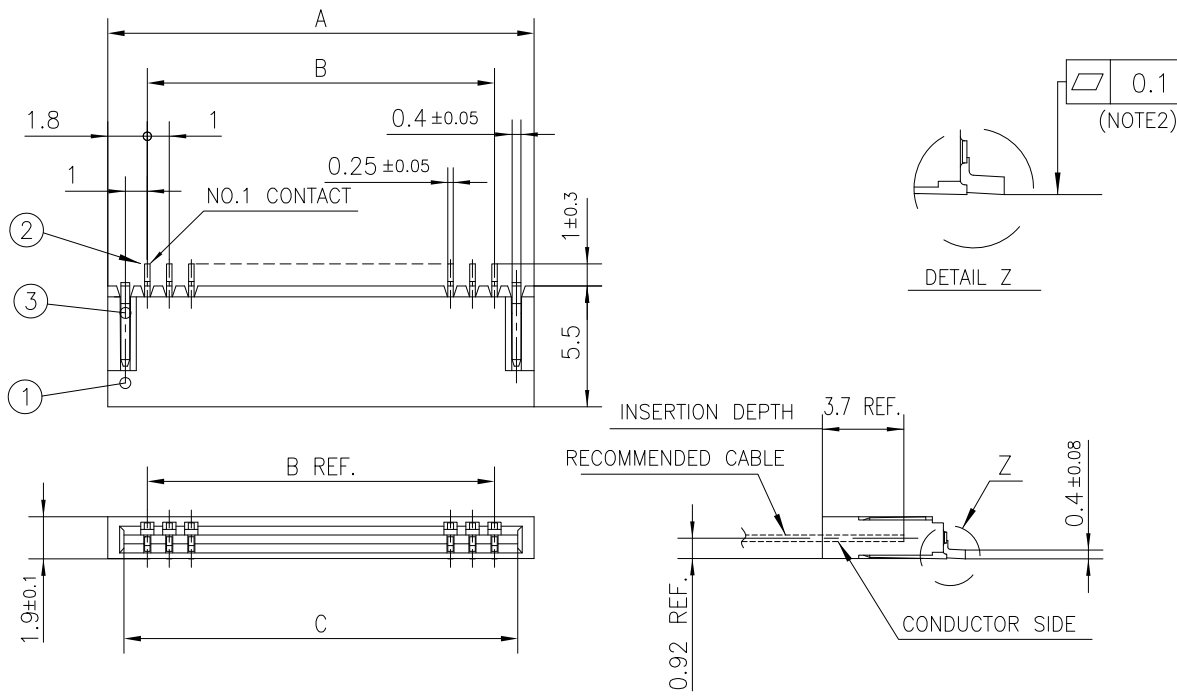
PACKAGE STYLE

HALOGEN and LEAD FREE

## NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~C.
3. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.

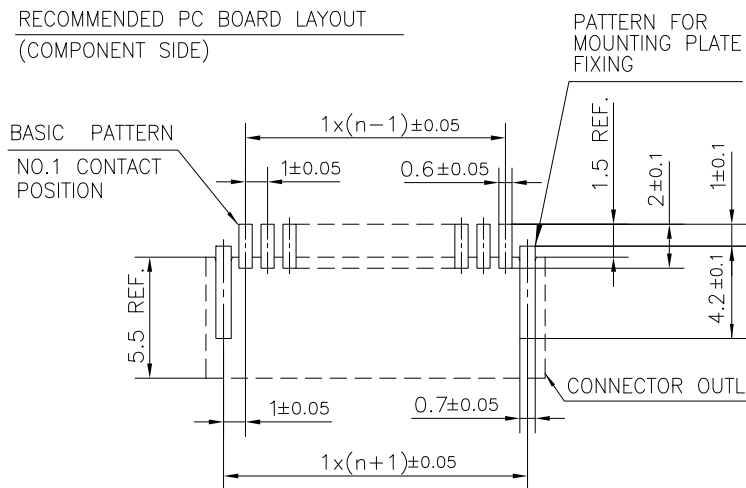
|             |        |                |      |                                       |            |                            |  |                 |  |                                                                                |  |  |  |
|-------------|--------|----------------|------|---------------------------------------|------------|----------------------------|--|-----------------|--|--------------------------------------------------------------------------------|--|--|--|
| mat'l. code |        |                |      | surface ISO 1302                      |            | tolerance ISO 406 ISO 1101 |  | projection      |  | product family 58NF                                                            |  |  |  |
| ltr         | ecn no | dr             | date | tolerances unless otherwise specified |            |                            |  |                 |  | title                                                                          |  |  |  |
| B           |        |                |      | angles                                | linear     |                            |  | MM              |  | CAT. NO. TABLE FOR<br>1mm SPACING SMT CONNECTOR<br>(Cat.No. HFW__R-1/2ST__HLF) |  |  |  |
|             |        |                |      |                                       |            |                            |  | scale N/A       |  | dwg no sheet 2 of 9 size                                                       |  |  |  |
|             |        |                |      | dr                                    | S.WATANABE | 2019-3-13                  |  | Amphenol<br>FCi |  | 10089213 A4                                                                    |  |  |  |
|             |        |                |      | engr                                  | S.WATANABE | 2019-3-13                  |  |                 |  |                                                                                |  |  |  |
|             |        |                |      | chr                                   | S-H.THIO   | 2019-3-13                  |  |                 |  |                                                                                |  |  |  |
|             |        |                |      | appd                                  | Y.KAMEDA   | 2019-3-13                  |  |                 |  |                                                                                |  |  |  |
| sheet index |        | revision sheet |      |                                       |            |                            |  |                 |  | type Product Customer Drawing                                                  |  |  |  |



