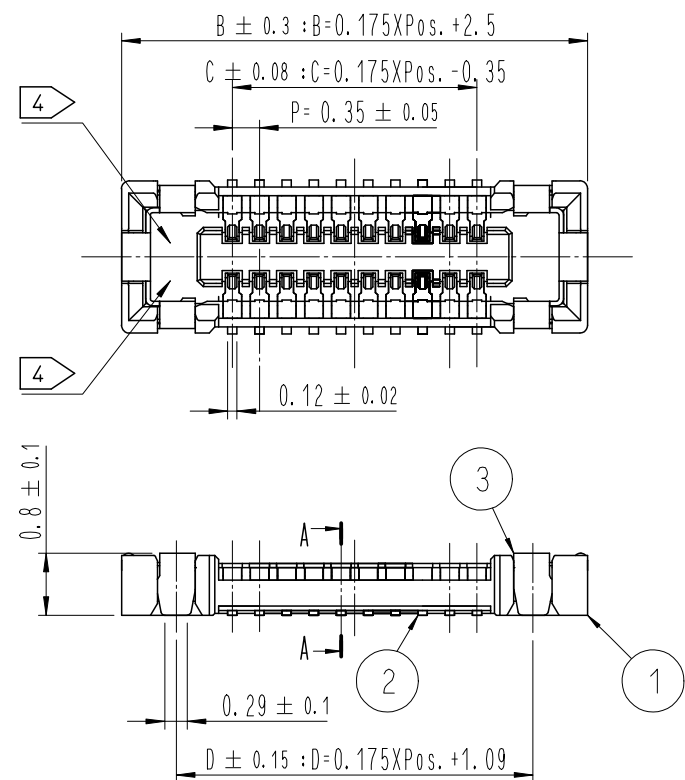


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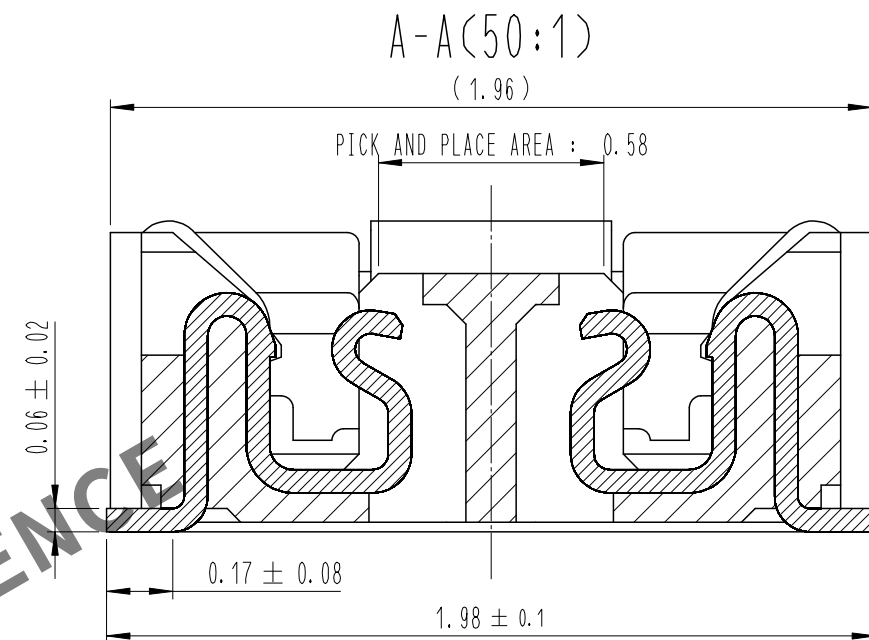
A  
B  
C  
D  
E  
F



