

# SPECIFICATIONS

## \* Model Identifications

| Model Code   | Customer Code |
|--------------|---------------|
| 4AI20-CMXX06 |               |

|                                                                                          |                                                                            |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Signed for/on behalf of us.<br>By: R&D manager Mr.<br><br>-----<br>Date:       .       . | Signed for/on behalf of you.<br>By:<br><br>-----<br>Date :       .       . |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|

This Specifications will be valid after the date of acceptance by both 'Dreamus' and the customer. Without formal request for updating by one of the involved parties, this Specifications will be valid until the end of usage of the relevant products by the customer.

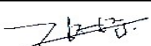


## 1. REVISION RECORD

| Rev. No | DATE         | DESCRIPTION         | By                                                                                  | Chk.                                                                                | App.                                                                                |
|---------|--------------|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0       | 1. Nov. 2021 | R&D and ECO Release |  |  |  |
| 1       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 2       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 3       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 4       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 5       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 6       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 7       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 8       |              |                     |                                                                                     |                                                                                     |                                                                                     |
| 9       |              |                     |                                                                                     |                                                                                     |                                                                                     |

## 2. ATTACHMENTS

- 2-1 HARNESS WIRE DRAWING
- 2-2 CABLE DRAWING
- 2-3 HOUSING/ CONTACT DRAWING

| DESIGNED     |                                                                                     | CHECKED      |                                                                                     | APPROVED     |                                                                                       |
|--------------|-------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|
| 1. Nov. 2021 |  | 1. Nov. 2021 |  | 1. Nov. 2021 |  |

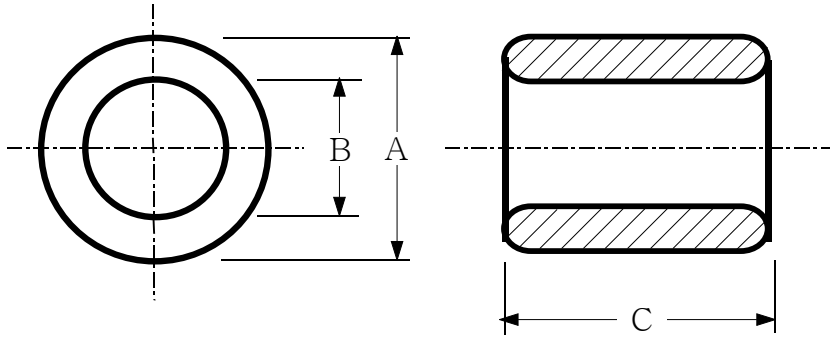


# SPECIFICATION

|           |  |           |                         |
|-----------|--|-----------|-------------------------|
| CUSTOMER  |  | PART NAME | FEERITE CORE (OP - 18C) |
| MODEL NO. |  | PART NO.  |                         |

## 1. Dimension

### 1. Dimension (UNIT:mm)



| TYPE       | DIMENSIONS IN (mm) |           |            | REMARK |
|------------|--------------------|-----------|------------|--------|
|            | A                  | B         | C          |        |
| OP - 18(C) | 18.2 ± 1.0         | 9.6 ± 1.0 | 12.0 ± 1.0 | FEELUX |

## 2. Material(core) Specification

| No. | CHARACTERISTIC          | SYMBOL             | CONDITION  | K-70            | Unit          |
|-----|-------------------------|--------------------|------------|-----------------|---------------|
| 1   | AC Initial Permeability | uiac               | f = 100MHz | 700             | -             |
| 2   | Saturation Flux Density | Bms                | 20 °C      | 280             | mT            |
|     |                         |                    |            | 170             | Gauss         |
| 3   | Residual Flux Density   | Brms               | 20 °C      | 15              | mT            |
|     |                         |                    |            | 100             | Gauss         |
| 4   | Relative Loss Factor    | $\tan \delta$ uiac | f = 100MHz | 0.3             | $\times 10^6$ |
| 5   | Coercive Force          | Hcms(Oe)           | -          | 24              |               |
| 6   | Curie Temperature       | Tc                 | -          | >110            | °C            |
| 7   | Electrical Resistivity  | p                  | -          | 10 <sup>6</sup> | Ω cm          |

|          |  |      |              |           |       |
|----------|--|------|--------------|-----------|-------|
| SPEC NO. |  | DATE | 2019. 12. 13 | SHEET NO. | 2 / 5 |
|----------|--|------|--------------|-----------|-------|

