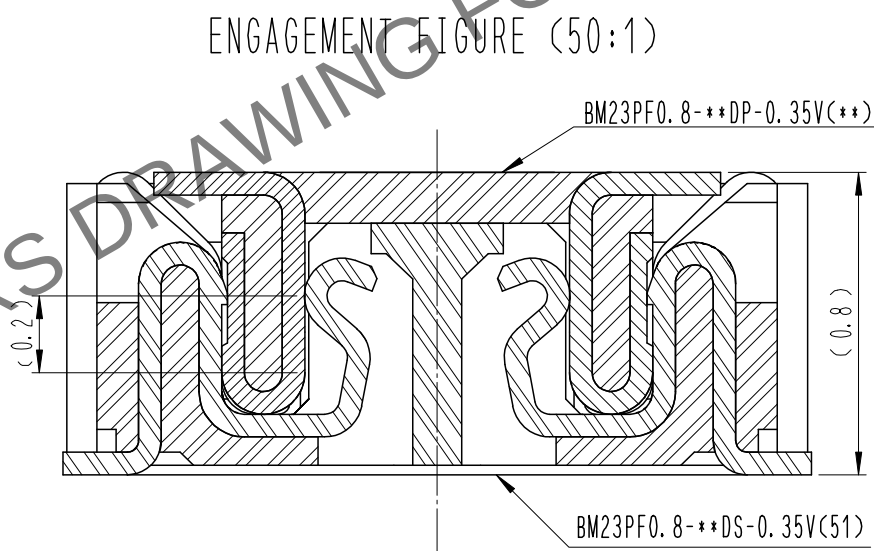
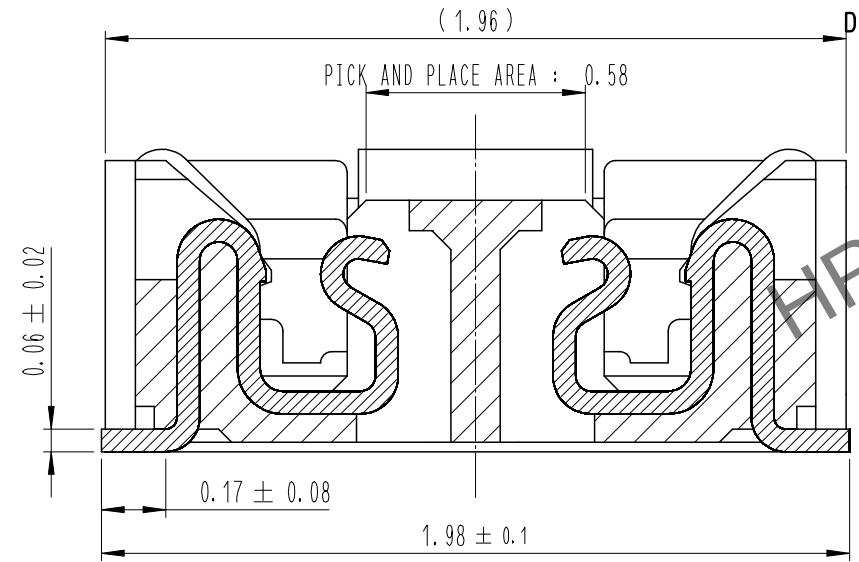
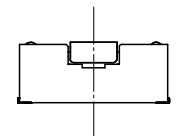
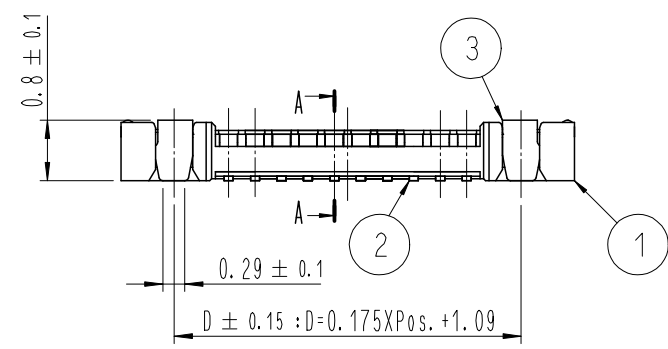
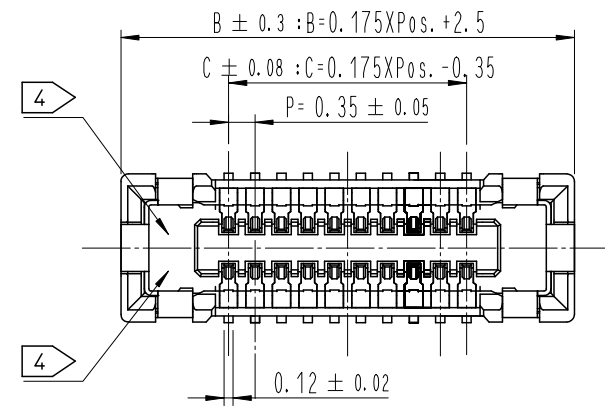