| PT. NO. | PARTS NAME     | MATERIAL                              | Q'TY | NOTE                            |
|---------|----------------|---------------------------------------|------|---------------------------------|
| 1       | HOUSING        | PA6T RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BLACK<br>(HALOGEN FREE) |
| 2       | CONTACT        | PHOSPHOR BRONZE                       | n    | PLATING : TIN                   |
| 3       | MOUNTING PLATE |                                       | 2    | (LEAD FREE)                     |

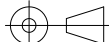
n : NO. OF CONTACTS

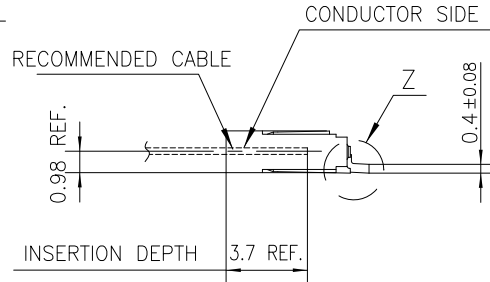
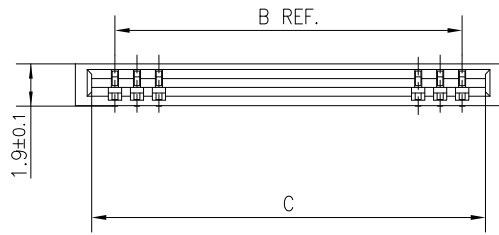
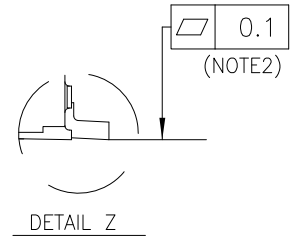
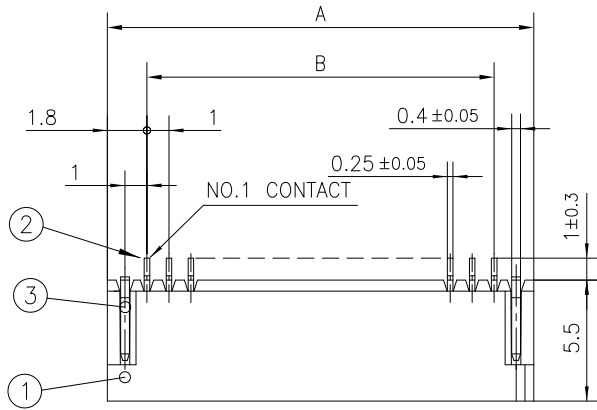
RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)



#### NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COTES WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

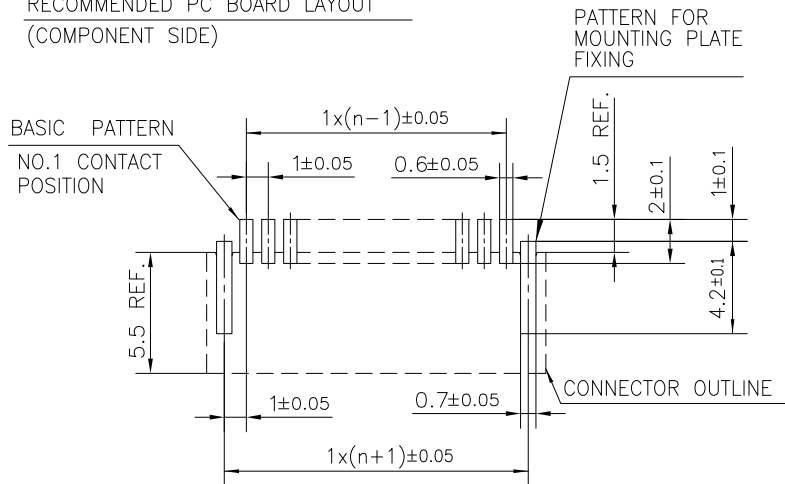
|                  |        |          |    |                       |  |                   |            |                               |  |                                                                                     |  |                                                                                                   |                                                                                     |                                                                                      |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------|--------|----------|----|-----------------------|--|-------------------|------------|-------------------------------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|------------------------|----------|--|--|--|--|--|--------------|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| mat'l. code<br>— |        |          |    | surface<br>ISO 1302 ✓ |  |                   |            | tolerance<br>ISO 406 ISO 1101 |  |                                                                                     |  | projection<br> |                                                                                     |                                                                                      |  | product family<br>58NF |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ltr              | ecn no |          | dr | date                  |  | tolerances unless |            | otherwise specified           |  |  |  |                                                                                                   |                                                                                     | title<br>1mm SPACING SURFACE MOUNT<br>FPC/FFC CONNECTOR<br>(Cat.No. HFW__R-1ST__HLF) |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| B                |        |          |    |                       |  | angles            |            | linear                        |  |                                                                                     |  |                                                                                                   |                                                                                     | ±0.2                                                                                 |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |        |          |    |                       |  |                   |            |                               |  | scale N/A                                                                           |  |                                                                                                   |                                                                                     |                                                                                      |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |        |          |    |                       |  | dr                | S.WATANABE |                               |  | 2019-3-13                                                                           |  |                                                                                                   |  |                                                                                      |  |                        | dwg no   |  |  |  |  |  | sheet 3 of 9 |  |  | size |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |        |          |    |                       |  | engr              | S.WATANABE |                               |  | 2019-3-13                                                                           |  |                                                                                                   |                                                                                     |                                                                                      |  |                        | 10089213 |  |  |  |  |  | A4           |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |        |          |    |                       |  | chr               | S-H.THIO   |                               |  | 2019-3-13                                                                           |  |                                                                                                   |                                                                                     |                                                                                      |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |        |          |    |                       |  | appd              | Y.KAMEDA   |                               |  | 2019-3-13                                                                           |  |                                                                                                   |                                                                                     |                                                                                      |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| sheet index      |        | revision |    |                       |  |                   |            |                               |  |                                                                                     |  |                                                                                                   |                                                                                     |                                                                                      |  |                        |          |  |  |  |  |  |              |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| PT. NO. | PARTS NAME     | MATERIAL                              | Q'TY | NOTE                            |
|---------|----------------|---------------------------------------|------|---------------------------------|
| 1       | HOUSING        | PA6T RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BLACK<br>(HALOGEN FREE) |
| 2       | CONTACT        | PHOSPHOR BRONZE                       | n    | PLATING : TIN                   |
| 3       | MOUNTING PLATE |                                       | 2    | (LEAD FREE)                     |

