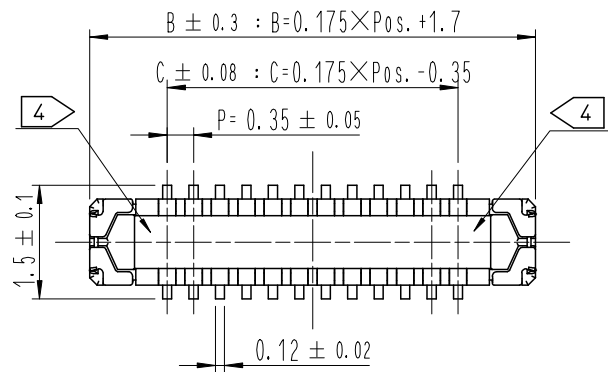
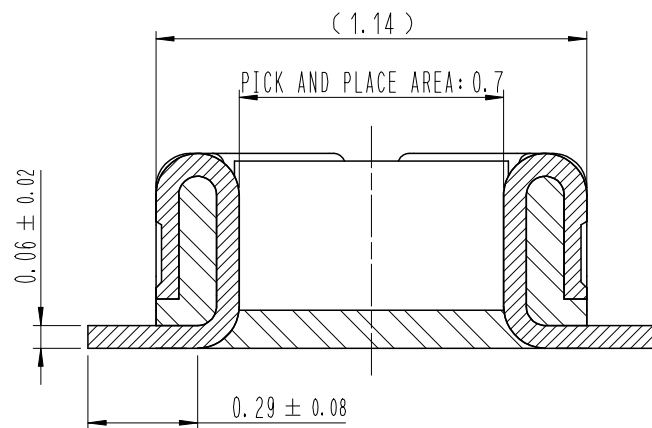


A-A (50:1)

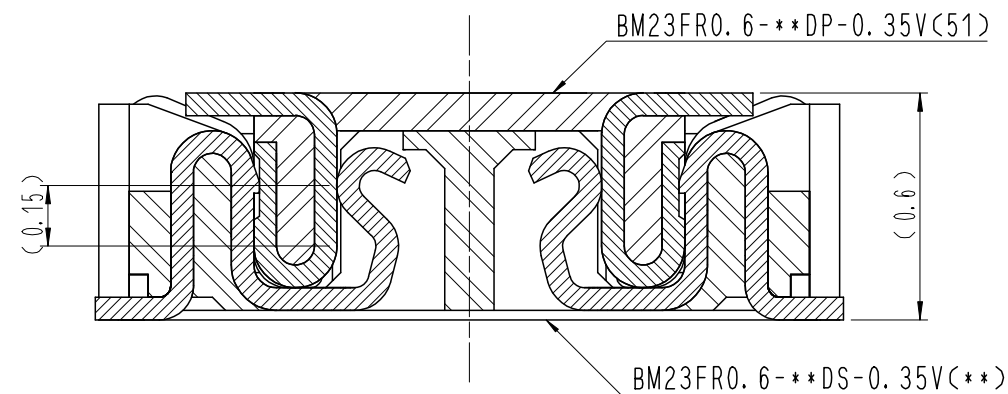


- NOTE
1. ALL LEAD CO-PLANARITY SHALL BE 0.08mm MAX.
  2. CONTACT PLATING SPECIFICATIONS.  
CONTACT AREA : GOLD 0.05  $\mu$ m MIN.  
SMT LEAD : GOLD 0.05  $\mu$ m MIN.  
UNDER PLATING : NICKEL 1  $\mu$ m MIN.  
( SURFACE : SEALING )
  3. METAL FITTING PLATING SPECIFICATIONS.  
SMT LEAD : GOLD 0.05  $\mu$ m MIN.  
UNDERPLATING : NICKEL 1  $\mu$ m MIN.  
( SURFACE : SEALING )
  4. CAV No. IS INDICATED IN APPROX POSITION SHOWN.
  5. A PART OF THE WALL COULD BE NOTCHED.