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

DRAWING FOR REFERENCE  
This is subject to change without notice

|   | COUNT | DESCRIPTION OF REVISIONS | B | Y | CHKD | DATE |             | COUNT | DESCRIPTION OF REVISIONS | B | Y | CHKD | DATE  |
|---|-------|--------------------------|---|---|------|------|-------------|-------|--------------------------|---|---|------|-------|
| △ | 2     | RE-6-0742                |   |   | LYJ  | JHW  | 16. 09 . 27 | △     |                          |   |   |      | . . . |
| △ | 3     | RE-6-0806                |   |   | MSH  | JHW  | 17. 01 . 05 | △     |                          |   |   |      | . . . |
| △ |       |                          |   |   |      |      | . . .       | △     |                          |   |   |      | . . . |

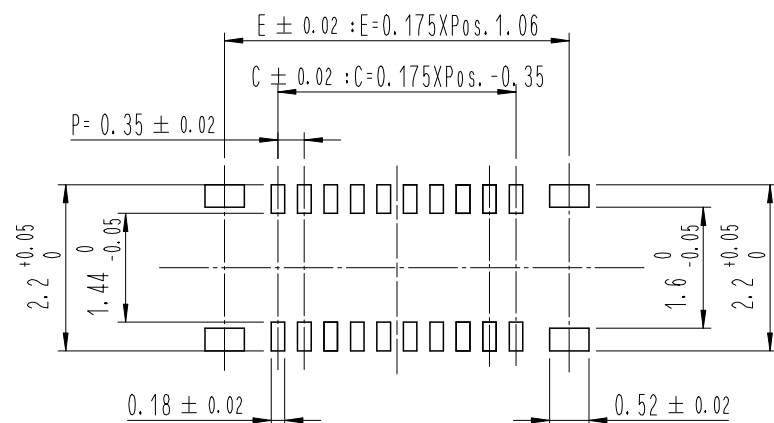
| △ PART No.               | CODE No. | POS. | B     | C    | D     |
|--------------------------|----------|------|-------|------|-------|
| BM23PF0.8-10DS-0.35V(51) | -        | 10   | 4.25  | 1.40 | 2.84  |
| BM23PF0.8-14DS-0.35V(51) | -        | 14   | 4.95  | 2.10 | 3.54  |
| BM23PF0.8-20DS-0.35V(51) | -        | 20   | 6.00  | 3.15 | 4.59  |
| BM23PF0.8-24DS-0.35V(51) | -        | 24   | 6.70  | 3.85 | 5.29  |
| BM23PF0.8-40DS-0.35V(51) | -        | 40   | 9.50  | 6.65 | 8.09  |
| BM23PF0.8-42DS-0.35V(51) | -        | 42   | 9.85  | 7.00 | 8.44  |
| BM23PF0.8-46DS-0.35V(51) | -        | 46   | 10.55 | 7.70 | 9.14  |
| BM23PF0.8-54DS-0.35V(51) | -        | 54   | 11.95 | 9.10 | 10.54 |