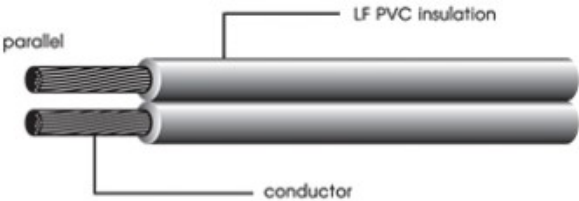
FEELUX

|    |                     |              |
|----|---------------------|--------------|
| 00 | APPLY THE MODEL : - | -            |
| NO | REVISION RECORD     | MANUFACTURER |

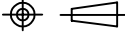
Product Description:

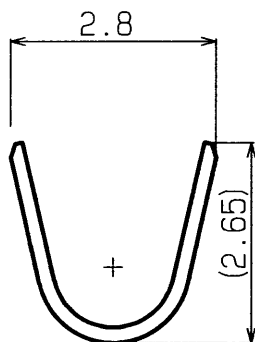
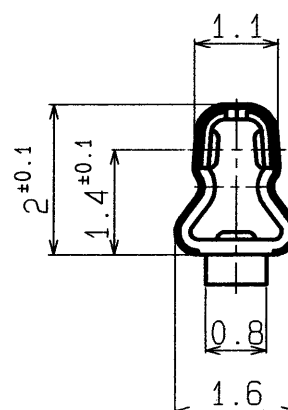
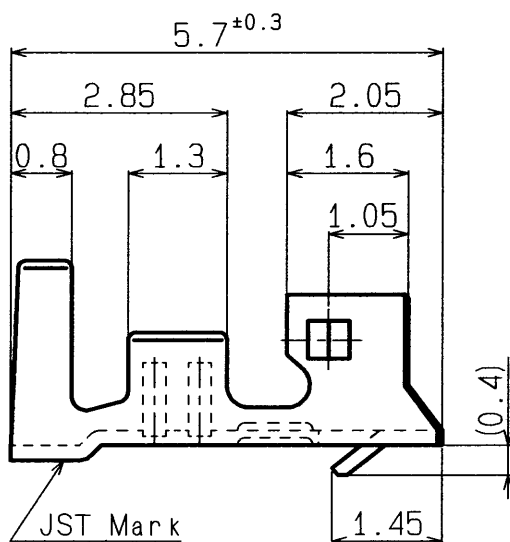
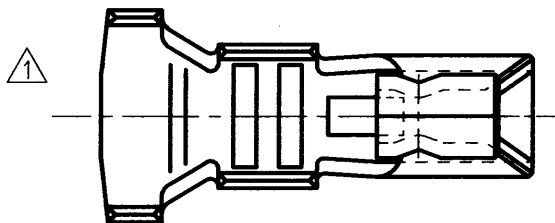
- OS-1 Tinned, Stranded copper conductor, 32-16 AWG
- Rated temperature: 80° C. Rated voltage: 300 V
- Pass VW-1 flame test.
- Resistant to acids, alkalines, moisture and fungus.
- Insulation : PVC / LF

Construction:

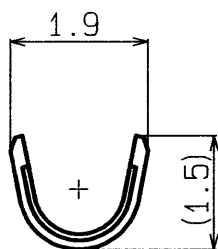


| UL Style<br>CUL Type        | Conductor |          | Core | Insulation Thickness | Overall Diameter (Approx.) | Standard Put-Up |
|-----------------------------|-----------|----------|------|----------------------|----------------------------|-----------------|
|                             | AWG       | No/mm    | No.  | mm                   | mm                         | M/roll          |
| UL 2468<br>CUL I A<br>(AWM) | 26        | 1/1.290  | 2    | 0.45                 | 1.40 x 2.90                | 610             |
|                             |           | 7/0.160  |      |                      | 1.40 x 3.40                |                 |
|                             |           | 7/0.160  |      |                      | 1.40 x 3.90                |                 |
|                             | 24        | 11/0.160 |      |                      | 1.50 x 3.10                |                 |
|                             |           | 7/0.203  |      |                      | 1.50 x 4.00                |                 |
|                             |           | 17/0.160 |      |                      | 1.60 x 3.20                |                 |
|                             | 18        | 7/0.404  |      |                      | 2.15 x 4.30                |                 |
|                             |           | 41/0.160 |      |                      | 2.10 x 4.20                |                 |

|          |   |                 |  |            |                                                                                     |                                   |          |             |
|----------|---|-----------------|--|------------|-------------------------------------------------------------------------------------|-----------------------------------|----------|-------------|
| MATERIAL | - | 4               |  | PROJECTION |  | TOLERANCES<br>UNLESS<br>SPECIFIED | TITLE    | Cable       |
|          |   | 3               |  | SCALE      | 1.000                                                                               |                                   |          |             |
|          |   | 2               |  | UNIT       | mm                                                                                  |                                   |          |             |
| REMARK   | - | 1               |  | DESIGN     | CHECKED                                                                             | APPROVED                          | PART NO. | UL 2468 #22 |
|          |   | 0               |  |            |                                                                                     |                                   |          |             |
|          |   | REVISION RECORD |  |            |                                                                                     |                                   |          |             |