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 |
|---|-------|--------------------------|-------|-------|------|------------|---|-------|--------------------------|---|---|------|------|
| △ | 3     | RE-6-0649                | J.S.H | J.H.W |      | 16. 05. 04 | △ |       |                          |   |   |      |      |
| △ | 3     | RE-6-0774                | J.S.H | J.H.W |      | 16. 11. 07 | △ |       |                          |   |   |      |      |
| △ |       |                          |       |       |      |            | △ |       |                          |   |   |      |      |

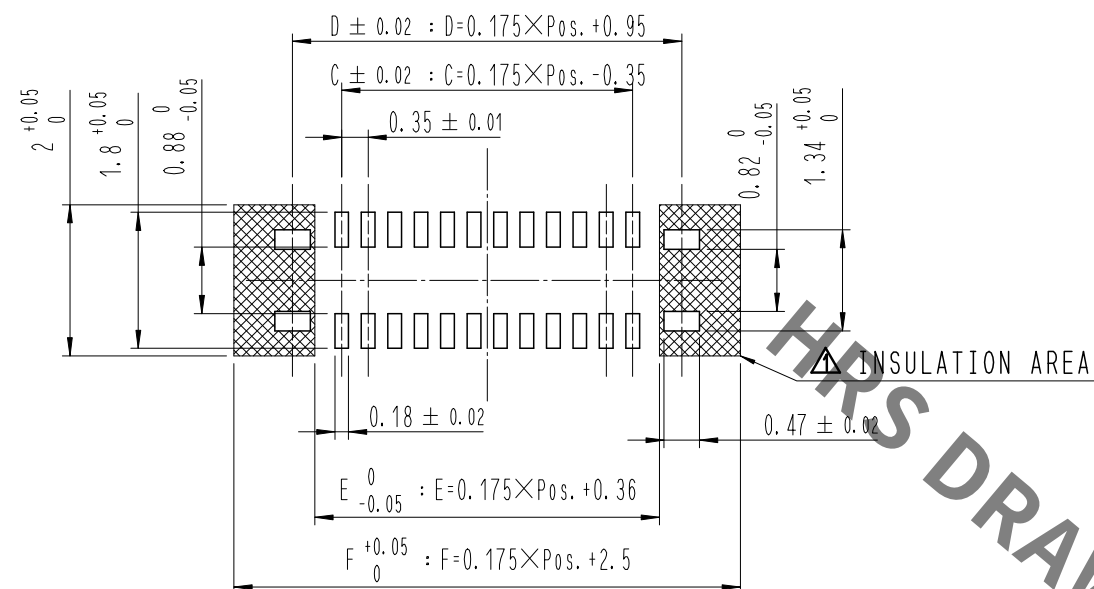
ENGAGEMENT FIGURE (50:1)



| △ PART No.               | CODE No. | POS. | B     | C    | D    |
|--------------------------|----------|------|-------|------|------|
| BM23FR0.6-6DP-0.35V(51)  | -        | 6    | 2.75  | 0.70 | 2.00 |
| BM23FR0.6-8DP-0.35V(51)  | -        | 8    | 3.10  | 1.05 | 2.35 |
| BM23FR0.6-10DP-0.35V(51) | -        | 10   | 3.45  | 1.40 | 2.70 |
| BM23FR0.6-12DP-0.35V(51) | -        | 12   | 3.80  | 1.75 | 3.05 |
| BM23FR0.6-16DP-0.35V(51) | -        | 16   | 4.50  | 2.45 | 3.75 |
| BM23FR0.6-20DP-0.35V(51) | -        | 20   | 5.20  | 3.15 | 4.45 |
| BM23FR0.6-24DP-0.35V(51) | -        | 24   | 5.90  | 3.85 | 5.15 |
| BM23FR0.6-30DP-0.35V(51) | -        | 30   | 6.95  | 4.90 | 6.20 |
| BM23FR0.6-34DP-0.35V(51) | -        | 34   | 7.65  | 5.60 | 6.90 |
| BM23FR0.6-40DP-0.35V(51) | -        | 40   | 8.70  | 6.65 | 7.95 |
| BM23FR0.6-50DP-0.35V(51) | -        | 50   | 10.45 | 8.40 | 9.70 |