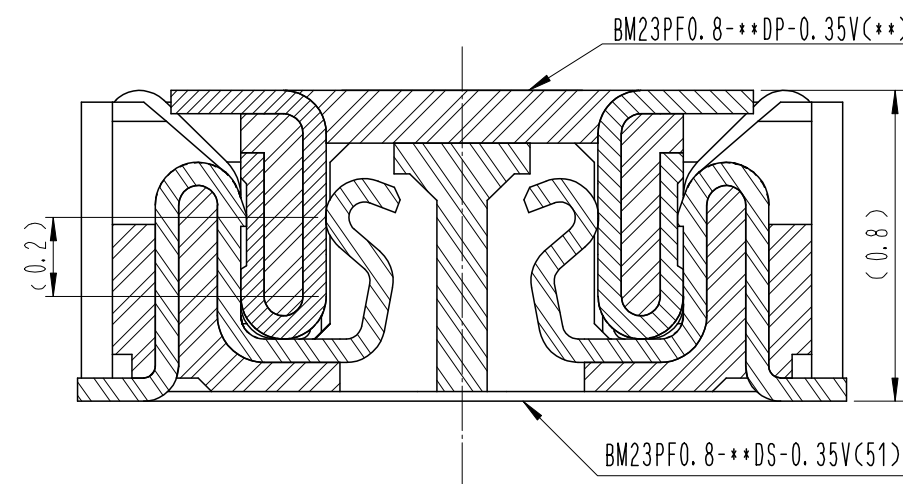
| PART No.                 | CODE No. | POS. | B     | C     | D     |
|--------------------------|----------|------|-------|-------|-------|
| BM23PF0.8-10DS-0.35V(51) | -        | 10   | 4.25  | 1.40  | 2.84  |
| BM23PF0.8-14DS-0.35V(51) | -        | 14   | 4.95  | 2.10  | 3.54  |
| BM23PF0.8-20DS-0.35V(51) | -        | 20   | 6.00  | 3.15  | 4.59  |
| BM23PF0.8-24DS-0.35V(51) | -        | 24   | 6.70  | 3.85  | 5.29  |
| BM23PF0.8-30DS-0.35V(51) | -        | 30   | 7.75  | 4.90  | 6.34  |
| 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  |
| BM23PF0.8-44DS-0.35V(51) | -        | 44   | 10.20 | 7.35  | 8.79  |
| BM23PF0.8-46DS-0.35V(51) | -        | 46   | 10.55 | 7.70  | 9.14  |
| BM23PF0.8-50DS-0.35V(51) | -        | 50   | 11.25 | 8.40  | 9.84  |
| BM23PF0.8-54DS-0.35V(51) | -        | 54   | 11.95 | 9.10  | 10.54 |
| BM23PF0.8-60DS-0.35V(51) | -        | 60   | 13.00 | 10.15 | 11.59 |
| BM23PF0.8-64DS-0.35V(51) | -        | 64   | 13.70 | 10.85 | 12.29 |

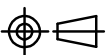
- NOTE
- 1 . ALL LEAD CO-PLANARITY SHALL BE 0.08mm MAX.
- 2 . CONTACT PLATING SPECIFICATIONS.  
CONTACT AREA : GOLD 0.05  $\mu$ m MIN.  
SMT LEAD : GOLD 0.05  $\mu$ m MIN.  
UNDERPLATING : NICKEL 1  $\mu$ m MIN.  
( SURFACE : SEALING )
- 3 . METAL FITTING PLATING SPECIFICATIONS.  
SMT LEAD : GOLD 0.05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

|   | COUNT | DESCRIPTION OF REVISIONS | B   | Y   | CHKD     | DATE |   | COUNT | DESCRIPTION OF REVISIONS | B | Y | CHKD | DATE |
|---|-------|--------------------------|-----|-----|----------|------|---|-------|--------------------------|---|---|------|------|
| 1 | 2     | RE-6-0742                | LYJ | JHW | 16.09.27 |      | 1 |       |                          |   |   |      |      |
| 2 | 3     | RE-6-0806                | MSH | JHW | 17.01.05 |      | 2 |       |                          |   |   |      |      |
| 3 | 3     | RE-6-1784                | PSH | JHW | 20.04.09 |      | 3 |       |                          |   |   |      |      |



ENGAGEMENT FIGURE (50:1)