INSULATION BARREL



WIRE BARREL

NOTE

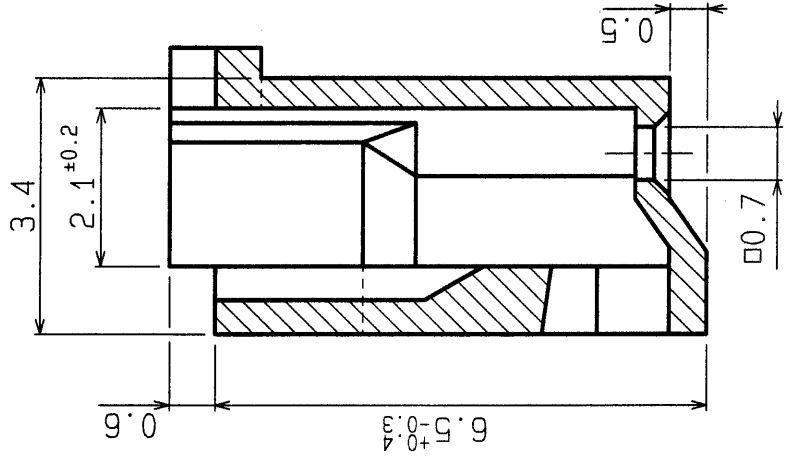
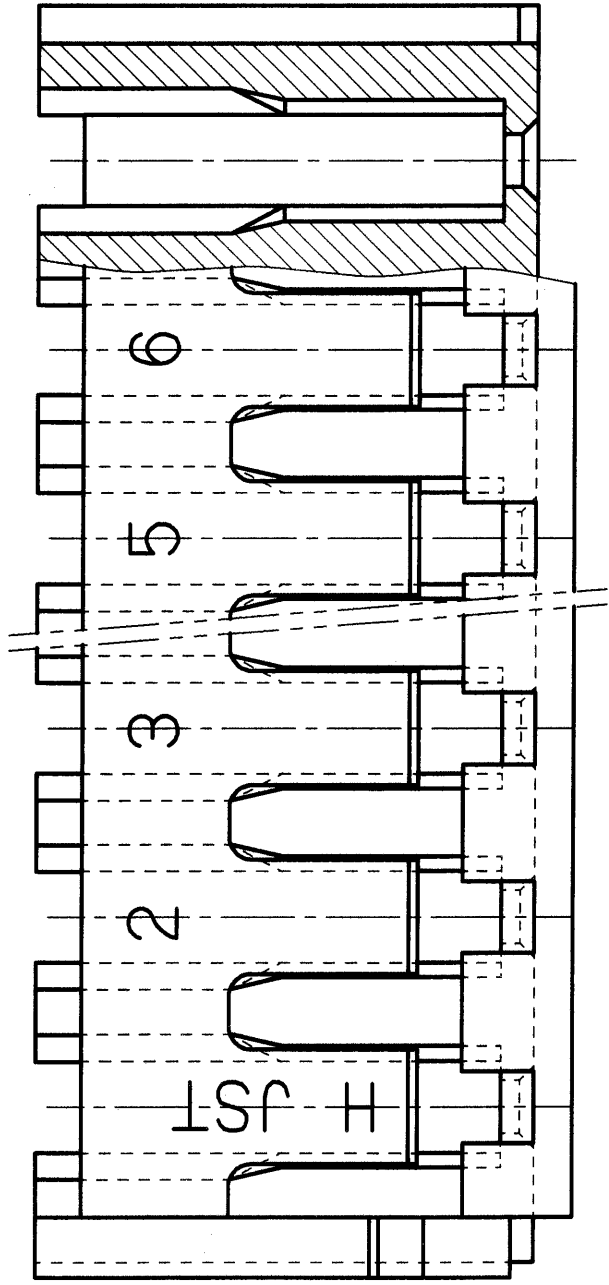
