

## Excellent Integrated System Limited

Stocking Distributor

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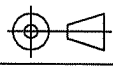
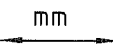
[SFV10R-1STE9HLF](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## List of "SFV\_\_R-1/2STE9HLF" customer document

| DOCUMENT NO.     | LIST                                                                                       |
|------------------|--------------------------------------------------------------------------------------------|
| 10117320(Sheet1) | DOCUMENT LIST                                                                              |
| 10117320(Sheet2) | CAT.NO.TABLE FOR 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2ST_HLF)                        |
| 10117320(Sheet3) | CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-1ST_HLF)                     |
| 10117320(Sheet4) | CONNECTOR USED FOR FPC/FFC WITH 0.5mm CONTACT SPACING (SFV__R-2ST_HLF)                     |
| 10117320(Sheet5) | CAT.NO.TABLE FOR PLASTIC TAPE PACKAGED 0.5mm CONTACT SPACING CONNECTOR (SFV__R-1/2STE9HLF) |
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| 10117320(Sheet8) | RECOMMENDED CABLE (FPC) (SFV__R-1/2ST__LF)                                                 |
| 10117320(Sheet9) | RECOMMENDED CABLE (FFC) (SFV__R-1/2ST__LF)                                                 |
| GS-12-645        | SPEC.                                                                                      |
| BJM-SFV101       | HANDLING PROCEDURES                                                                        |

|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  |                                                                                     |  |                                                                                         |  |            |  |           |  |
|-------------|--|----------------|--|---------------------------------------------------------|--|----------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--|------------|--|-----------|--|
| mat'l. code |  |                |  | surface<br>ISO 1302 <input checked="" type="checkbox"/> |  | tolerance<br>ISO 406 <input checked="" type="checkbox"/><br>ISO 1101 |  | projection<br> |  | product family<br>58EF                                                              |  |                                                                                         |  | CODE<br>JP |  |           |  |
| ltr         |  | ecn no         |  | dr                                                      |  | date                                                                 |  | tolerances unless otherwise specified                                                             |  |  |  | title<br>0.5mm SPACING FPC CONNECTOR<br>DOCUMENT LIST<br>(Cat. No. : SFV__R-1/2STE9HLF) |  |            |  |           |  |
| A           |  | J11-0042       |  | S.W                                                     |  | 2011-2-10                                                            |  | angles<br>linear                                                                                  |  |                                                                                     |  |                                                                                         |  |            |  |           |  |
|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  |  |  | dwg no<br>10117320                                                                      |  |            |  |           |  |
|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  |                                                                                     |  |                                                                                         |  |            |  |           |  |
|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  | scale $\propto$                                                                     |  | sheet 1 of 9                                                                            |  |            |  |           |  |
|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  |                                                                                     |  |                                                                                         |  |            |  |           |  |
|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  | type Product Customer Drawing                                                       |  | size<br>A4                                                                              |  |            |  |           |  |
|             |  |                |  |                                                         |  |                                                                      |  |                                                                                                   |  |                                                                                     |  |                                                                                         |  |            |  |           |  |
| sheet index |  | revision sheet |  | A                                                       |  | A                                                                    |  | A                                                                                                 |  | A                                                                                   |  | A                                                                                       |  | A          |  | Rev.<br>A |  |
| 1           |  | 2              |  | 3                                                       |  | 4                                                                    |  | 5                                                                                                 |  | 6                                                                                   |  | 7                                                                                       |  | 8          |  | 9         |  |

1

2

## CAT. NO. &amp; DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO.          | DIMENSIONS (NOTE2) |         |         |         |
|---------------------|-------------------|--------------------|---------|---------|---------|
|                     |                   | A ± 0.2            | B ± 0.2 | C ± 0.1 | D ± 0.1 |
| 4                   | SFV4R-1/2ST__HLF  | 7.5                | 5.9     | 1.5     | 2.7     |
| 5                   | SFV5R-1/2ST__HLF  | 8.0                | 6.4     | 2.0     | 3.2     |
| 6                   | SFV6R-1/2ST__HLF  | 8.5                | 6.9     | 2.5     | 3.7     |
| 7                   | SFV7R-1/2ST__HLF  | 9.0                | 7.4     | 3.0     | 4.2     |
| 8                   | SFV8R-1/2ST__HLF  | 9.5                | 7.9     | 3.5     | 4.7     |
| 9                   | SFV9R-1/2ST__HLF  | 10.0               | 8.4     | 4.0     | 5.2     |
| 10                  | SFV10R-1/2ST__HLF | 10.5               | 8.9     | 4.5     | 5.7     |
| 11                  | SFV11R-1/2ST__HLF | 11.0               | 9.4     | 5.0     | 6.2     |
| 12                  | SFV12R-1/2ST__HLF | 11.5               | 9.9     | 5.5     | 6.7     |
| 13                  | SFV13R-1/2ST__HLF | 12.0               | 10.4    | 6.0     | 7.2     |
| 14                  | SFV14R-1/2ST__HLF | 12.5               | 10.9    | 6.5     | 7.7     |
| 15                  | SFV15R-1/2ST__HLF | 13.0               | 11.4    | 7.0     | 8.2     |
| 16                  | SFV16R-1/2ST__HLF | 13.5               | 11.9    | 7.5     | 8.7     |
| 17                  | SFV17R-1/2ST__HLF | 14.0               | 12.4    | 8.0     | 9.2     |
| 18                  | SFV18R-1/2ST__HLF | 14.5               | 12.9    | 8.5     | 9.7     |
| 19                  | SFV19R-1/2ST__HLF | 15.0               | 13.4    | 9.0     | 10.2    |
| 20                  | SFV20R-1/2ST__HLF | 15.5               | 13.9    | 9.5     | 10.7    |
| 21                  | SFV21R-1/2ST__HLF | 16.0               | 14.4    | 10.0    | 11.2    |
| 22                  | SFV22R-1/2ST__HLF | 16.5               | 14.9    | 10.5    | 11.7    |
| 23                  | SFV23R-1/2ST__HLF | 17.0               | 15.4    | 11.0    | 12.2    |
| 24                  | SFV24R-1/2ST__HLF | 17.5               | 15.9    | 11.5    | 12.7    |
| 25                  | SFV25R-1/2ST__HLF | 18.0               | 16.4    | 12.0    | 13.2    |
| 26                  | SFV26R-1/2ST__HLF | 18.5               | 16.9    | 12.5    | 13.7    |
| 27                  | SFV27R-1/2ST__HLF | 19.0               | 17.4    | 13.0    | 14.2    |
| 28                  | SFV28R-1/2ST__HLF | 19.5               | 17.9    | 13.5    | 14.7    |
| 29                  | SFV29R-1/2ST__HLF | 20.0               | 18.4    | 14.0    | 15.2    |
| 30                  | SFV30R-1/2ST__HLF | 20.5               | 18.9    | 14.5    | 15.7    |
| 31                  | SFV31R-1/2ST__HLF | 21.0               | 19.4    | 15.0    | 16.2    |
| 32                  | SFV32R-1/2ST__HLF | 21.5               | 19.9    | 15.5    | 16.7    |
| 33                  | SFV33R-1/2ST__HLF | 22.0               | 20.4    | 16.0    | 17.2    |
| 34                  | SFV34R-1/2ST__HLF | 22.5               | 20.9    | 16.5    | 17.7    |
| 35                  | SFV35R-1/2ST__HLF | 23.0               | 21.4    | 17.0    | 18.2    |

CAT. NO.