n : NO. OF CONTACTS

#### RECOMMENDED PC BOARD LAYOUT (COMPONENT SIDE)



#### NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. FLATNESS OF CONTACT TERMINAL FOR HOUSING MUST BE WITHIN TOLERANCE IN Z PORTION DETAILED DRAWING.
3. THIS PRODUCT IS UPPER CONTACT TYPE CONNECTOR.
4. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-22-008
5. THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A REFLOW SOLDERING OVEN.

|             |  |  |  |                  |  |                            |  |            |  |                                       |  |        |  |        |  |    |  |                                                                       |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|------------------|--|----------------------------|--|------------|--|---------------------------------------|--|--------|--|--------|--|----|--|-----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| mat'l. code |  |  |  | surface ISO 1302 |  | tolerance ISO 406 ISO 1101 |  | projection |  | product family 58NF                   |  |        |  |        |  |    |  |                                                                       |  |  |  |  |  |  |  |  |  |
| ltr         |  |  |  | ecn no           |  | dr                         |  | date       |  | tolerances unless otherwise specified |  | angles |  | linear |  | MM |  | title                                                                 |  |  |  |  |  |  |  |  |  |
| B           |  |  |  |                  |  |                            |  |            |  |                                       |  |        |  |        |  |    |  | 1mm SPACING SURFACE MOUNT FPC/FFC CONNECTOR (Cat.No. HFW__R-2ST__HLF) |  |  |  |  |  |  |  |  |  |
|             |  |  |  |                  |  |                            |  |            |  |                                       |  |        |  |        |  |    |  | dwg no sheet 4 of 9 size                                              |  |  |  |  |  |  |  |  |  |
|             |  |  |  |                  |  |                            |  |            |  |                                       |  |        |  |        |  |    |  | 10089213 A4                                                           |  |  |  |  |  |  |  |  |  |
|             |  |  |  |                  |  |                            |  |            |  |                                       |  |        |  |        |  |    |  | type Product Customer Drawing                                         |  |  |  |  |  |  |  |  |  |
| sheet index |  |  |  | revision sheet   |  |                            |  |            |  |                                       |  |        |  |        |  |    |  |                                                                       |  |  |  |  |  |  |  |  |  |

## CAT. NO. &amp; DIMENSIONS

| (NOTE4) | NO. OF CONTACTS (n) | CAT. NO. (NOTE2)  | DIMENSIONS (NOTE3) |         |         |
|---------|---------------------|-------------------|--------------------|---------|---------|
|         |                     |                   | E ± 5              | F ± 0.3 | G ± 0.1 |
|         | 4                   | HFW4R-1/2STE1HLF  | 28.4               | 24      | —       |
|         | 5                   | HFW5R-1/2STE1HLF  | 28.4               | 24      | —       |
|         | 6                   | HFW6R-1/2STE1HLF  | 28.4               | 24      | —       |
|         | 7                   | HFW7R-1/2STE1HLF  | 28.4               | 24      | —       |
|         | 8                   | HFW8R-1/2STE1HLF  | 28.4               | 24      | —       |
|         | 9                   | HFW9R-1/2STE1HLF  | 28.4               | 24      | —       |
|         | 10                  | HFW10R-1/2STE1HLF | 28.4               | 24      | —       |
|         | 11                  | HFW11R-1/2STE1HLF | 28.4               | 24      | —       |
|         | 12                  | HFW12R-1/2STE1HLF | 28.4               | 24      | —       |
|         | 13                  | HFW13R-1/2STE1HLF | 28.4               | 24      | —       |
|         | 14                  | HFW14R-1/2STE1HLF | 28.4               | 24      | —       |
|         | 15                  | HFW15R-1/2STE1HLF | 36.4               | 32      | 28.4    |
|         | 16                  | HFW16R-1/2STE1HLF | 36.4               | 32      | 28.4    |
|         | 17                  | HFW17R-1/2STE1HLF | 36.4               | 32      | 28.4    |
|         | 18                  | HFW18R-1/2STE1HLF | 36.4               | 32      | 28.4    |
|         | 19                  | HFW19R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 20                  | HFW20R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 21                  | HFW21R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 22                  | HFW22R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 23                  | HFW23R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 24                  | HFW24R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 25                  | HFW25R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 26                  | HFW26R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 27                  | HFW27R-1/2STE1HLF | 48.4               | 44      | 40.4    |
| *       | 28                  | HFW28R-1/2STE1HLF | 48.4               | 44      | 40.4    |
| *       | 29                  | HFW29R-1/2STE1HLF | 48.4               | 44      | 40.4    |
|         | 30                  | HFW30R-1/2STE1HLF | 60.4               | 56      | 52.4    |