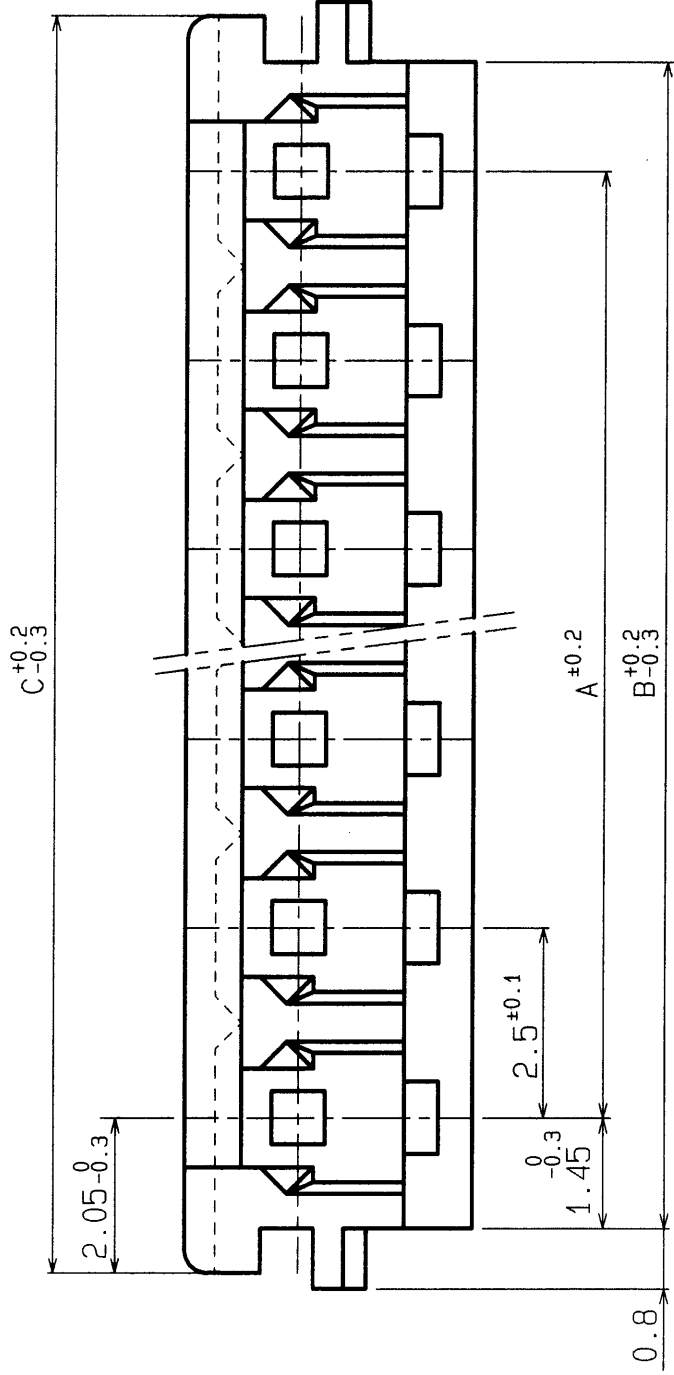
1. Unless otherwise specified,  
tolerances are  $\pm 0.3$ .