SFV (n) R - 1 ST \_ \_ \_ HLF

SERIES NAME

NO. OF CONTACTS

RIGHT ANGLE TYPE

FOR FPC/FFC, CONTACT DIRECTION

1. LOWER CONTACT TYPE
2. UPPER CONTACT TYPE

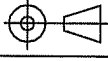
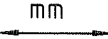
FOR AUTOMATIC MOUNTING (SMT)

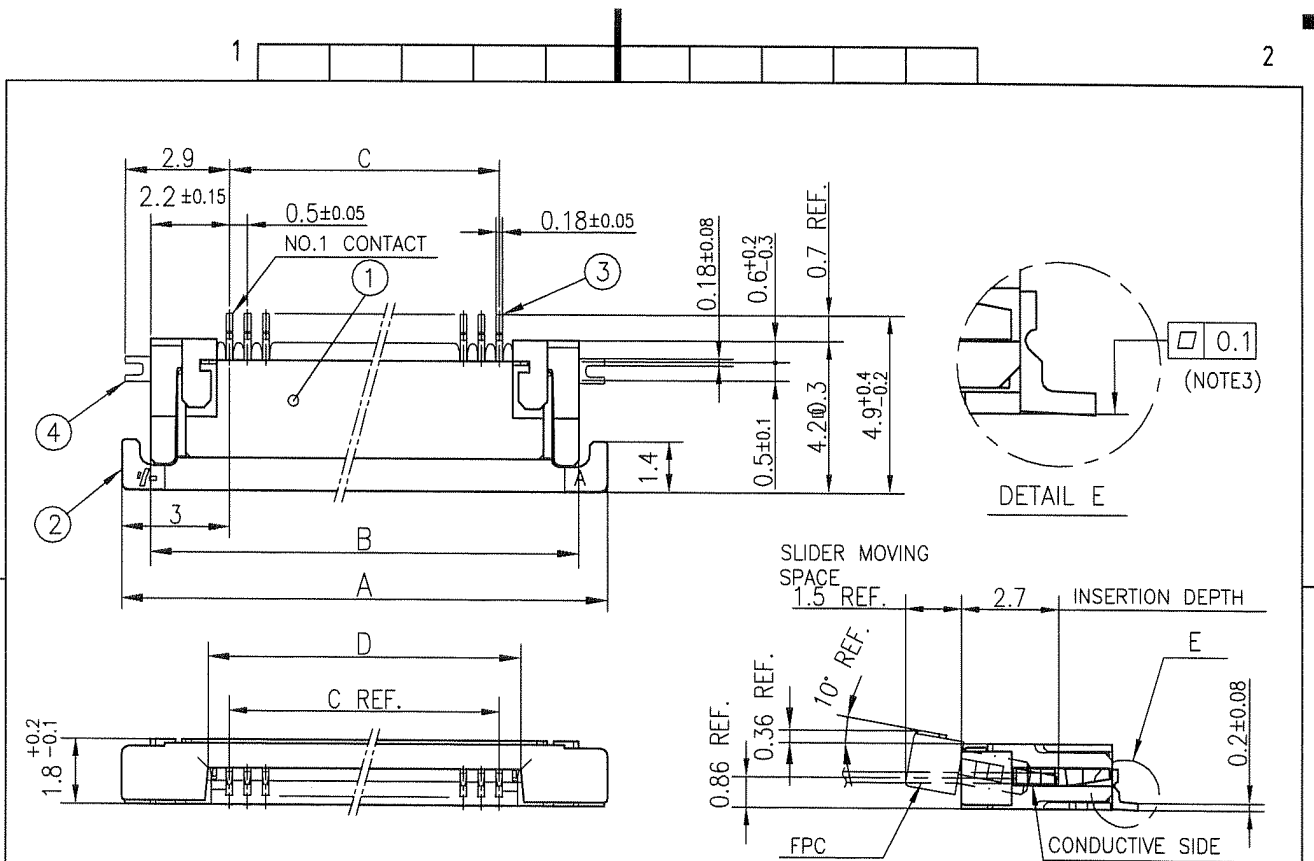
PACKAGE STYLE

HALOGEN and LEAD FREE

## NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPEs WITH AUTOMATIC MOUNTING (SMT).
2. SEE PART DRAWINGS FOR DIMENSIONS A~D.

|             |        |                |      |                                                                                          |                  |                                                                                                   |                                                                                     |                                                                                             |          |                          |              |  |
|-------------|--------|----------------|------|------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|--------------------------|--------------|--|
| mat'l. code |        |                |      | surface<br>ISO 1302 <input checked="" type="checkbox"/> tolerance<br>ISO 406<br>ISO 1101 |                  | projection<br> |                                                                                     | product family<br>58EF                                                                      |          | CODE<br>JP               |              |  |
| ltr         | ecn no | dr             | date | tolerances, unless otherwise specified                                                   |                  |                |                                                                                     | title<br>CAT. NO. TABLE FOR 0.5 mm CONTACT SPACING CONNECTOR (Cat. No. : SFV__R-1/2ST__HLF) |          |                          |              |  |
| A           |        |                |      | angles                                                                                   | linear           | mm                                                                                                |                                                                                     |                                                                                             |          |                          |              |  |
|             |        |                |      |                                                                                          |                  | scale $\times$                                                                                    |                                                                                     |                                                                                             |          |                          |              |  |
|             |        |                |      | dr                                                                                       | <i>S. Mithal</i> | 2011-2-10                                                                                         |  |                                                                                             | dwg no   |                          | sheet 2 of 9 |  |
|             |        |                |      | enr                                                                                      | <i>S. Mithal</i> | 2011-2-10                                                                                         |                                                                                     |                                                                                             |          |                          | size         |  |
|             |        |                |      | chr                                                                                      | <i>Y. Fomali</i> | 2011-2-10                                                                                         |                                                                                     |                                                                                             | 10117320 |                          | A4           |  |
|             |        |                |      | appd                                                                                     | <i>M. Chinn</i>  | Feb 10/11                                                                                         |                                                                                     |                                                                                             |          |                          |              |  |
| sheet index |        | revision sheet |      |                                                                                          |                  |                                                                                                   |                                                                                     | type                                                                                        |          | Product Customer Drawing |              |  |
|             |        |                |      |                                                                                          |                  |                                                                                                   |                                                                                     |                                                                                             |          | Rev. A                   |              |  |