CAT. NO.

HFW (n) R - 1 ST E1 HLF

SERIES

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

FOR AUTOMATIC MOUNTING (SMT)

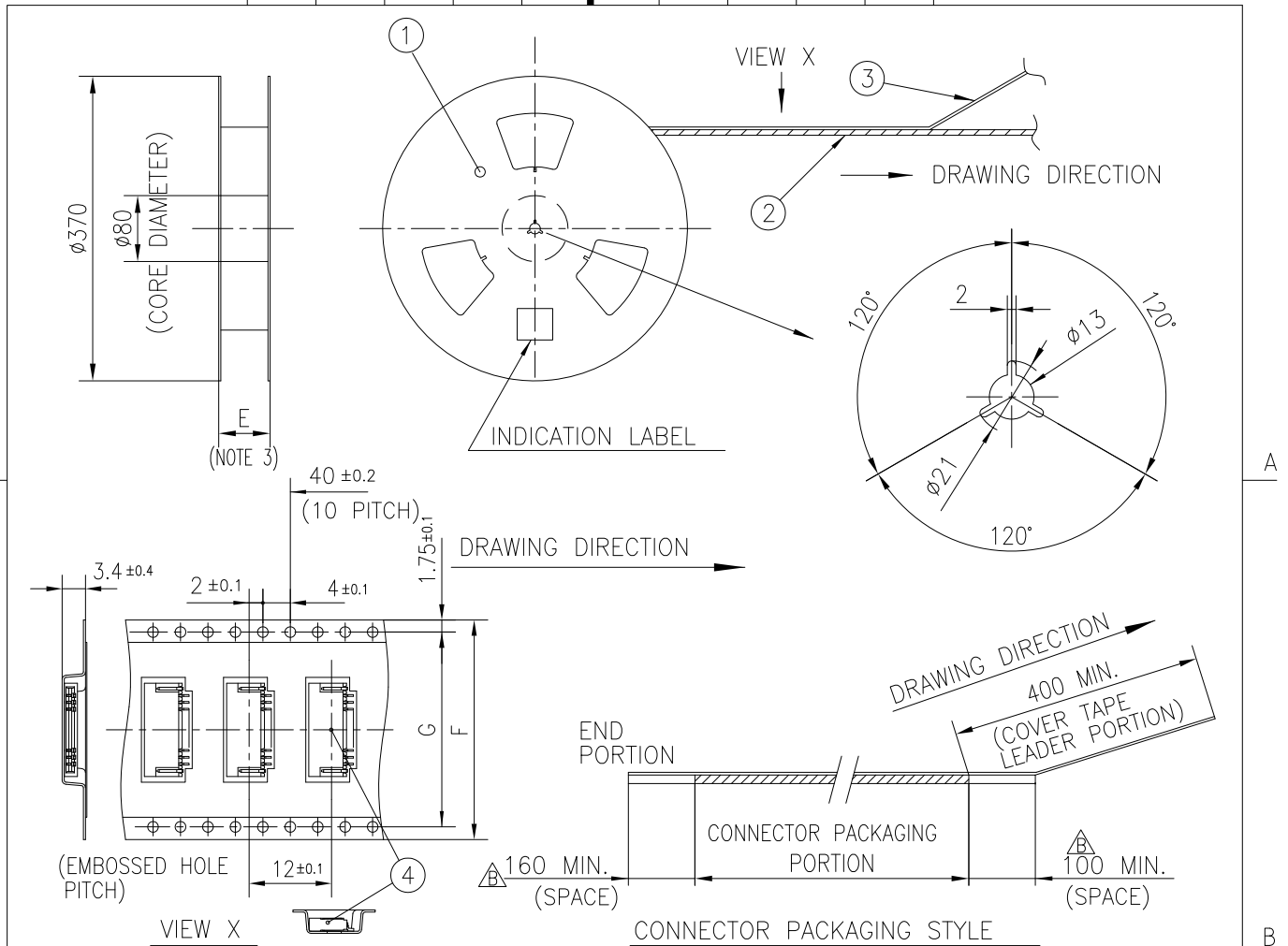
TAPE PACKAGING

HALOGEN and LEAD FREE

## NOTES

1. THIS PRODUCT IS THE CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND COPE WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS E~G.
4. PLEASE CONSULT US IN CASE OF USING PARTS WITH \* MARK.