REVISIONS

R1. 1)' 96. 8. 26

2)Strip carrier is deleted. 3)C. A

|                 |                    |                         |               |                |                     |             |                |                 |
|-----------------|--------------------|-------------------------|---------------|----------------|---------------------|-------------|----------------|-----------------|
|                 |                    |                         |               |                |                     | REVISIONS   |                |                 |
|                 |                    |                         |               |                |                     |             |                |                 |
| CONTACT         |                    | PHOSPHOR BRONZE $t=0.2$ |               | TIN-PLATED     |                     |             |                |                 |
| No.             | NAME               | MATERIAL                |               | REMARKS        |                     |             |                |                 |
| J. S. T.        |                    |                         |               |                |                     | PART NAME   | EH CONNECTOR   |                 |
|                 |                    |                         |               |                |                     | PART No.    | SEH-001T-P0. 6 |                 |
| APPROVED BY<br> | CHECKED BY<br>S.S. | DRAWN BY<br>G. ASANO    | SCALE<br>free | PROJECTION<br> | DATE<br>MAY. 30 '95 | DRAWING No. |                | KRD - 5080-5 R1 |

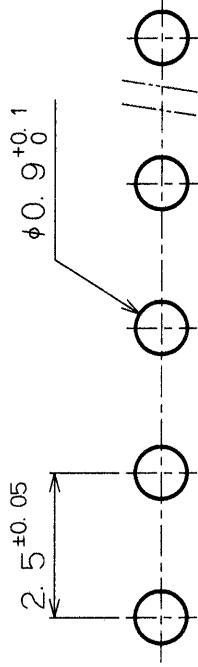
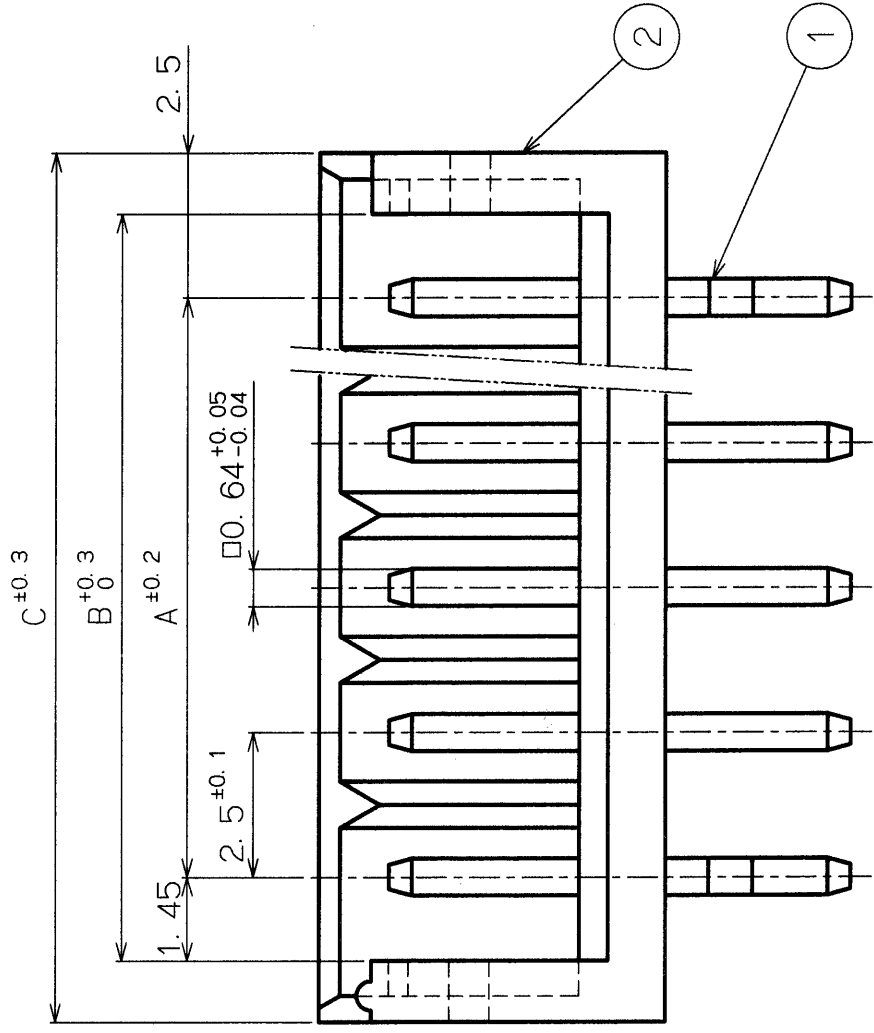
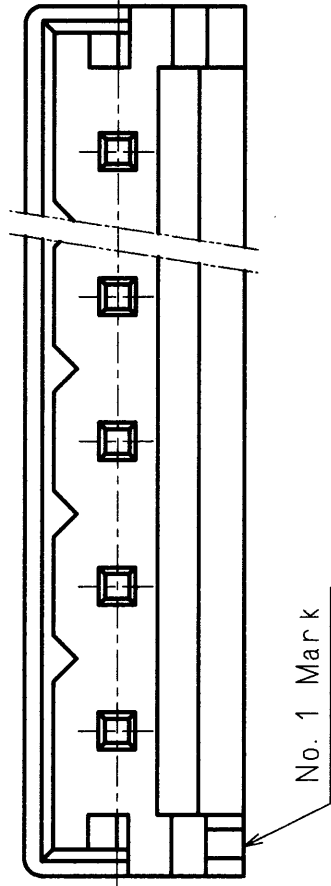