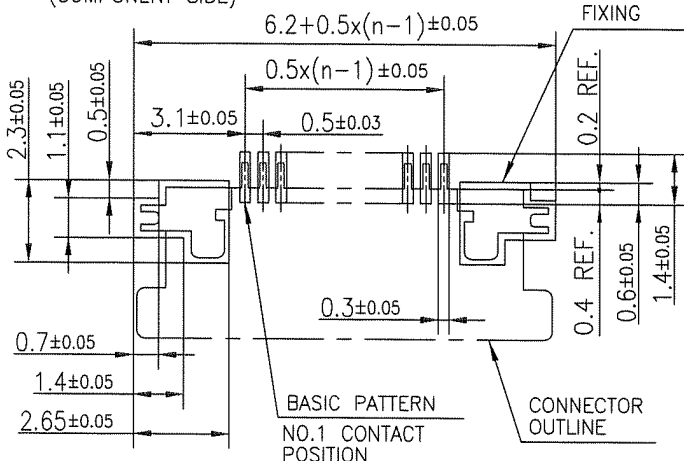


| PT. NO. | PARTS NAME     | MATERIAL                                             | Q'TY | NOTE                                                       |
|---------|----------------|------------------------------------------------------|------|------------------------------------------------------------|
| 1       | HOUSING        | 13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0)      | 1    | COLOR : BLACK (HALOGEN FREE)                               |
|         |                | 4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0) |      |                                                            |
| 2       | SLIDER         | PPS RESIN GLASS REINFORCED (UL94V-0)                 | 1    | COLOR : BLACK (HALOGEN FREE)                               |
| 3       | CONTACT        | PHOSPHOR BRONZE                                      | n    | PLATING : MATTE PURE TIN<br>Ni UNDER PLATED<br>(LEAD FREE) |
| 4       | MOUNTING PLATE |                                                      | 2    |                                                            |

RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)

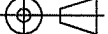
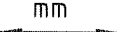
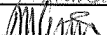
PATTERN FOR  
MOUNTING PLATE  
FIXING