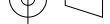
|                    |  |                |  |                                       |  |                            |  |            |  |                                                                                            |  |                               |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|----------------|--|---------------------------------------|--|----------------------------|--|------------|--|--------------------------------------------------------------------------------------------|--|-------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| mat'l. code        |  |                |  | surface ISO 1302                      |  | tolerance ISO 406 ISO 1101 |  | projection |  | product family 58NF                                                                        |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| ltr ecn no dr date |  |                |  | tolerances unless otherwise specified |  |                            |  |            |  | title                                                                                      |  |                               |  |  |  |  |  |  |  |  |  |  |  |
| B                  |  |                |  | angles linear                         |  |                            |  | MM         |  | CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED 1mm SPACING SMT CONN. (Cat.No. HFW__R-1/2STE1HLF) |  |                               |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |                |  | dr                                    |  | S.WATANABE                 |  | 2019-3-13  |  | scale N/A                                                                                  |  | dwg no sheet 5 of 9 size      |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |                |  | engr                                  |  | S.WATANABE                 |  | 2019-3-13  |  | Amphenol FCI                                                                               |  | 10089213 A4                   |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |                |  | chr                                   |  | S-H.THIO                   |  | 2019-3-13  |  |                                                                                            |  |                               |  |  |  |  |  |  |  |  |  |  |  |
|                    |  |                |  | appd                                  |  | Y.KAMEDA                   |  | 2019-3-13  |  |                                                                                            |  | type Product Customer Drawing |  |  |  |  |  |  |  |  |  |  |  |
| sheet index        |  | revision sheet |  |                                       |  |                            |  |            |  |                                                                                            |  |                               |  |  |  |  |  |  |  |  |  |  |  |