|          |      |      |      |
|----------|------|------|------|
| 15       | 35.0 | 37.9 | 39.1 |
| 14       | 32.5 | 35.4 | 36.6 |
| 13       | 30.0 | 32.9 | 34.1 |
| 12       | 27.5 | 30.4 | 31.6 |
| 11       | 25.0 | 27.9 | 29.1 |
| 10       | 22.5 | 25.4 | 26.6 |
| 9        | 20.0 | 22.9 | 24.1 |
| 8        | 17.5 | 20.4 | 21.6 |
| 7        | 15.0 | 17.9 | 19.1 |
| 6        | 12.5 | 15.4 | 16.6 |
| 5        | 10.0 | 12.9 | 14.1 |
| 4        | 7.5  | 10.4 | 11.6 |
| 3        | 5.0  | 7.9  | 9.1  |
| 2        | 2.5  | 5.4  | 6.6  |
| Circuits | A    | B    | C    |

NOTE

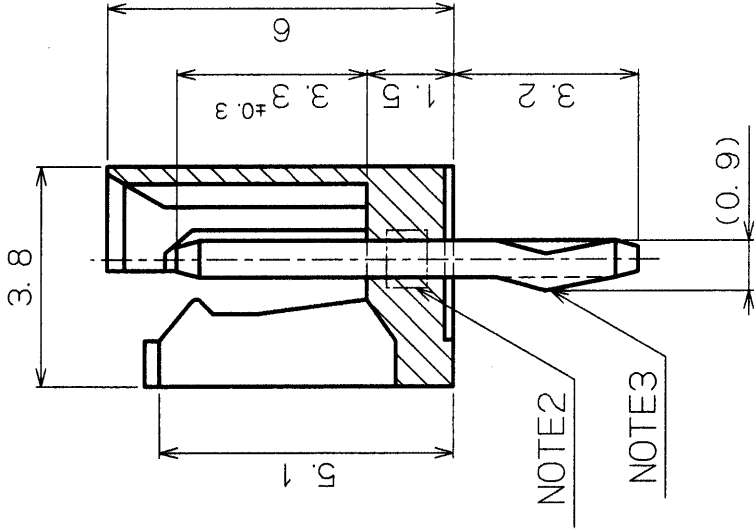
- 1. Unless otherwise specified, tolerances are 0<L≤3.0:±0.3
- 3. 0<L≤9.0:±0.4

|             |            |             |       |              |             |
|-------------|------------|-------------|-------|--------------|-------------|
| REVISIONS   |            | PART NAME   |       | EH CONNECTOR |             |
|             |            | PART No.    |       | EHR-( )      |             |
|             |            | DRAWING No. |       | KRD- 5081-3  |             |
| HOUSING     |            | 66NYLON     |       | UL94V-0      |             |
| No.         | NAME       | MATERIAL    |       | REMARKS      |             |
| J. S. T.    |            |             |       |              |             |
| APPROVED BY | CHECKED BY | DRAWN BY    | SCALE | PROJECTION   | DATE        |
| T-S         | S.S.       | C.ASANO     | free  | ⌀            | AUG. 26 '96 |