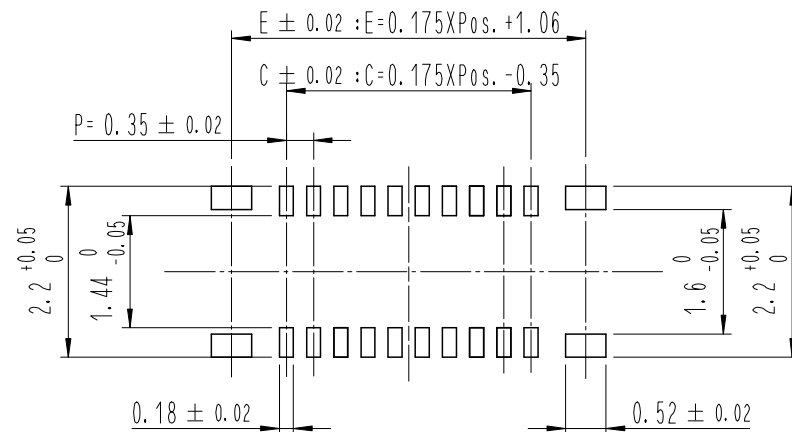


|                |                                                                                       |                               |                                    |                          |                             |                        |            |
|----------------|---------------------------------------------------------------------------------------|-------------------------------|------------------------------------|--------------------------|-----------------------------|------------------------|------------|
| 4              | PS                                                                                    | CLEAR (EMBOSSED CARRIER TAPE) |                                    |                          |                             |                        |            |
| 3              | <div>1</div> COOPER ALLOY                                                             | <div>3</div>                  | 7                                  | PS                       | CLEAR(REINFORCEMENT COLLAR) |                        |            |
| 2              | <div>1</div> COOPER ALLOY                                                             | <div>2</div>                  | 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                     | APPROVED               | RELEASED   |
|                |                                                                                       |                               | J. S. JANG<br>20. 10. 06           | J. S. JANG<br>20. 10. 06 | H. W. JO<br>20. 10. 06      | H. W. JO<br>20. 10. 06 | 24. 07. 03 |
| CODE NO. (OLD) |  | DRAWING NO.                   | PART NO. BM23PF0.8-**-DS-0.35V(51) |                          |                             |                        |            |
|                | SCALE<br>10:1                                                                         | EDC3-*****                    |                                    |                          |                             |                        |            |
|                | UNITS<br>mm                                                                           | HRS HIROSE KOREA CO., LTD.    |                                    | CODE NO                  | CL 66**-*****-51            |                        | 1/3        |

1 2 3 4 5 6 7 8

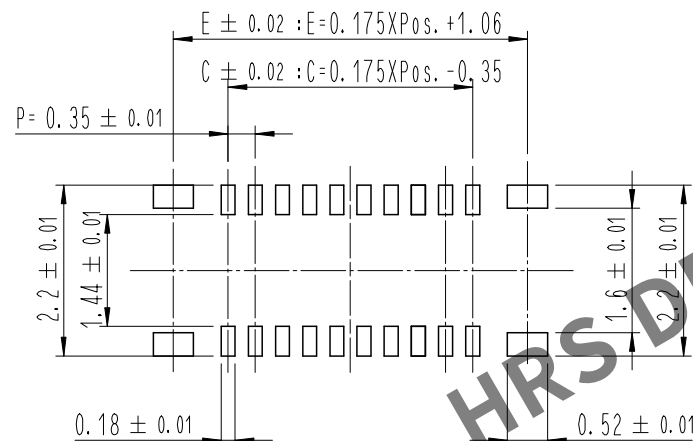
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## 6 RECOMMENDED PCB LAYOUT