- NOTE
- 1. ALL LEAD CO-PLANARITY SHALL BE 0.08mm MAX.
  - 2. CONTACT PLATING SPECIFICATIONS.  
CONTACT AREA : GOLD 0.05μm MIN.  
SMT LEAD : GOLD 0.05μm MIN.  
UNDERPLATING : NICKEL 1μm MIN.  
( SURFACE : SEALING )
  - 3. MATAL FITTING PLATING SPECIFICATIONS.  
SMT LEAD : GOLD 0.05μm MIN.  
UNDERPLATING : NICKEL 1μm MIN.  
( SURFACE : SEALING )
  - 4. HRS MARK AND CAV NO. IS INDICATED IN APPROX POSITION SHOWN.

| 4              | PS             | CLEAR (EMBOSSED CARRIER TAPE) |                          |            |                              |
|----------------|----------------|-------------------------------|--------------------------|------------|------------------------------|
| 3              | △ COOPER ALLOY | 3                             | 7                        | PS         | CLEAR (REINFORCEMENT COLLAR) |
| 2              | △ COOPER ALLOY | 2                             | 6                        | PS         | BLACK (PLASTIC REEL)         |
| 1              | LCP            | UL94 V-0, BLACK               | 5                        | POLYESTER  | CLEAR (COVER TAPE)           |
| NO.            | MATERIAL       | FINISH , REMARKS              | NO.                      | MATERIAL   | FINISH , REMARKS             |
| REMARKS        |                |                               | DRAWN                    | DESIGNED   | CHECKED                      |
|                |                |                               | Y. J. LEE                | Y. J. LEE  | H. W. JO                     |
|                |                |                               | 15. 11. 23               | 15. 11. 23 | 15. 11. 23                   |
|                |                |                               |                          | APPROVED   | RELEASED                     |
|                |                |                               |                          | T. S. KANG | 15. 11. 23                   |
| CODE NO. (OLD) | SCALE          | DRAWING NO.                   | PART NO.                 |            |                              |
|                | 10:1           | EDC3-*****                    | BM23PF0.8-**DS-0.35V(51) |            |                              |
|                | UNITS          | HRS HIROSE KOREA CO., LTD.    | CODE NO                  |            |                              |
|                | mm             |                               | CL 66**-*****-***        |            |                              |
|                |                |                               |                          |            | 1/3                          |