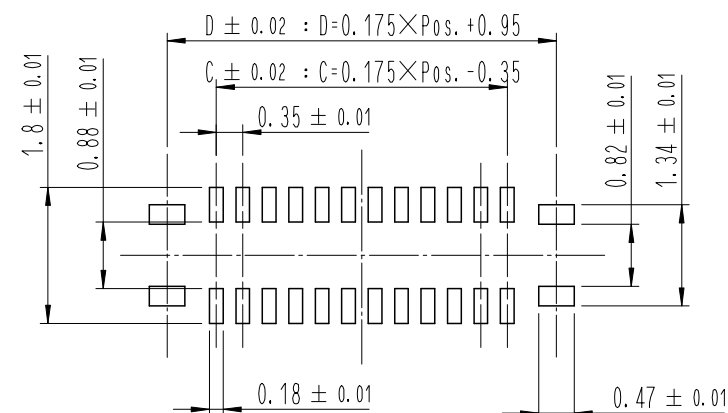
| 4              | PS              | CLEAR (EMBOSSED CARRIER TAPE) |                           |            |                              |
|----------------|-----------------|-------------------------------|---------------------------|------------|------------------------------|
| 3              | PHOSPHOR BRONZE | 3                             | 7                         | PS         | CLEAR (REINFORCEMENT COLLAR) |
| 2              | PHOSPHOR BRONZE | 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                      |
|                |                 |                               | D. W. KIM                 | D. W. KIM  | H. W. JO                     |
|                |                 |                               | 14. 11. 06                | 14. 11. 06 | 14. 11. 06                   |
|                |                 |                               |                           | APPROVED   | RELEASED                     |
|                |                 |                               |                           | T. S. KANG | 16. 11. 07                   |
| CODE NO. (OLD) | SCALE           | DRAWING NO.                   | PART NO.                  |            |                              |
|                | 10:1            | EDC3-*****                    | BM23FR0.6-***DP-0.35V(51) |            |                              |
|                | UNITS           | HIROSE KOREA CO., LTD.        | CODE NO                   |            |                              |
|                | mm              |                               | CL 66**-*****-***         |            |                              |
|                |                 |                               |                           |            | 1/3                          |