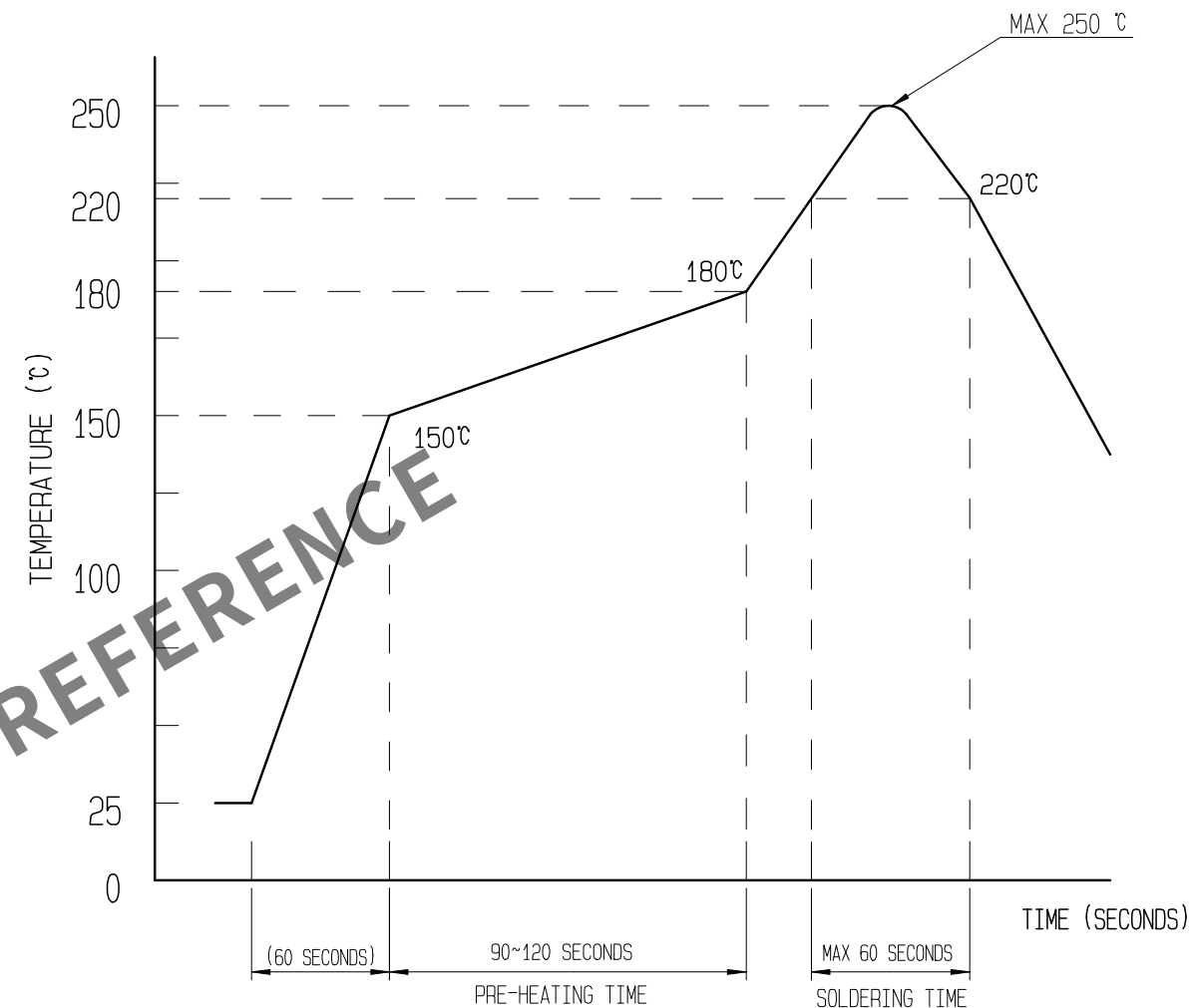
## RECOMMENDED METAL MASK DIMENSIONS

METAL MASK THICKNESS :  $100 \mu\text{m}$



| POS. | C     | E     |
|------|-------|-------|
| 10   | 1.40  | 2.81  |
| 14   | 2.10  | 3.51  |
| 20   | 3.15  | 4.56  |
| 24   | 3.85  | 5.26  |
| 30   | 4.90  | 6.31  |
| 40   | 6.65  | 8.06  |
| 42   | 7.00  | 8.41  |
| 44   | 7.35  | 8.76  |
| 46   | 7.70  | 9.11  |
| 50   | 8.40  | 9.81  |
| 54   | 9.10  | 10.51 |
| 60   | 10.15 | 11.56 |
| 64   | 10.85 | 12.26 |

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



REFLOW METHOD:  $\text{N}_2$  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. EDC3-*****     | PART NO. BM23PF0.8-**DS-0.35V(51) |
| SCALE 10:1 | HRS HIROSE KOREA CO., LTD. | CODE NO CL 66**-*****-51          |
| UNITS mm   |                            | 2/3                               |



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