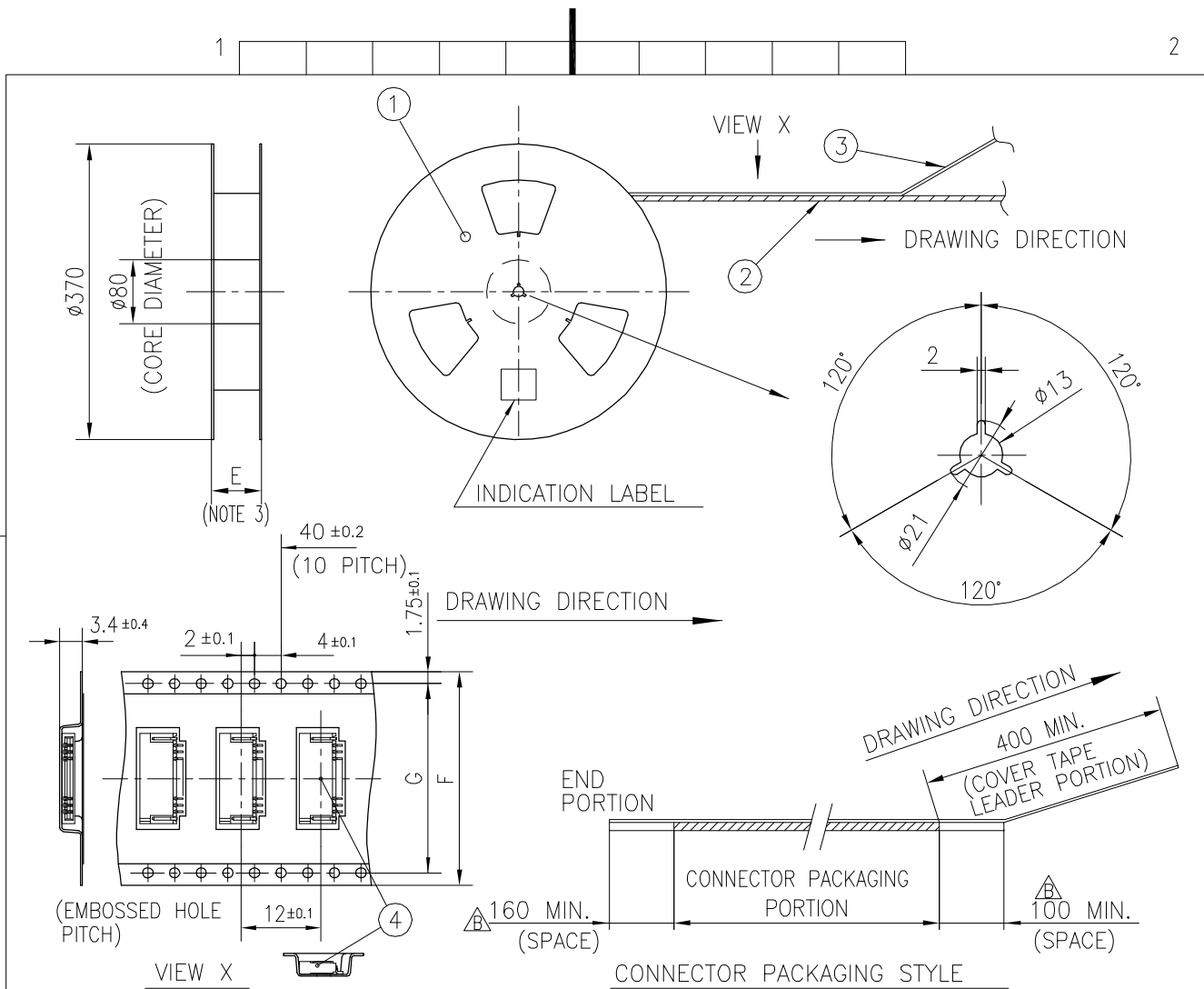


| PT. NO. | PARTS NAME               | CAT. NO.        | MATERIAL                        | Q'TY | NOTE               |
|---------|--------------------------|-----------------|---------------------------------|------|--------------------|
| 1       | REEL                     | —               | CARDBOARD                       | 1    | COLOR:WHITE        |
| 2       | PLASTIC (EMBOSSSED) TAPE | —               | $\Delta$ PS or A-PET            | —    | COLOR:TRANSPARENCY |
| 3       | COVER                    | —               | $\Delta$ POLYESTER,POLYETHYLENE | —    | COLOR:TRANSPARENCY |
| 4       | CONNECTOR                | HFW__R-1ST__HLF | SEE SHEET 3                     | 2000 | LOWER CONTACT TYPE |

## NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSSED) TAPE AND REEL.
- E DIMENSION IS PORTION OF THE CORE.

|                  |        |          |      |                       |            |                               |           |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
|------------------|--------|----------|------|-----------------------|------------|-------------------------------|-----------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------|--|--|--|--|--------------|--|------|--|--|--|
| mat'l. code<br>— |        |          |      | surface<br>ISO 1302 ✓ |            | tolerance<br>ISO 406 ISO 1101 |           | projection<br> |                                                                 | product family<br>58NF |  |  |  |  |              |  |      |  |  |  |
| ltr              | ecn no | dr       | date | tolerances unless     |            | otherwise specified           |           |                | title<br>1mm SPACING SMT CONNECTOR<br>(Cat.No. HFW__R-1STE1HLF) |                        |  |  |  |  |              |  |      |  |  |  |
| B                |        |          |      | angles                | linear     | ±5                            | scale N/A |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
|                  |        |          |      | ±5°                   |            |                               |           |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
|                  |        |          |      |                       |            |                               |           |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
|                  |        |          |      | dr                    | S.WATANABE |                               | 2019-3-13 |                | dwg no                                                          |                        |  |  |  |  | sheet 6 of 9 |  | size |  |  |  |
|                  |        |          |      | engr                  | S.WATANABE |                               | 2019-3-13 |                                                                                                   | 10089213                                                        |                        |  |  |  |  | A4           |  |      |  |  |  |
|                  |        |          |      | chr                   | S-H.THIO   |                               | 2019-3-13 |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
|                  |        |          |      | appd                  | Y.KAMEDA   |                               | 2019-3-13 |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
| sheet index      |        | revision |      |                       |            |                               |           |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |
|                  |        | sheet    |      |                       |            |                               |           |                                                                                                   |                                                                 |                        |  |  |  |  |              |  |      |  |  |  |



| PT. NO. | PARTS NAME             | CAT. NO.        | MATERIAL                | Q'TY  | NOTE               |
|---------|------------------------|-----------------|-------------------------|-------|--------------------|
| 1       | REEL                   | _____           | CARDBOARD               | 1     | COLOR:WHITE        |
| 2       | PLASTIC (EMBOSSD) TAPE | _____           | △PS or A-PET            | _____ | COLOR:TRANSPARENCY |
| 3       | COVER                  | _____           | △POLYESTER,POLYETHYLENE | _____ | COLOR:TRANSPARENCY |
| 4       | CONNECTOR              | HFW__R-2ST__HLF | SEE SHEET 4             | 2000  | UPPER CONTACT TYPE |