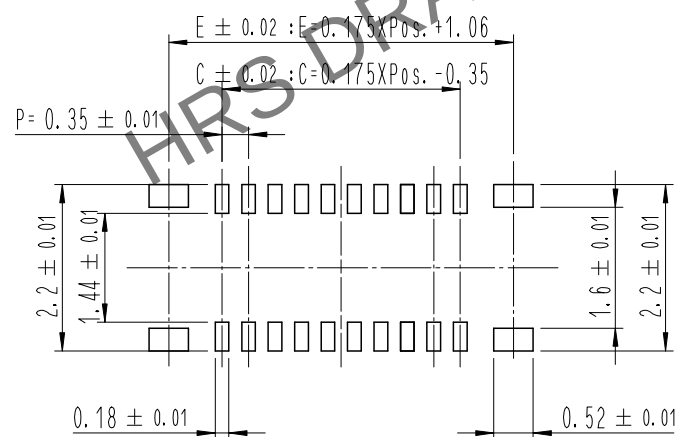
## 6 RECOMMENDED PCB LAYOUT



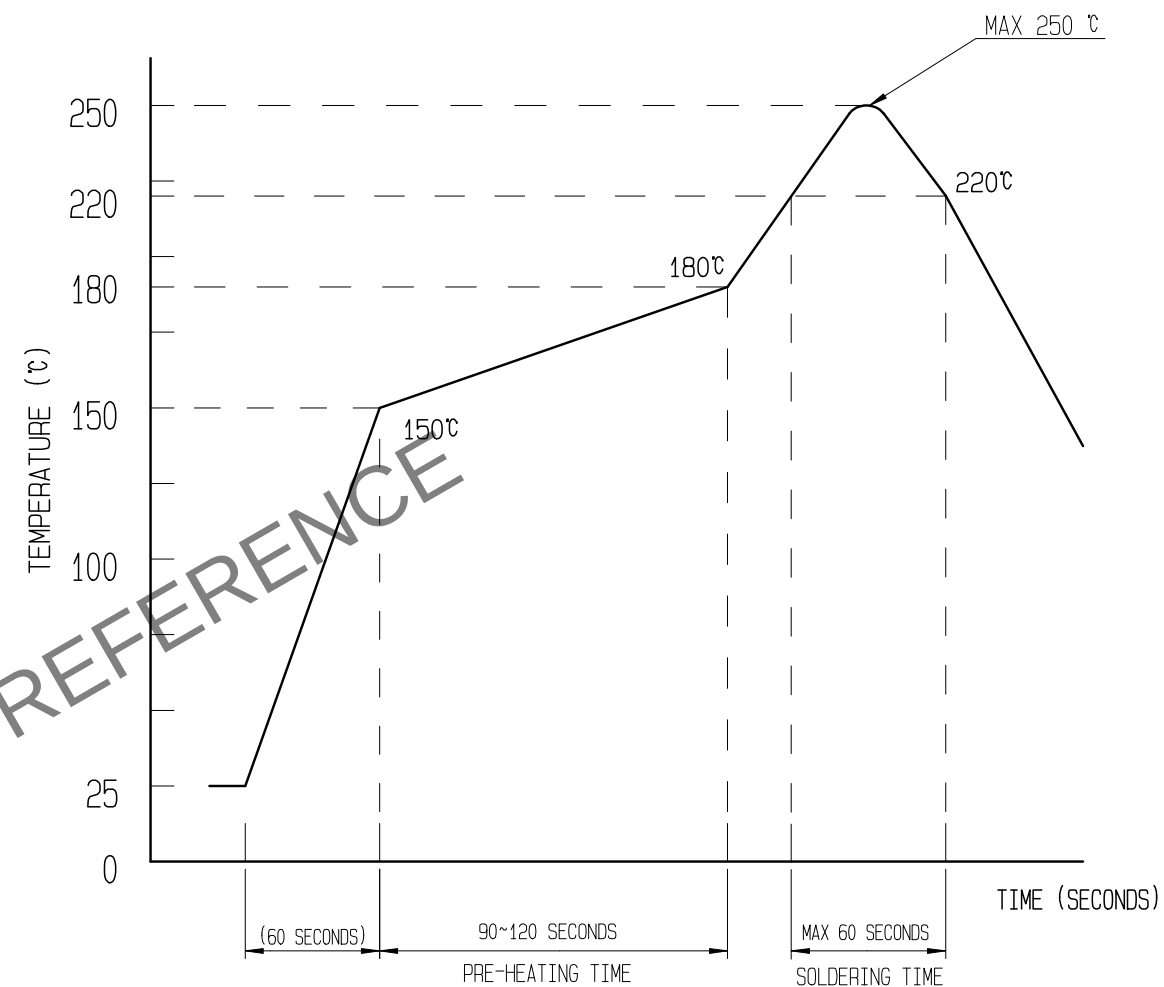
| △ POS. | C    | E     |
|--------|------|-------|
| 10     | 1.40 | 2.81  |
| 14     | 2.10 | 3.51  |
| 20     | 3.15 | 4.56  |
| 24     | 3.85 | 5.26  |
| 40     | 6.65 | 8.06  |
| 42     | 7.00 | 8.41  |
| 46     | 7.70 | 9.11  |
| 54     | 9.10 | 10.51 |

## RECOMMENDED METAL MASK DIMENSIONS

MATAL MASK THICKNESS : 100  $\mu$ m



## 5 RECOMMENDED REFLOW TEMPERATURE PROFILE USING LEAD-FREE SOLDER PASTE.



REFLOW METHOD: IR REFLOW  
NUMBER OF REFLOW CYCLES: 2 CYCLES MAX.  
1) REFLOW TIME  
DURATION ABOVE 220°C: 60 SEC MAX.  
(PEAK TEMPERATURE: 250°C MAX)  
2) PRE-HEAT TIME  
PRE-HEAT TEMPERATURE (MIN): 150°C  
PRE-HEAT TEMPERATURE (MAX): 180°C  
PRE-HEAT TIME: 90-120 SEC.