P. C. BOARD HOLE LAYOUT

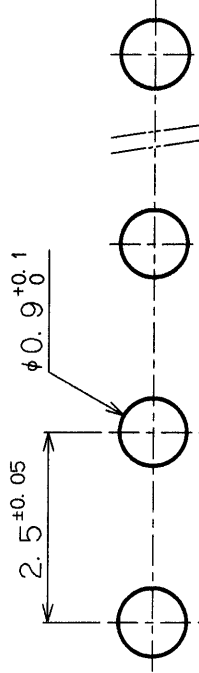
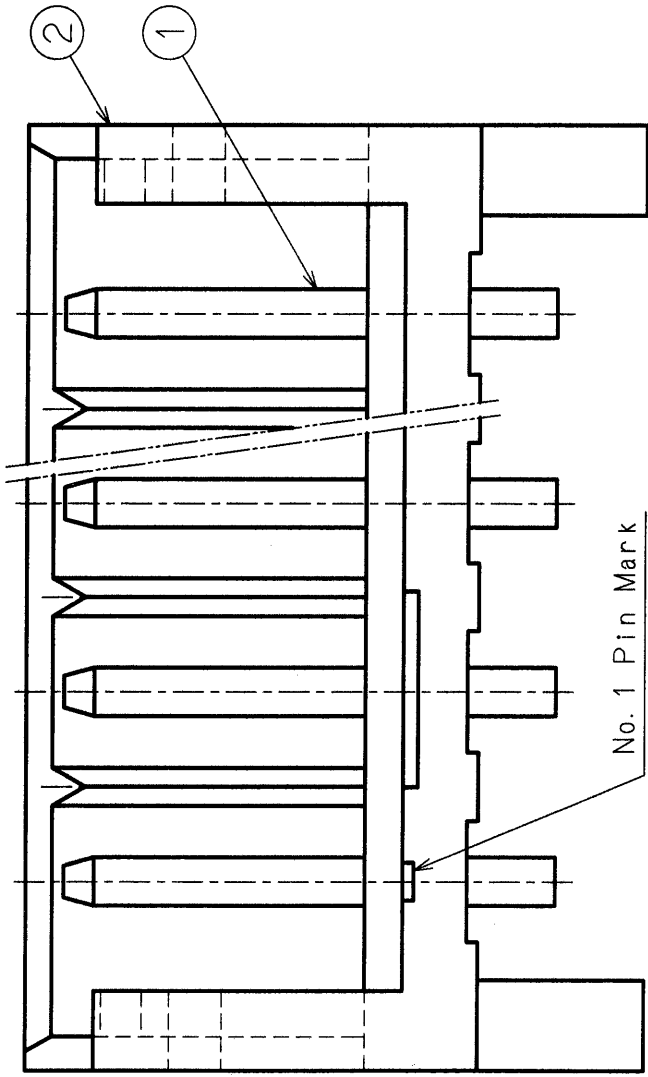
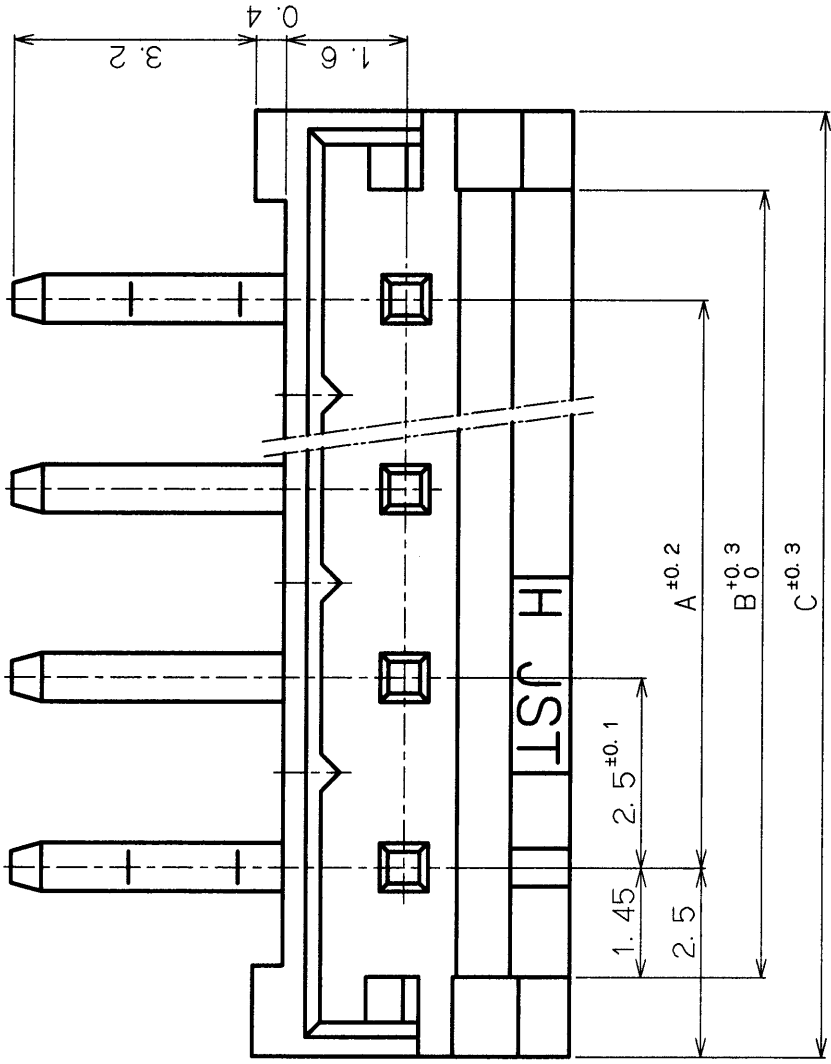
| Ctr-cults | A    | B    | C    |
|-----------|------|------|------|
| 3         | 5.0  | 7.9  | 10.0 |
| 4         | 7.5  | 10.4 | 12.5 |
| 5         | 10.0 | 12.9 | 15.0 |
| 6         | 12.5 | 15.4 | 17.5 |
| 7         | 15.0 | 17.9 | 20.0 |
| 8         | 17.5 | 20.4 | 22.5 |
| 9         | 20.0 | 22.9 | 25.0 |
| 10        | 22.5 | 25.4 | 27.5 |
| 11        | 25.0 | 27.9 | 30.0 |
| 12        | 27.5 | 30.4 | 32.5 |
| 13        | 30.0 | 32.9 | 35.0 |
| 14        | 32.5 | 35.4 | 37.5 |
| 15        | 35.0 | 37.9 | 40.0 |