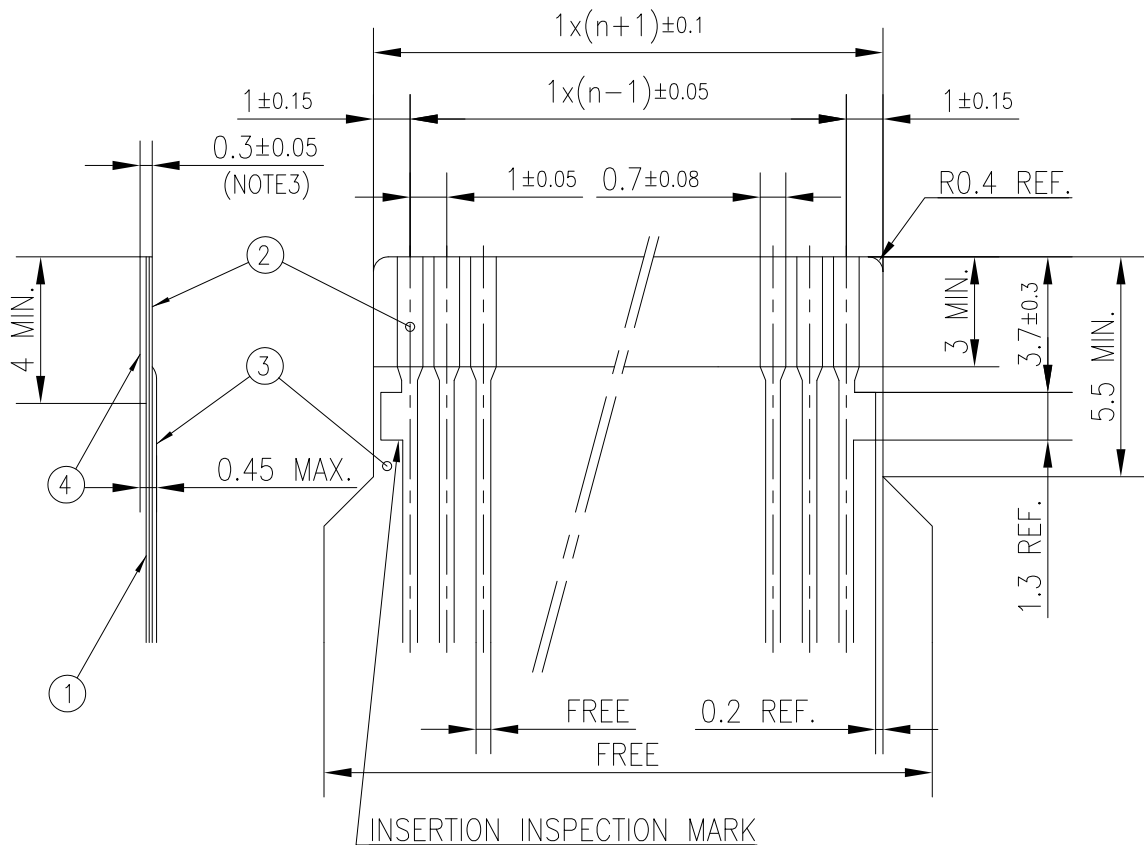
#### NOTES

- THIS IS PLASTIC TAPE PACKAGED CONNECTOR DESIGNED TO TERMINATE FPC/FFC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
- SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSSD) TAPE AND REEL.
- E DIMENSION IS PORTION OF THE CORE.

|             |          |    |      |                                       |                  |            |                               |  |  |  |
|-------------|----------|----|------|---------------------------------------|------------------|------------|-------------------------------|--|--|--|
| mat'l. code |          |    |      | surface                               | tolerance        | projection | product family                |  |  |  |
| —           |          |    |      | ISO 1302                              | ISO 406 ISO 1101 | ⊕          | 58NF                          |  |  |  |
| ltr         | ecn no   | dr | date | tolerances unless otherwise specified |                  | MM         | title                         |  |  |  |
| B           |          |    |      | angles                                | ±5               | ←          | 1mm SPACING SMT CONNECTOR     |  |  |  |
|             |          |    |      | linear                                | ±5°              | →          | (Cat.No. HFW__R-2STE1HLF)     |  |  |  |
|             |          |    |      | dr                                    | S.WATANABE       | 2019-3-13  | dwg no                        |  |  |  |
|             |          |    |      | engr                                  | S.WATANABE       | 2019-3-13  | sheet 7 of 9                  |  |  |  |
|             |          |    |      | chr                                   | S-H.THIO         | 2019-3-13  | 10089213                      |  |  |  |
|             |          |    |      | appd                                  | Y.KAMEDA         | 2019-3-13  | type Product Customer Drawing |  |  |  |
| sheet index | revision |    |      |                                       |                  |            |                               |  |  |  |
|             | sheet    |    |      |                                       |                  |            |                               |  |  |  |

## RECOMMENDED CABLE (FPC)

n : NO. OF CONDUCTORS



| PT. NO. | DESCRIPTION     | MATERIAL                                       | THICKNESS (um) |
|---------|-----------------|------------------------------------------------|----------------|
| 1       | BASE FILM       | POLYIMIDE OR POLYESTER OR EQUIVALENT           | 25             |
| 2       | CONDUCTOR       | COPPER FOIL (PLATING : TIN OR SOLDER 1um MIN.) | 35             |
| 3       | OVERLAY         | POLYIMIDE OR POLYESTER OR EQUIVALENT           | —              |
| 4       | SUPPORTING TAPE | POLYESTER OR POLYIMIDE OR EQUIVALENT           | 188            |

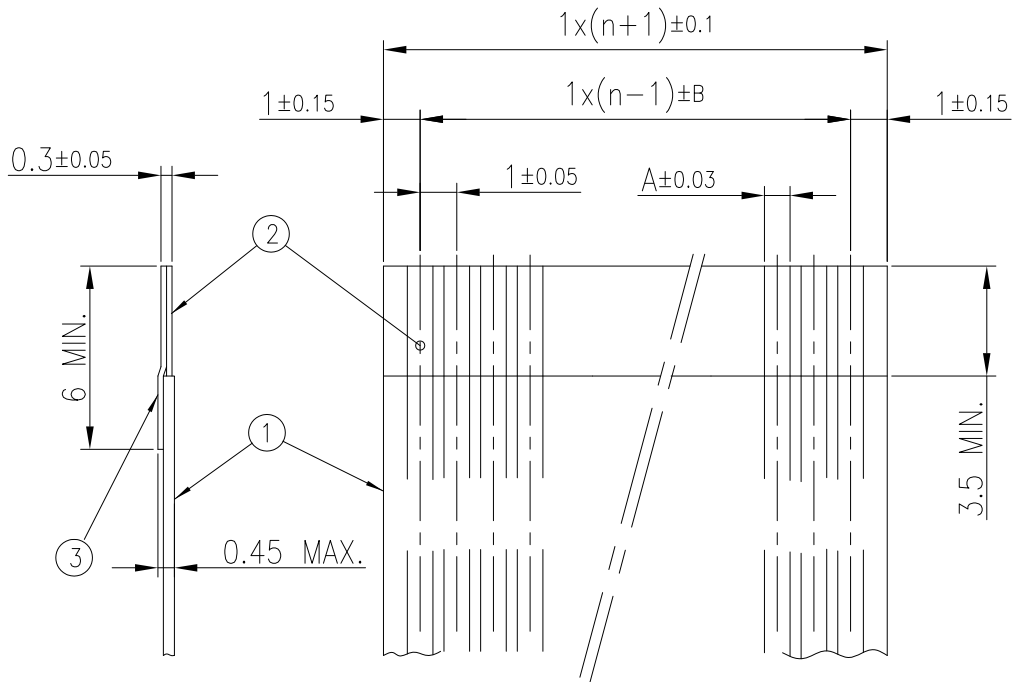
## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. TOTAL THICKNESS LIMIT OF EACH MATERIAL (INCLUDING ADHESIVE AGENT) IS SPECIFIED.