5. THIS TEMPERATURE PROFILE IS PER THE CONDITIONS SHOWN ABOVE. ADDITIONAL FACTORS, SUCH AS SOLDER PASTE TYPE, PCB SIZE AND OTHER MOUNTED COMPONENTS COULD AFFECT THE PROFILE. THEREFORE, A THOROUGH EVALUATION OF MOUNTING CONDITION IS REQUIRED PRIOR TO PRODUCTION. TEMPERATURE IS MEASURED AT CONTACT LEAD.
6. PLEASE CONTACT US IN CASE YOU WILL MAKE DIFFERENT SETTINGS FROM OUR RECOMMENDATION.

|               |                           |                                      |
|---------------|---------------------------|--------------------------------------|
|               | DRAWING NO.<br>EDC3-***** | PART NO.<br>BM23PF0.8-**DS-0.35V(51) |
| SCALE<br>10:1 | UNITS<br>mm               | CODE NO<br>CL 66**-*****-***         |
|               |                           | 2/3                                  |

A

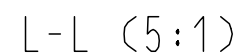
B

C

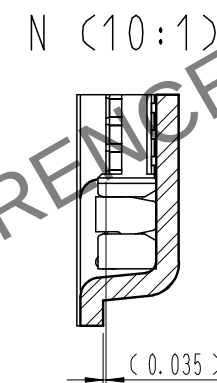
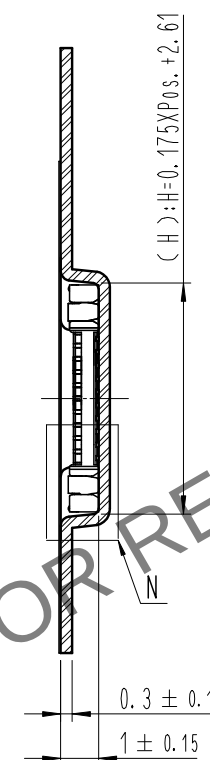
D

E

F



| △ | POS. | F  | G    | H     | J    | K    |
|---|------|----|------|-------|------|------|
|   | 10   | 16 | 7.5  | 4.36  | 17.5 | 21.5 |
|   | 14   | 16 | 7.5  | 5.06  | 17.5 | 21.5 |
|   | 20   | 16 | 7.5  | 6.11  | 17.5 | 21.5 |
|   | 24   | 16 | 7.5  | 6.81  | 17.5 | 21.5 |
|   | 40   | 24 | 11.5 | 9.61  | 25.5 | 29.5 |
|   | 42   | 24 | 11.5 | 9.96  | 25.5 | 29.5 |
|   | 46   | 24 | 11.5 | 10.66 | 25.5 | 29.5 |
|   | 54   | 24 | 11.5 | 12.06 | 25.5 | 29.5 |

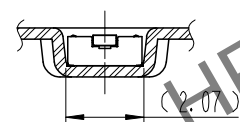


D — E

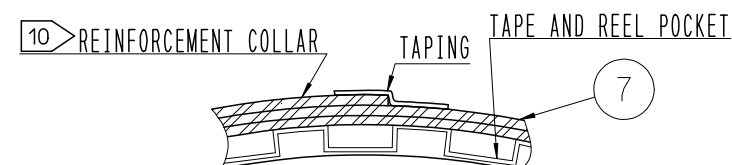
|                      |                          |
|----------------------|--------------------------|
| SUPPLIER             |                          |
| QUANTITY             |                          |
| PART NO.             |                          |
| CODE NO.             |                          |
| DATE OF MANUFACTURED |                          |
| 生産月日                 | 年 月 日                    |
| 図番                   | ** ** *                  |
| 品名                   | BM23PF0.8-**DS-0.35V(51) |
| 納入数量                 | 10,000個                  |
| 納入者                  | HIROSE KOREA             |