NOTE

1. Unless otherwise specified, tolerances are  $0 < L \leq 3.0 : \pm 0.3$   
 $3.0 < L \leq 9.0 : \pm 0.4$
2. Post side with holding construction for housing.
3. Posts at the both side shall be clinched.

|             |  |            |          |                                             |                                                                                     |               |  |
|-------------|--|------------|----------|---------------------------------------------|-------------------------------------------------------------------------------------|---------------|--|
|             |  |            |          | REVISIONS                                   |                                                                                     |               |  |
| 2           |  | WAFER      | 66NYLON  | UL94V-0                                     |                                                                                     |               |  |
| 1           |  | POST       | BRASS    | COPPER-UNDERPLATED<br>TIN/LEAD ALLOY-PLATED |                                                                                     |               |  |
| No.         |  | NAME       | MATERIAL | REMARKS                                     |                                                                                     |               |  |
| J. S. T.    |  |            |          |                                             |                                                                                     |               |  |
| APPROVED BY |  | CHECKED BY | DRAWN BY | SCALE                                       | PROJECTION                                                                          | DATE          |  |
| [Signature] |  | 5.5.       | Nago     | free                                        |  | Mar. 6<br>'97 |  |
|             |  |            |          | PART NAME                                   | EH CONNECTOR                                                                        |               |  |
|             |  |            |          | PART No.                                    | B()B-EH-A                                                                           |               |  |
|             |  |            |          | DRAWING No.                                 | KRD- 7296-3                                                                         |               |  |



P. C. B Hole layout

NOTE

- 1. Unless otherwise specified, tolerances are  $0 < L \leq 3.0$ :  $\pm 0.3$   
 $3.0 < L$ :  $\pm 0.4$
- 2. Post at the both side shall be clinched.

| Cir-<br>cuits | Dimensions |      |      |
|---------------|------------|------|------|
|               | A          | B    | C    |
| 2             | 2.5        | 5.4  | 7.5  |
| 3             | 5.0        | 7.9  | 10.0 |
| 4             | 7.5        | 10.4 | 12.5 |
| 5             | 10.0       | 12.9 | 15.0 |
| 6             | 12.5       | 15.4 | 17.5 |
| 7             | 15.0       | 17.9 | 20.0 |
| 8             | 17.5       | 20.4 | 22.5 |
| 9             | 20.0       | 22.9 | 25.0 |
| 10            | 22.5       | 25.4 | 27.5 |
| 11            | 25.0       | 27.9 | 30.0 |
| 12            | 27.5       | 30.4 | 32.5 |
| 13            | 30.0       | 32.9 | 35.0 |
| 14            | 32.5       | 35.4 | 37.5 |
| 15            | 35.0       | 37.9 | 40.0 |

|                    |              |             |                                             |            |                  |              |
|--------------------|--------------|-------------|---------------------------------------------|------------|------------------|--------------|
| 2                  | WAFER        | 66NYLON     | UL94V-0                                     | REVISIONS  |                  |              |
| 1                  | POST         | BRASS       | COPPER-UNDERPLATED<br>TIN/LEAD ALLOY-PLATED |            |                  |              |
| No.                | NAME         | MATERIAL    | REMARKS                                     |            |                  |              |
| J. S. T.           |              |             |                                             | PART NAME  | EH, HR CONNECTOR |              |
| APPROVED BY        | CHECKED BY   | DRAWN BY    | SCALE                                       | PROJECTION | DATE             |              |
| <i>K. S. S. S.</i> | <i>H. S.</i> | <i>Nago</i> | free                                        |            | Mar. 6 '97       |              |
|                    |              |             |                                             |            | PART No.         | S()B-EH      |
|                    |              |             |                                             |            | DRAWING No.      | KRD- 13707-3 |