|             |                |    |      |                                       |            |           |                 |                               |  |              |      |
|-------------|----------------|----|------|---------------------------------------|------------|-----------|-----------------|-------------------------------|--|--------------|------|
| mat'l. code |                |    |      | surface                               | tolerance  |           | projection      | product family                |  |              |      |
| —           |                |    |      | ISO 1302                              | ISO 406    | ISO 1101  | ⊕               | 58NF                          |  |              |      |
| ltr         | ecn no         | dr | date | tolerances unless otherwise specified |            |           | MM              | title                         |  |              |      |
| B           |                |    |      | angles                                | linear     |           | ↔               | RECOMMENDED CABLE             |  |              |      |
|             |                |    |      |                                       |            |           | scale N/A       | (Cat. No. HFW__R-1/2__)       |  |              |      |
|             |                |    |      | dr                                    | S.WATANABE | 2019-3-13 | Amphenol<br>FCi | dwg no                        |  | sheet 8 of 9 | size |
|             |                |    |      | engr                                  | S.WATANABE | 2019-3-13 |                 | 10089213                      |  |              | A4   |
|             |                |    |      | chr                                   | S-H.THIO   | 2019-3-13 |                 |                               |  |              |      |
|             |                |    |      | appd                                  | Y.KAMEDA   | 2019-3-13 |                 | type Product Customer Drawing |  |              |      |
| sheet index | revision sheet |    |      |                                       |            |           |                 |                               |  |              |      |

## RECOMMENDED CABLE (FFC)

n : NO. OF CONDUCTORS



| (NOTE3) | DIMENSION A | TOLERANCE B |
|---------|-------------|-------------|
| 1       | 0.7         | 0.1         |
| 2       | 0.6         | 0.07        |

| PT. NO. | DESCRIPTION     | MATERIAL                                       |
|---------|-----------------|------------------------------------------------|
| 1       | INSULATOR       | FLAME RESISTING POLYESTER OR EQUIVALENT        |
| 2       | CONDUCTOR       | COPPER FOIL (PLATING : TIN OR SOLDER 1um MIN.) |
| 3       | SUPPORTING TAPE | FLAME RESISTING POLYESTER OR EQUIVALENT        |

## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. BOTH COMBINATION IS ALLOWED.

|             |  |  |  |                  |  |                            |  |            |  |                                       |  |  |  |            |  |                                                |  |                                         |  |  |  |           |  |
|-------------|--|--|--|------------------|--|----------------------------|--|------------|--|---------------------------------------|--|--|--|------------|--|------------------------------------------------|--|-----------------------------------------|--|--|--|-----------|--|
| mat'l. code |  |  |  | surface ISO 1302 |  | tolerance ISO 406 ISO 1101 |  | projection |  | product family 58NF                   |  |  |  |            |  |                                                |  |                                         |  |  |  |           |  |
| ltr         |  |  |  | ecn no           |  | dr                         |  | date       |  | tolerances unless otherwise specified |  |  |  | title      |  | RECOMMENDED CABLE<br>(Cat. No. HFW__R-1/2ST__) |  |                                         |  |  |  |           |  |
| B           |  |  |  |                  |  |                            |  |            |  | angles                                |  |  |  | linear     |  |                                                |  |                                         |  |  |  | MM        |  |
|             |  |  |  |                  |  |                            |  |            |  |                                       |  |  |  |            |  |                                                |  |                                         |  |  |  | scale N/A |  |
|             |  |  |  |                  |  |                            |  |            |  |                                       |  |  |  |            |  |                                                |  |                                         |  |  |  |           |  |
|             |  |  |  |                  |  |                            |  |            |  | dr                                    |  |  |  | S.WATANABE |  | 2019-3-13                                      |  | dwg no sheet 9 of 9 size<br>10089213 A4 |  |  |  |           |  |
|             |  |  |  |                  |  |                            |  |            |  | enr                                   |  |  |  | S.WATANABE |  | 2019-3-13                                      |  |                                         |  |  |  |           |  |
|             |  |  |  |                  |  |                            |  |            |  | chr                                   |  |  |  | S-H.THIO   |  | 2019-3-13                                      |  |                                         |  |  |  |           |  |
|             |  |  |  |                  |  |                            |  |            |  | appd                                  |  |  |  | Y.KAMEDA   |  | 2019-3-13                                      |  |                                         |  |  |  |           |  |
| sheet index |  |  |  | revision sheet   |  |                            |  |            |  |                                       |  |  |  |            |  |                                                |  | type Product Customer Drawing           |  |  |  |           |  |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)