## 7 RECOMMENDED PCB LAYOUT



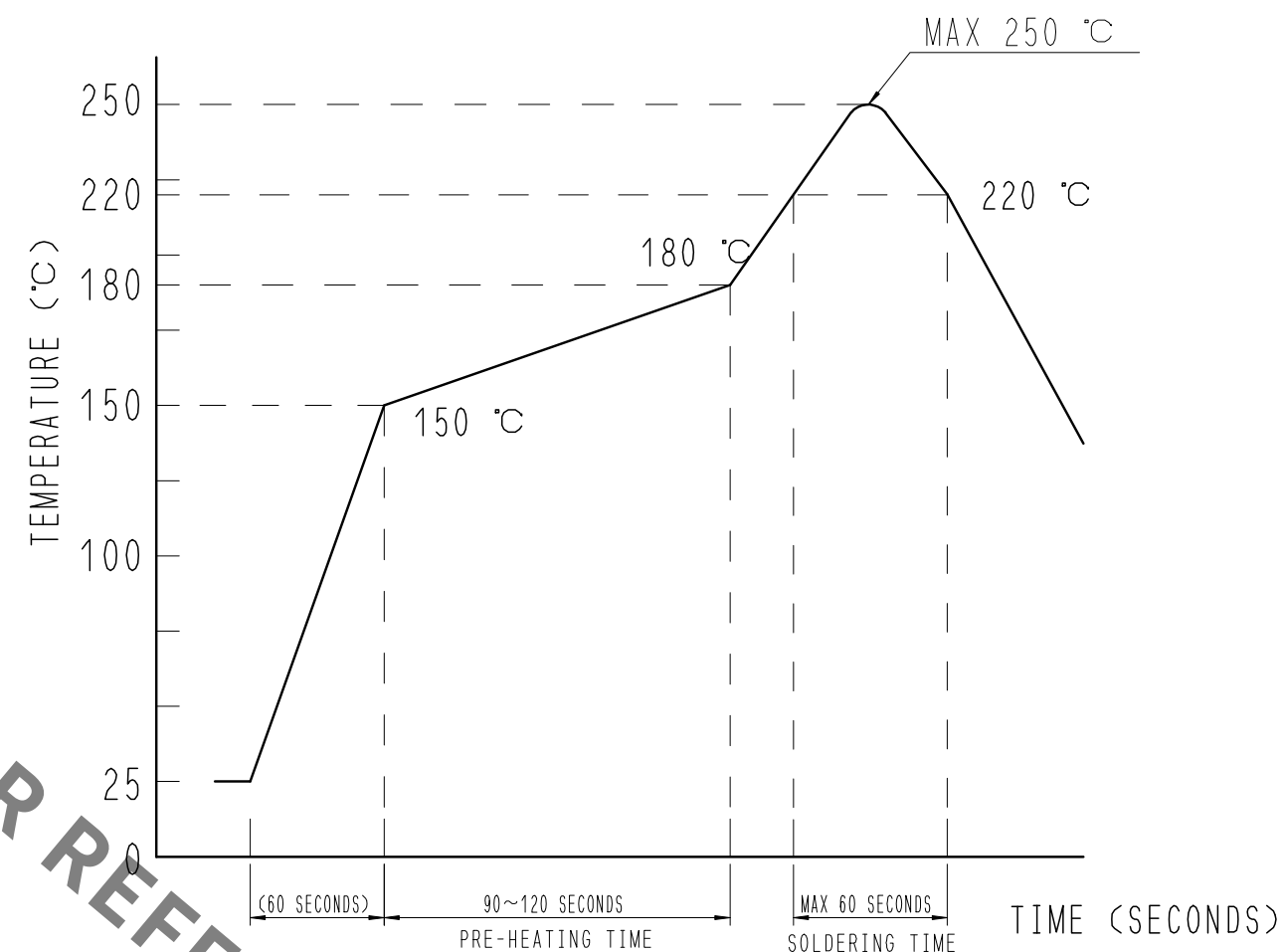
## RECOMMENDED METAL MASK DIMENSIONS

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



| POS. | C    | D    | E    | F     |
|------|------|------|------|-------|
| 6    | 0.70 | 2.00 | 1.41 | 3.55  |
| 8    | 1.05 | 2.35 | 1.76 | 3.90  |
| 10   | 1.40 | 2.70 | 2.11 | 4.25  |
| 12   | 1.75 | 3.05 | 2.46 | 4.60  |
| 16   | 2.45 | 3.75 | 3.16 | 5.30  |
| 20   | 3.15 | 4.45 | 3.86 | 6.00  |
| 24   | 3.85 | 5.15 | 4.56 | 6.70  |
| 30   | 4.90 | 6.20 | 5.61 | 7.75  |
| 34   | 5.60 | 6.90 | 6.31 | 8.45  |
| 40   | 6.65 | 7.95 | 7.36 | 9.50  |
| 50   | 8.40 | 9.70 | 9.11 | 11.25 |