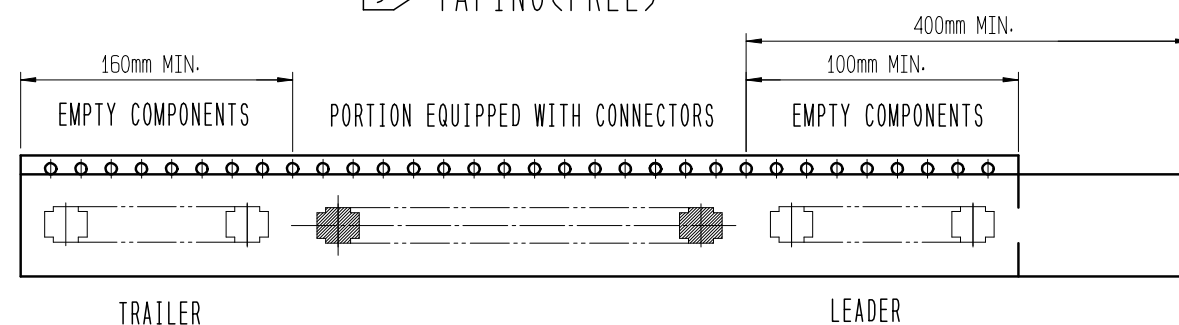
DIRECTION OF UNREELING



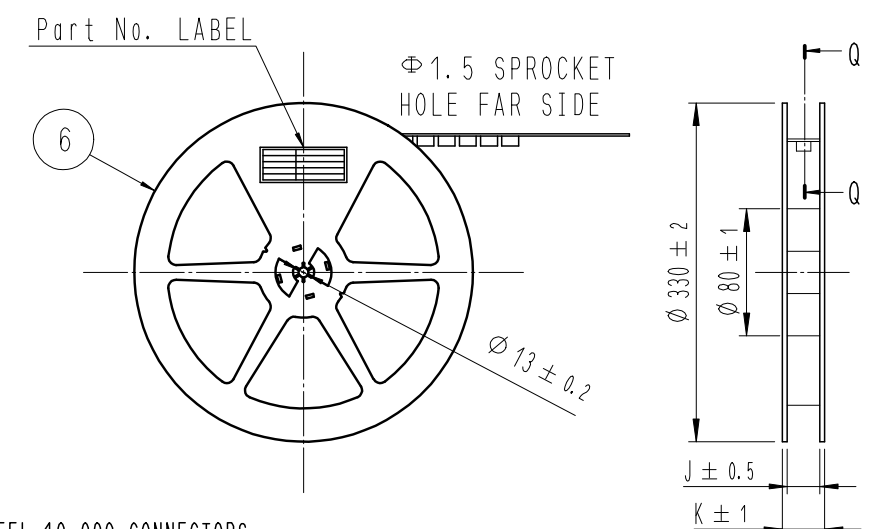
Q-Q ( FREE )



9 TAPING(FREE)



A vertical scale with five horizontal tick marks. The labels A, B, C, D, and E are positioned to the right of the scale, aligned with each tick mark from top to bottom.



- 7 . PER REEL 10,000 CONNECTORS.
- 8 . THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.
- 9 → REFER TO JIS C 0806, IEC-60286-3 (PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING)
- 10 → AFTER PACKAGING. ROLL 2 METERS OF THE REINFORCEMENT COLLAR TO OUTER CIRCUMFERENCE OF TAPE AND REEL POCKET. AND TAPE DOWN AT THE END THE COLLAR.

|                                                                                                              |                        |  |                                                                                                           |  |
|--------------------------------------------------------------------------------------------------------------|------------------------|--|-----------------------------------------------------------------------------------------------------------|--|
|                         | DRAWING NO. EDC3-***** |  | PART NO. BM23PF0.8-**DS-0.35V(51)                                                                         |  |
|                                                                                                              | SCALE 10:1<br>UNITS mm |  | CODE NO CL 66*-*****-*-**                                                                                 |  |
|  HIROSE KOREA CO., LTD. |                        |  | <div style="border: 1px solid black; padding: 5px; text-align: center;"> <div>3</div> <div>3</div> </div> |  |