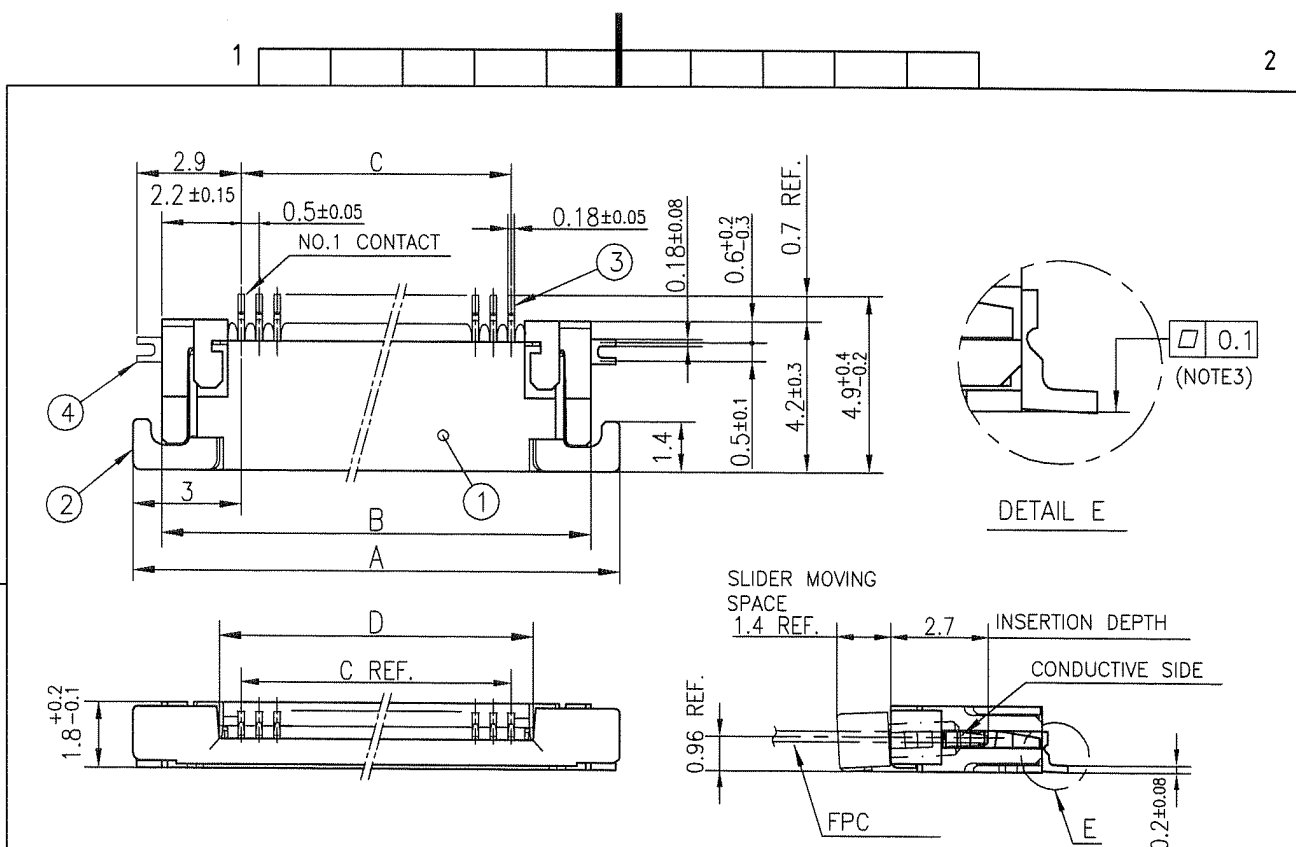
n : NO. OF CONTACTS



#### NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPS WITH AUTOMATIC MOUNTING (SMT).
2. THIS PRODUCT IS LOWER CONTACT TYPE CONNECTOR.
3. FLATNESS OF CONTACT TERMINAL AND MOUNTING PLATE MUST BE WITHIN TOLERANCE IN E PORTION DETAILED DRAWING.
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<br>ISO 1302 ✓                 |                                                                                     | tolerance<br>ISO 406<br>ISO 1101 |           | projection<br> |                               | product family<br>58EF                                                                               |  |  |  | CODE<br>JP |           |
| ltr         | ecn no | dr             | date | tolerances unless otherwise specified |                                                                                     |                                  |           |                |                               | title<br>CONNECTOR USED FOR FPC<br>WITH 0.5 mm CONTACT SPACING<br>(Cat No. : SFV__R-1ST__HLF)        |  |  |  |            |           |
| A           |        |                |      | angles                                |                                                                                     | linear                           |           |                                                                                                   |                               |                                                                                                      |  |  |  |            |           |
|             |        |                |      |                                       |                                                                                     |                                  |           | scale $\propto$                                                                                   |                               | <div><div>FCI</div><div>dwg no<br/>10117320</div><div>sheet 3 of 9</div><div>size<br/>A4</div></div> |  |  |  |            |           |
|             |        |                |      | dr                                    | S. W. H. L. F.                                                                      |                                  | 2011-2-10 |                                                                                                   |                               |                                                                                                      |  |  |  |            |           |
|             |        |                |      | engr                                  | S. W. H. L. F.                                                                      |                                  | 2011-2-10 |                                                                                                   |                               |                                                                                                      |  |  |  |            |           |
|             |        |                |      | chr                                   | Y. Ramadon                                                                          |                                  | 2011-2-10 |                                                                                                   |                               |                                                                                                      |  |  |  |            |           |
|             |        |                |      | appd                                  |  |                                  | Feb 10 11 |                                                                                                   | type Product Customer Drawing |                                                                                                      |  |  |  |            |           |
| sheet index |        | revision sheet |      |                                       |                                                                                     |                                  |           |                                                                                                   |                               |                                                                                                      |  |  |  |            | Rev.<br>A |

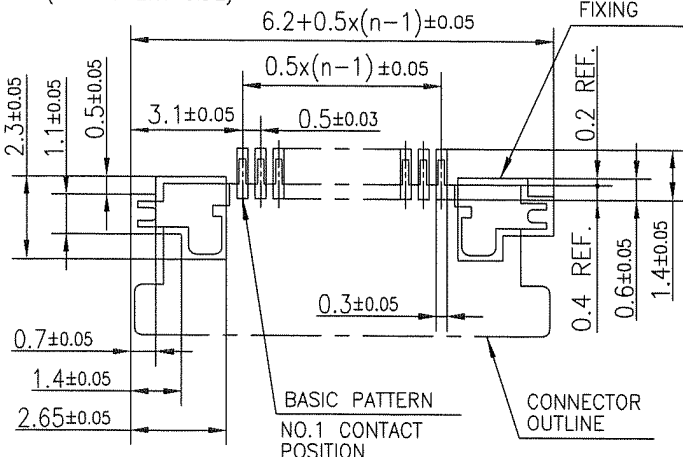


| PT. NO. | PARTS NAME     | MATERIAL                                                                                                | Q'TY | NOTE                                                       |
|---------|----------------|---------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------|
| 1       | HOUSING        | 13~35pin : LCP RESIN GLASS REINFORCED (UL94V-0)<br>4~12pin : POLYAMIDE RESIN GLASS REINFORCED (UL94V-0) | 1    | COLOR : BLACK (HALOGEN FREE)                               |
| 2       | SLIDER         | PPS RESIN GLASS REINFORCED (UL94V-0)                                                                    | 1    | COLOR : BLACK (HALOGEN FREE)                               |
| 3       | CONTACT        | PHOSPHOR BRONZE                                                                                         | n    | PLATING : MATTE PURE TIN<br>NI UNDER PLATED<br>(LEAD FREE) |
| 4       | MOUNTING PLATE |                                                                                                         | 2    |                                                            |

RECOMMENDED PC BOARD LAYOUT  
(COMPONENT SIDE)

PATTERN FOR  
MOUNTING PLATE  
FIXING

n : NO. OF CONTACTS



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

|             |  |  |  |                     |  |                                  |  |            |  |                                                                                                |  |                          |  |
|-------------|--|--|--|---------------------|--|----------------------------------|--|------------|--|------------------------------------------------------------------------------------------------|--|--------------------------|--|
| mat'l. code |  |  |  | surface<br>ISO 1302 |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection |  | product family<br>58EF                                                                         |  | CODE<br>JP               |  |
| ltr         |  |  |  | ecn no              |  | dr                               |  | date       |  | title<br>CONNECTOR USED FOR FPC<br>WITH 0.5 mm CONTACT SPACING<br>(Cat. No. : SFV__R-2ST__HLF) |  |                          |  |
| A           |  |  |  |                     |  |                                  |  |            |  | mm                                                                                             |  |                          |  |
|             |  |  |  | angles              |  | linear                           |  | scale      |  | X                                                                                              |  |                          |  |
|             |  |  |  | dr                  |  | S. Nishida                       |  | 2011-2-10  |  | dwg no                                                                                         |  | sheet 4 of 9             |  |
|             |  |  |  | engr                |  | S. Nishida                       |  | 2011-2-10  |  | 10117320                                                                                       |  | size<br>A4               |  |
|             |  |  |  | chr                 |  | Y. Kamada                        |  | 2011-2-10  |  | type                                                                                           |  | Product Customer Drawing |  |
|             |  |  |  | appd                |  | M. Arita                         |  | Feb 10/11  |  |                                                                                                |  |                          |  |
| sheet index |  |  |  | revision sheet      |  |                                  |  |            |  |                                                                                                |  | Rev.<br>A                |  |