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

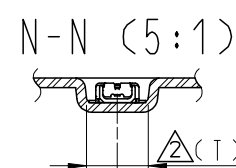
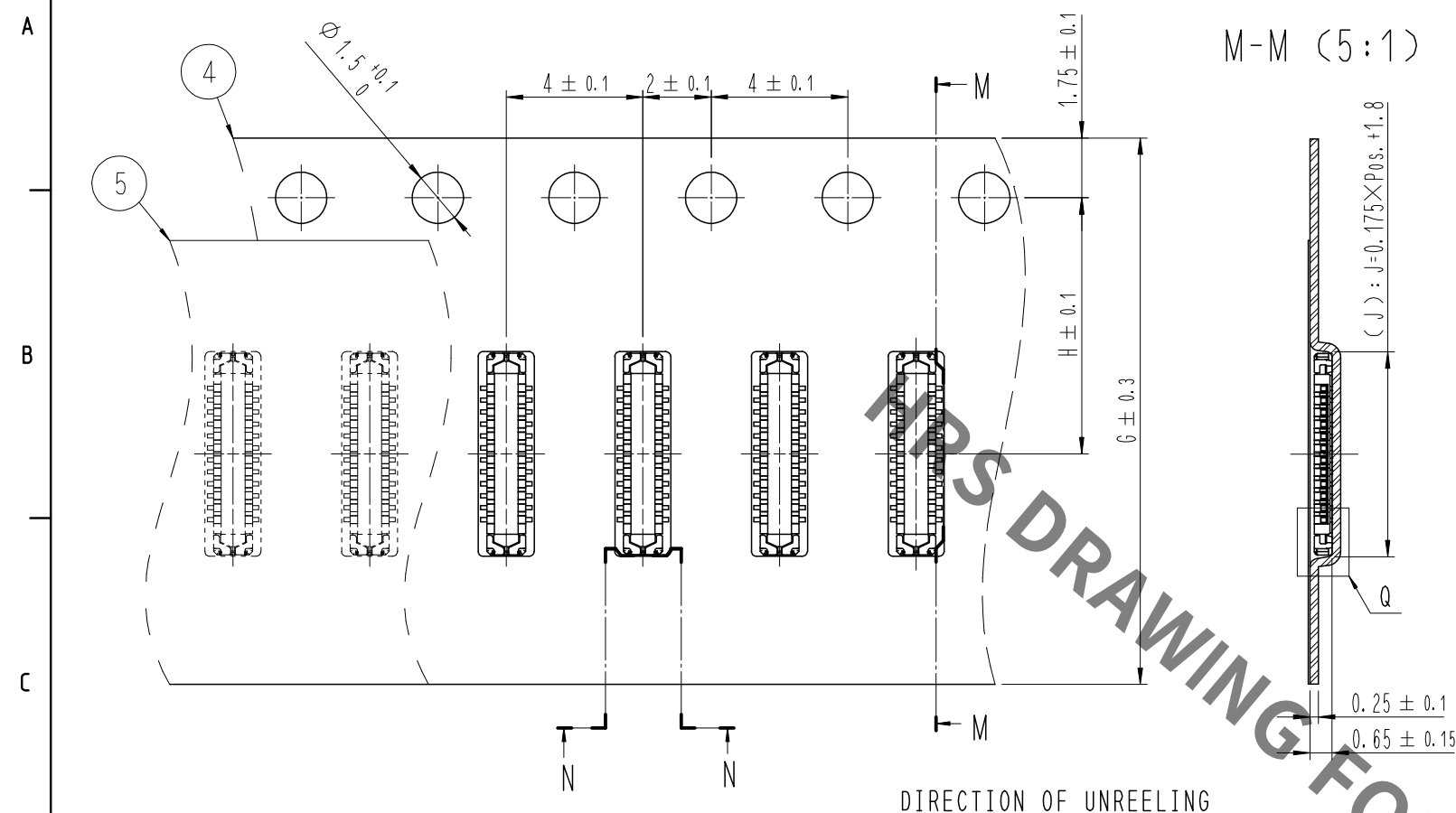


REFLOW METHOD: IR REFLOW  
NUMBER OF REFLOW CYCLES: 2 CYCLES MAX.  
1) REFLOW TIME  
DURATION ABOVE 220  $^{\circ}\text{C}$ : 60 SEC MAX.  
(PEAK TEMPERATURE: 250  $^{\circ}\text{C}$  MAX)  
2) PRE-HEAT TIME  
PRE-HEAT TEMPERATURE (MIN): 150  $^{\circ}\text{C}$   
PRE-HEAT TEMPERATURE (MAX): 180  $^{\circ}\text{C}$   
PRE-HEAT TIME: 90-120 SEC.

- 6 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.
- 7 PLEASE CONTACT US IN CASE YOU WILL MAKE DIFFERENT SETTINGS FROM OUR RECOMMENDATION.

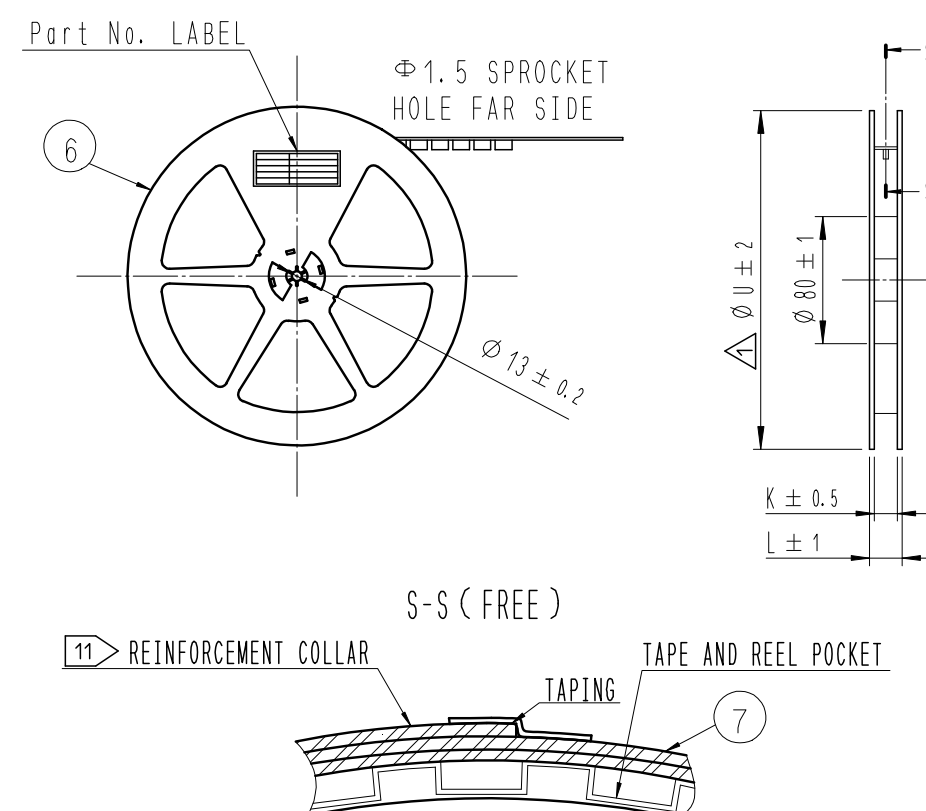
|       |             |                        |          |                          |
|-------|-------------|------------------------|----------|--------------------------|
|       | DRAWING NO. | EDC3-*****             | PART NO. | BM23FR0.6-**DP-0.35V(51) |
|       | SCALE       | 10:1                   | CODE NO  | CL 66**-*****-***        |
| UNITS | mm          | HIROSE KOREA CO., LTD. |          | 2/3                      |