## CAT. NO. &amp; DIMENSIONS

| NO. OF CONTACTS (n) | CAT. NO.          | DIMENSIONS (NOTE3) |         |         |
|---------------------|-------------------|--------------------|---------|---------|
|                     |                   | F MAX.             | G ± 0.3 | H ± 0.1 |
| 4                   | SFV4R-1/2STE9HLF  | 22.4               | 16      | —       |
| 5                   | SFV5R-1/2STE9HLF  | 22.4               | 16      | —       |
| 6                   | SFV6R-1/2STE9HLF  | 22.4               | 16      | —       |
| 7                   | SFV7R-1/2STE9HLF  | 30.4               | 24      | —       |
| 8                   | SFV8R-1/2STE9HLF  | 30.4               | 24      | —       |
| 9                   | SFV9R-1/2STE9HLF  | 30.4               | 24      | —       |
| 10                  | SFV10R-1/2STE9HLF | 30.4               | 24      | —       |
| 11                  | SFV11R-1/2STE9HLF | 30.4               | 24      | —       |
| 12                  | SFV12R-1/2STE9HLF | 30.4               | 24      | —       |
| 13                  | SFV13R-1/2STE9HLF | 30.4               | 24      | —       |
| 14                  | SFV14R-1/2STE9HLF | 30.4               | 24      | —       |
| 15                  | SFV15R-1/2STE9HLF | 30.4               | 24      | —       |
| 16                  | SFV16R-1/2STE9HLF | 30.4               | 24      | —       |
| 17                  | SFV17R-1/2STE9HLF | 30.4               | 24      | —       |
| 18                  | SFV18R-1/2STE9HLF | 30.4               | 24      | —       |
| 19                  | SFV19R-1/2STE9HLF | 30.4               | 24      | —       |
| 20                  | SFV20R-1/2STE9HLF | 30.4               | 24      | —       |
| 21                  | SFV21R-1/2STE9HLF | 30.4               | 24      | —       |
| 22                  | SFV22R-1/2STE9HLF | 30.4               | 24      | —       |
| 23                  | SFV23R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 24                  | SFV24R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 25                  | SFV25R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 26                  | SFV26R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 27                  | SFV27R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 28                  | SFV28R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 29                  | SFV29R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 30                  | SFV30R-1/2STE9HLF | 38.4               | 32      | 28.4    |
| 31                  | SFV31R-1/2STE9HLF | 50.4               | 44      | 40.4    |
| 32                  | SFV32R-1/2STE9HLF | 50.4               | 44      | 40.4    |
| 33                  | SFV33R-1/2STE9HLF | 50.4               | 44      | 40.4    |
| 34                  | SFV34R-1/2STE9HLF | 50.4               | 44      | 40.4    |
| 35                  | SFV35R-1/2STE9HLF | 50.4               | 44      | 40.4    |

CAT. NO.

SFV (n) R - 1 ST E9 HLF

SERIES NAME

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 FOR E9 (500pcs PER REEL)

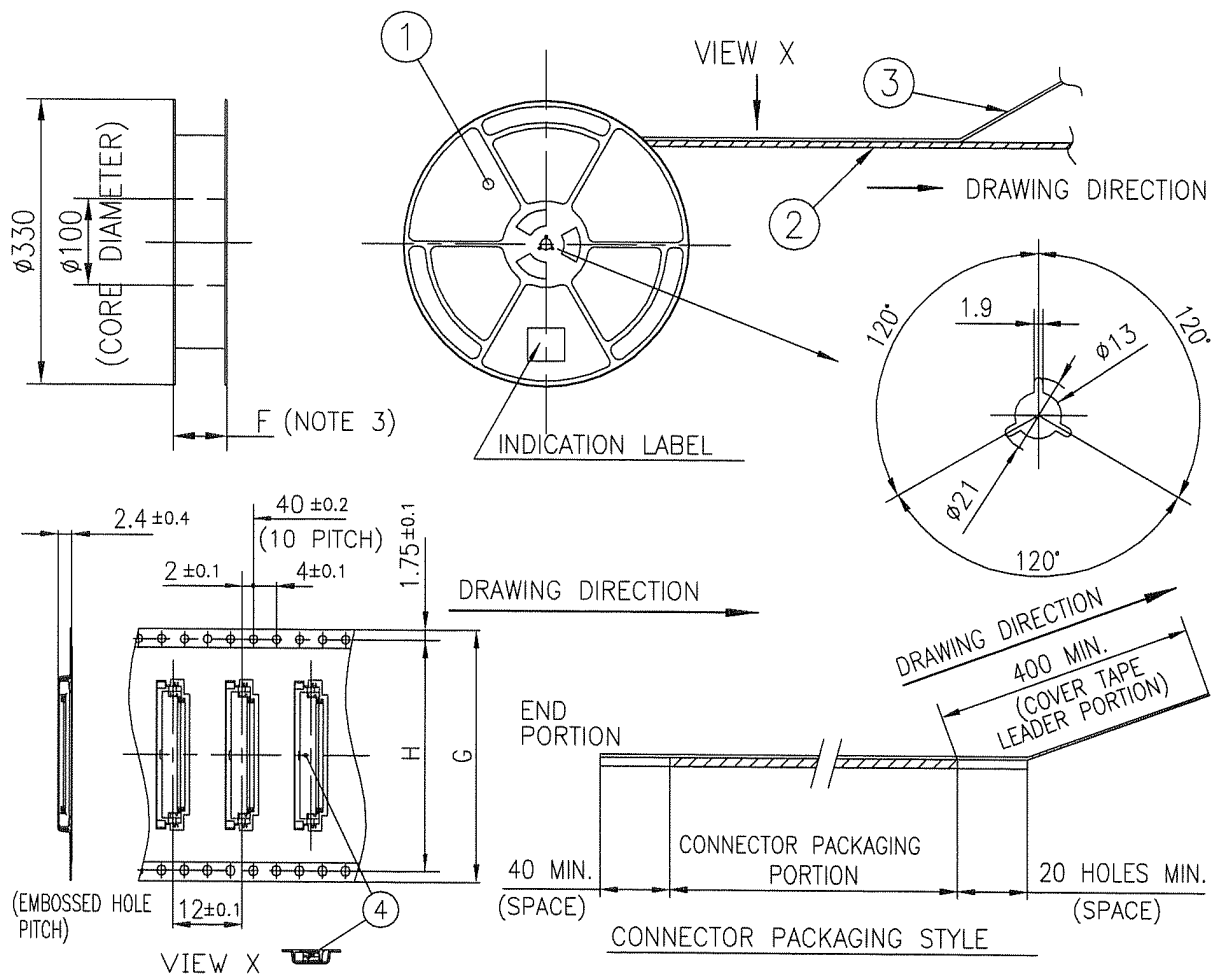
HALOGEN AND LEAD FREE

## NOTES

1. THIS PRODUCT IS THE CONNECTOR USED FOR FPC AND COPES WITH AUTOMATIC MOUNTING (SMT).
2. THIS CATALOG NO. INDICATES PLASTIC TAPE PACKAGED CONNECTOR.
3. SEE PART DRAWINGS FOR DIMENSIONS F~H.

|             |                |    |      |                                                                             |        |                                  |      |                |  |                                                                                                                         |  |            |  |
|-------------|----------------|----|------|-----------------------------------------------------------------------------|--------|----------------------------------|------|----------------|--|-------------------------------------------------------------------------------------------------------------------------|--|------------|--|
| mat'l. code |                |    |      | surface<br>ISO 1302 <input checked="" type="checkbox"/> ISO 406<br>ISO 1101 |        | tolerance<br>ISO 406<br>ISO 1101 |      | projection<br> |  | product family<br>58EF                                                                                                  |  | CODE<br>JP |  |
| ltr         | ecn no         | dr | date | tolerances unless otherwise specified                                       |        | mm                               |      | scale $\times$ |  | title<br>CAT. NO. TABLE FOR PLASTIC TAPE PACKAGED<br>0.5 mm CONTACT SPACING CONNECTOR<br>(Cat. No. : SFV__R-1/2STE9HLF) |  |            |  |
| A           |                |    |      | angles                                                                      | linear |                                  |      |                |  | dwg no<br>10117320                                                                                                      |  |            |  |
|             |                |    |      | dr                                                                          | engr   | chr                              | appd | FIS            |  | sheet 5 of 9                                                                                                            |  | size<br>A4 |  |
|             |                |    |      |                                                                             |        |                                  |      |                |  | type Product Customer Drawing                                                                                           |  | Rev.<br>A  |  |
| sheet index | revision sheet |    |      |                                                                             |        |                                  |      |                |  |                                                                                                                         |  |            |  |

TOLERANCES  
UNLESS OTHERWISE SPECIFIED :  $\pm 5$ , ANGLE  $\pm 5^\circ$



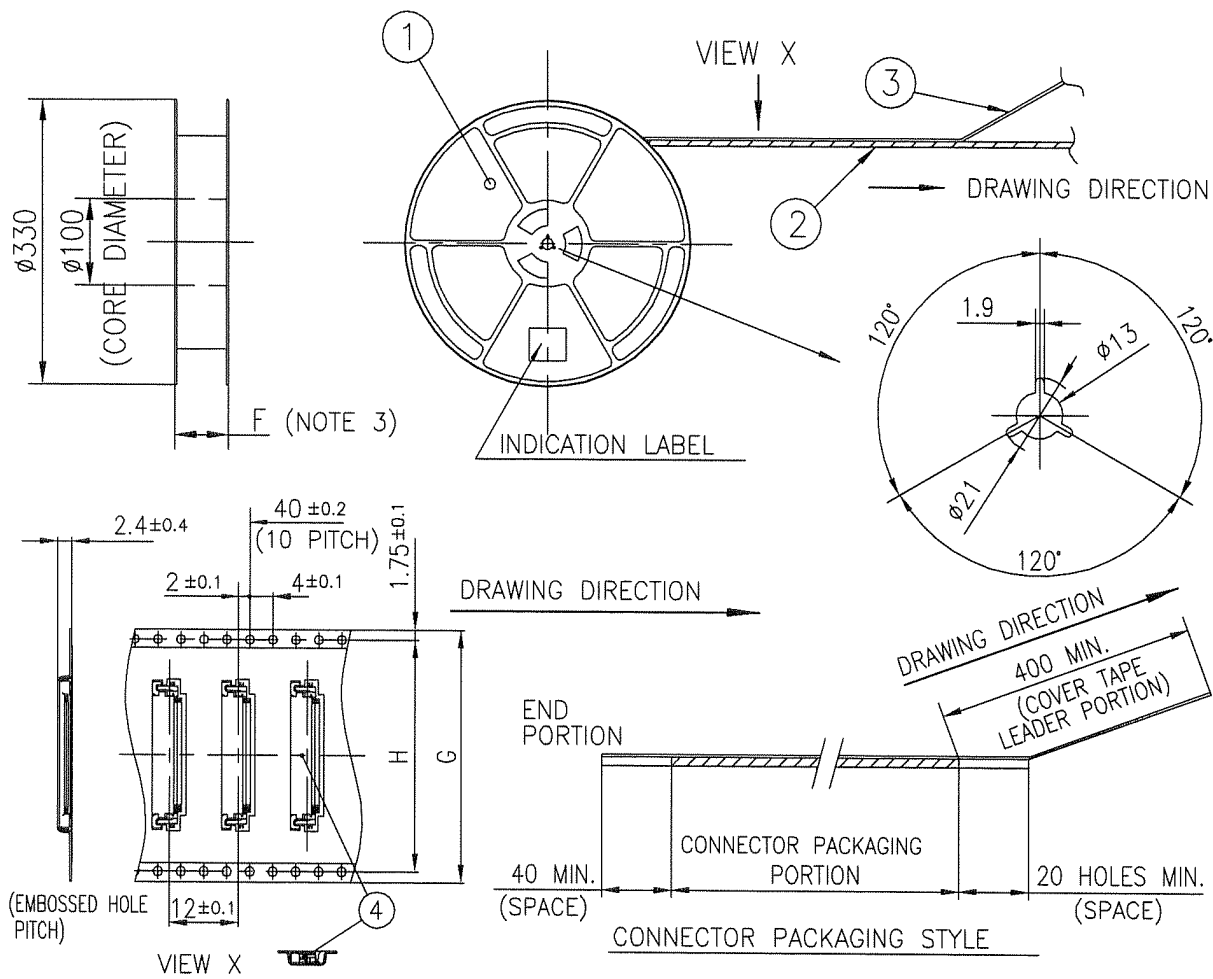
| PT. NO. | PARTS NAME            | CAT. NO.        | MATERIAL          | Q'TY  | NOTE                         |
|---------|-----------------------|-----------------|-------------------|-------|------------------------------|
| 1       | REEL                  | _____           | POLYSTYRENE       | 1     | COLOR : BLACK                |
| 2       | PLASTIC (EMBOSS) TAPE | _____           | A-PET             | _____ | COLOR : TRANSPARENCY (CLEAR) |
| 3       | COVER                 | _____           | POLYESTER         | _____ | COLOR : TRANSPARENCY (CLEAR) |
| 4       | CONNECTOR             | SFV__R-1ST__HLF | SEE ATTACHED DWG. | 500   | LOWER CONTACT TYPE           |

## NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
3. F DIMENSION IS PORTION OF THE CORE.

[illegible]