## EMBOSSSED CARRIER TAPE PACKAGING (5:1)



| POS. | G  | H    | J     | K    | L    | T    | U   |
|------|----|------|-------|------|------|------|-----|
| 6    | 12 | 5.5  | 2.85  | 13.5 | 17.5 | 1.58 | 330 |
| 8    | 12 | 5.5  | 3.20  | 13.5 | 17.5 | 1.58 | 330 |
| 10   | 12 | 5.5  | 3.55  | 13.5 | 17.5 | 1.64 | 380 |
| 12   | 12 | 5.5  | 3.90  | 13.5 | 17.5 | 1.64 | 330 |
| 16   | 16 | 7.5  | 4.60  | 17.5 | 21.5 | 1.64 | 330 |
| 20   | 16 | 7.5  | 5.30  | 17.5 | 21.5 | 1.64 | 380 |
| 24   | 16 | 7.5  | 6.00  | 17.5 | 21.5 | 1.64 | 380 |
| 30   | 16 | 7.5  | 7.05  | 17.5 | 21.5 | 1.64 | 330 |
| 34   | 16 | 7.5  | 7.75  | 17.5 | 21.5 | 1.64 | 380 |
| 40   | 24 | 11.5 | 8.80  | 25.5 | 29.5 | 1.64 | 330 |
| 50   | 24 | 11.5 | 10.55 | 25.5 | 29.5 | 1.64 | 330 |

① STYLE AND DIMENTION OF REEL (FREE)



## DETAIL OF PART No. LABEL

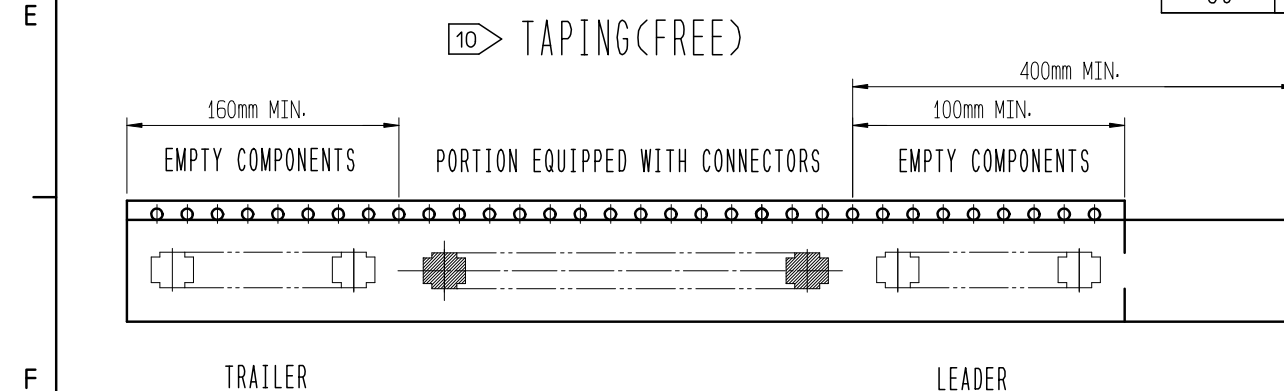
|                      |                             |
|----------------------|-----------------------------|
| SUPPLIER             |                             |
| QUANTITY             |                             |
| PART NO.             |                             |
| CODE NO.             |                             |
| DATE OF MANUFACTURED |                             |
| 生産月日                 | 年 月 日                       |
| 図番                   | ** ** *                     |
| 品名                   | BM23FR0. 6-***DP-0. 35V(C51 |
| 納入数量                 | 10, 000個                    |
| 納入者                  | HIROSE KOREA                |

8 . PER REEL 10,000 CONNECTORS.

9 - THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.

10 REFER TO JIS C 0806, IEC-60286-3 (PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING)

11 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. BM23FR0.6-**DP-0.35V(51) |  |
|                                                                                                              | SCALE 10:1<br>UNITS mm |  | CODE NO CL 66*-***-***            |  |
|  HIROSE KOREA CO., LTD. |                        |  | 3                                 |  |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Hirose Electric:](#)

[BM23FR0.6-16DP-0.35V\(51\)](#)