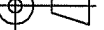
TOLERANCES  
UNLESS OTHERWISE SPECIFIED :  $\pm 5$ , ANGLE  $\pm 5^\circ$



| PT. NO. | PARTS NAME            | CAT. NO.        | MATERIAL          | Q'TY  | NOTE                         |
|---------|-----------------------|-----------------|-------------------|-------|------------------------------|
| 1       | REEL                  | _____           | POLYSTYRENE       | 1     | COLOR : BLACK                |
| 2       | PLASTIC (EMBOSS) TAPE | _____           | A-PET             | _____ | COLOR : TRANSPARENCY (CLEAR) |
| 3       | COVER                 | _____           | POLYESTER         | _____ | COLOR : TRANSPARENCY (CLEAR) |
| 4       | CONNECTOR             | SFV__R-2ST__HLF | SEE ATTACHED DWG. | 500   | LOWER CONTACT TYPE           |

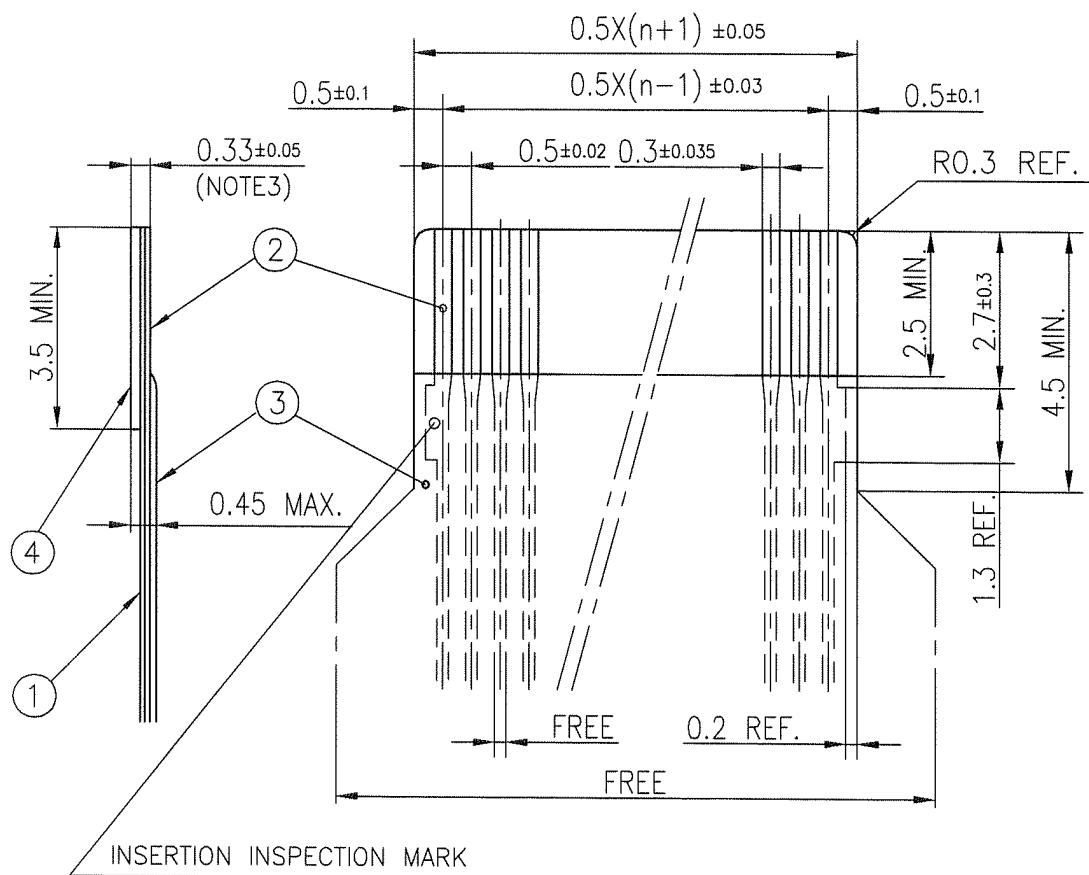
## NOTES

1. THIS IS PLASTIC TAPE PACKAGED CONNECTOR USED FOR FPC AND CYPES WITH AUTOMATIC MOUNTING (SMT).
2. SEE JIS C 0806 (PACKING OF ELECTRONIC COMPONENTS ON CONTINUOUS TAPES (SURFACE MOUNTING DEVICES)) FOR SHAPE AND DIMENSIONS OF PLASTIC (EMBOSS) TAPE AND REEL.
3. F DIMENSION IS PORTION OF THE CORE.

|             |        |                |      |                                                                                                                                                                                             |                     |                                                                                                |  |                                                                                                    |  |  |  |         |        |
|-------------|--------|----------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|--|--|---------|--------|
| mat'l. code |        |                |      | surface <input checked="" type="checkbox"/> ISO 1302 <input checked="" type="checkbox"/> tolerance <input checked="" type="checkbox"/> ISO 406 <input checked="" type="checkbox"/> ISO 1101 |                     | projection  |  | product family 58EF                                                                                |  |  |  | CODE JP |        |
| ltr         | ecn no | dr             | date | tolerances, unless otherwise specified                                                                                                                                                      |                     |             |  | title<br>PLASTIC TAPE PACKAGED<br>0.5 mm CONTACT SPACING CONNECTOR<br>(Cat. No. : SFV__R-2STE9HLF) |  |  |  |         |        |
| A           |        |                |      | angles                                                                                                                                                                                      | linear              |                                                                                                |  |                                                                                                    |  |  |  |         |        |
|             |        |                |      |                                                                                                                                                                                             |                     | scale $\times$                                                                                 |  | dwg no sheet 7 of 9 size<br>10117320 A4                                                            |  |  |  |         |        |
|             |        |                |      | dr                                                                                                                                                                                          | S. Mithu 2011-2-10  |             |  |                                                                                                    |  |  |  |         |        |
|             |        |                |      | engr                                                                                                                                                                                        | S. Mithu 2011-2-10  |                                                                                                |  |                                                                                                    |  |  |  |         |        |
|             |        |                |      | chr                                                                                                                                                                                         | V. Ramada 2011-2-10 |                                                                                                |  |                                                                                                    |  |  |  |         |        |
|             |        |                |      | appd                                                                                                                                                                                        | M. Mithu 2011-2-10  |                                                                                                |  |                                                                                                    |  |  |  |         |        |
| sheet index |        | revision sheet |      |                                                                                                                                                                                             |                     |                                                                                                |  | type Product Customer Drawing                                                                      |  |  |  |         | Rev. A |

## RECOMMENDED CABLE (FPC)

n : NO. OF CONTACTS



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

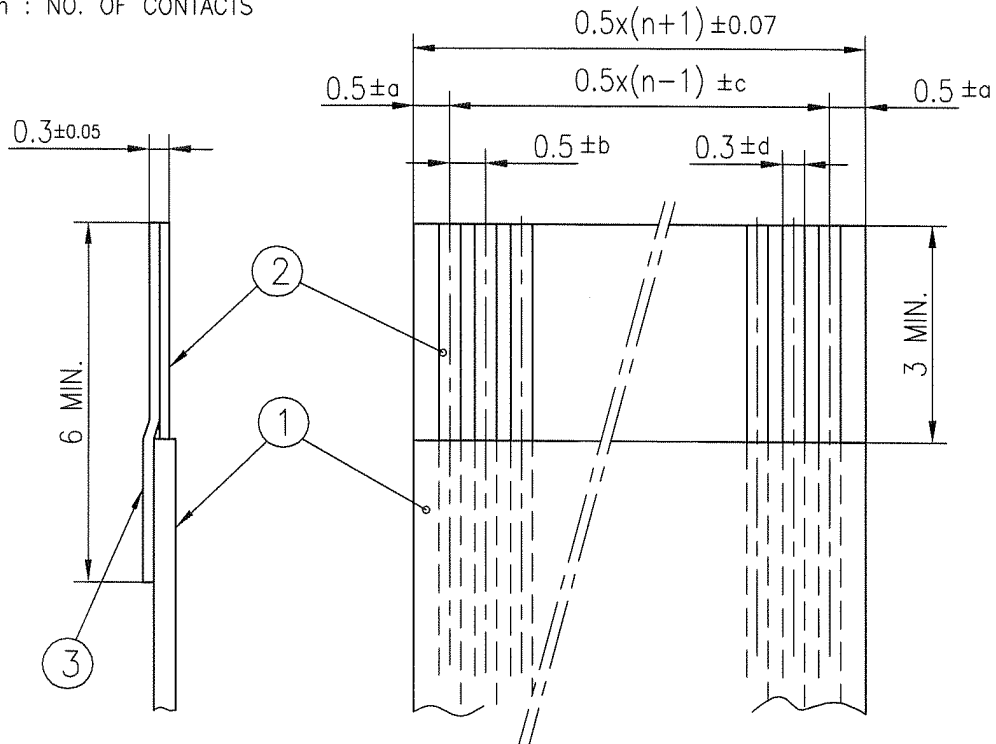
## NOTES

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<br>ISO 1302 <input checked="" type="checkbox"/> ISO 406<br>ISO 1101 |  | tolerance<br>ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>58EF                                    |  | CODE<br>JP |  |
| ltr         |  |  |  | ecn no                                                                      |  | dr                               |  | date           |  | title<br>RECOMMENDED CABLE<br>(Cat. No. : SFV__R-1/2ST__) |  |            |  |
| A           |  |  |  |                                                                             |  |                                  |  |                |  |                                                           |  |            |  |
|             |  |  |  | angles                                                                      |  | linear                           |  | mm             |  |                                                           |  |            |  |
|             |  |  |  |                                                                             |  |                                  |  | scale $\times$ |  |                                                           |  |            |  |
|             |  |  |  | dr                                                                          |  | S. Watarai                       |  | 2011-2-10      |  | dwg no                                                    |  |            |  |
|             |  |  |  | enr                                                                         |  | S. Watarai                       |  | 2011-2-10      |  | sheet 8 of 9                                              |  |            |  |
|             |  |  |  | chr                                                                         |  | Y. Komatsu                       |  | 2011-2-10      |  | 10112793                                                  |  |            |  |
|             |  |  |  | appd                                                                        |  | M. Ohtsuka                       |  | Feb 01/11      |  | size<br>A4                                                |  |            |  |
| sheet index |  |  |  | revision sheet                                                              |  |                                  |  |                |  | type Product Customer Drawing                             |  |            |  |
| D           |  |  |  |                                                                             |  |                                  |  |                |  | Rev.<br>A                                                 |  |            |  |

## RECOMMENDED CABLE (FFC)

n : NO. OF CONTACTS



| KIND OF FFC (NOTE3) | DIMENSIONAL TOLERANCE |       |       |        |
|---------------------|-----------------------|-------|-------|--------|
|                     | a                     | b     | c     | d      |
| 1                   | ±0.07                 | ±0.04 | ±0.05 | ±0.02  |
| 2                   | ±0.1                  | ±0.03 | ±0.03 | ±0.025 |

| PT. NO. | PARTS NAME      | MATERIAL                            | NOTE                                |
|---------|-----------------|-------------------------------------|-------------------------------------|
| 1       | INSULATOR       | FLAME RESISTING POLYESTER OR EQUAL  |                                     |
| 2       | CONDUCTOR       | COPPER FOIL:THICKNESS<br>35 OR 50um | PLATING : TIN OR SOLDER<br>1um MIN. |
| 3       | SUPPORTING TAPE | FLAME RESISTING POLYESTER OR EQUAL  |                                     |

## NOTES

1. NO BURR AT EACH PORTION.
2. NO PEELING IN COMMON USE.
3. EITHER KIND1 OR KIND2 OF FFC CAN ACCEPT DIMENSIONAL TOLERANCE a,b,c AND d.

|             |  |                |  |                                                                             |  |                |  |                                                             |  |            |  |
|-------------|--|----------------|--|-----------------------------------------------------------------------------|--|----------------|--|-------------------------------------------------------------|--|------------|--|
| mat'l. code |  |                |  | surface<br>ISO 1302 <input checked="" type="checkbox"/> ISO 406<br>ISO 1101 |  | projection<br> |  | product family<br>58EF                                      |  | CODE<br>JP |  |
| ltr<br>A    |  |                |  | tolerances, unless otherwise specified                                      |  |                |  | title<br>RECOMMENDED CABLE<br>(Cat. No. : SFV__R-1/2ST__LF) |  |            |  |
| ecn no      |  |                |  | angles                                                                      |  | mm             |  | dwg no<br>10117320                                          |  |            |  |
| dr          |  |                |  | linear                                                                      |  | scale $\times$ |  | sheet 9 of 9                                                |  |            |  |
| date        |  |                |  | dr<br>S. W. Thakur 2011-2-10                                                |  |                |  | size<br>A4                                                  |  |            |  |
|             |  |                |  | enr<br>S. W. Thakur 2011-2-10                                               |  |                |  | type Product Customer Drawing                               |  |            |  |
|             |  |                |  | chr<br>Y. Kamode 2011-2-10                                                  |  |                |  | Rev.<br>A                                                   |  |            |  |
|             |  |                |  | appd<br>M. Anis Feb 10/11                                                   |  |                |  |                                                             |  |            |  |
| sheet index |  | revision sheet |  |                                                                             |  |                |  |                                                             |  |            |  |