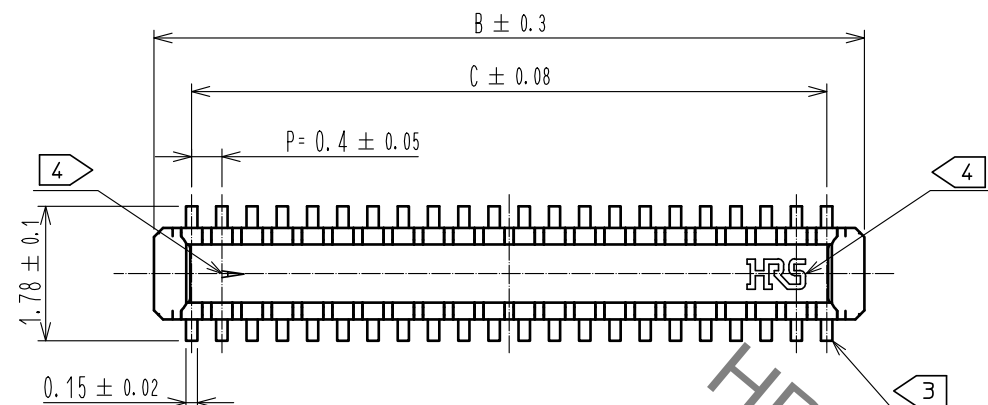
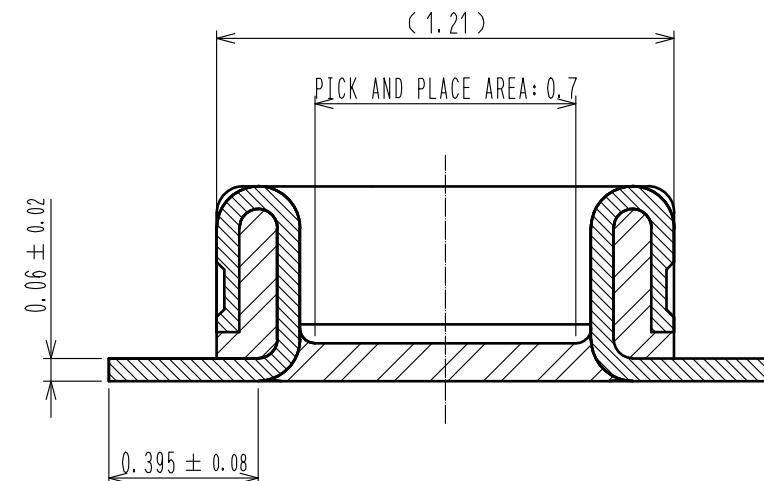


| PART No.                 | CODE No.         | B    | C    |
|--------------------------|------------------|------|------|
| BM20B(0.6)-10DP-0.4V(53) | CL0684-9300-6-53 | 3.4  | 2.4  |
| BM20B(0.6)-20DP-0.4V(53) | CL0684-9301-9-53 | 5.4  | 4.4  |
| BM20B(0.6)-24DP-0.4V(53) | CL0684-9302-1-53 | 6.2  | 5.2  |
| BM20B(0.6)-30DP-0.4V(53) | CL0684-9303-4-53 | 7.4  | 6.4  |
| BM20B(0.6)-34DP-0.4V(53) | CL0684-9304-7-53 | 8.2  | 7.2  |
| BM20B(0.6)-40DP-0.4V(53) | CL0684-9305-0-53 | 9.4  | 8.4  |
| BM20B(0.6)-50DP-0.4V(53) | CL0684-9306-2-53 | 11.4 | 10.4 |

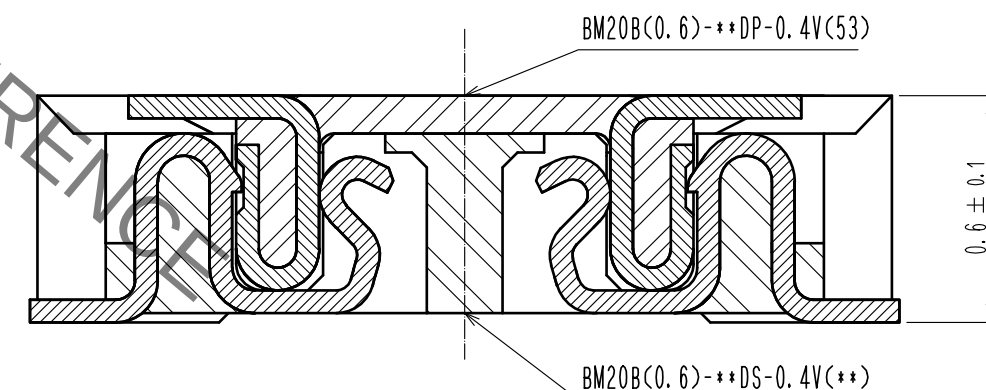
NOTE 1 . ALL LEAD CO-PLANARITY SHALL BE 0.08mm MAX

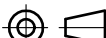
- 2 . CONTACT PLATING SPECIFICATIONS  
CONTACT AREA : GOLD 0.05μm MIN  
SMT LEAD : GOLD 0.05μm MIN  
UNDER PLATING : NICKEL 1μm MIN  
( SURFACE : SEALING )
- 3 . EACH CONTACTS AT 4 CORNERS ARE PROVIDED FOR METAL FITTINGS.
- 4 . HRS MARK AND CAV No. ARE INDICATED IN APPROX. POSITION SHOWN.
- 5 . A PART OF THE WALL COULD BE NOTCHED.

A-A (50:1)

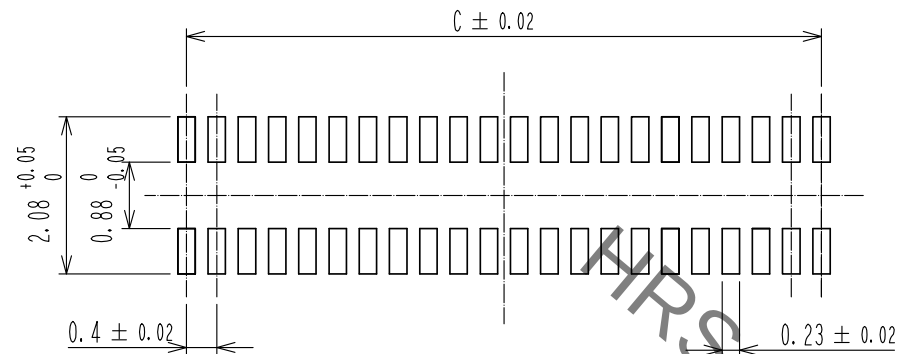


ENGAGEMENT FIGURE (50:1)

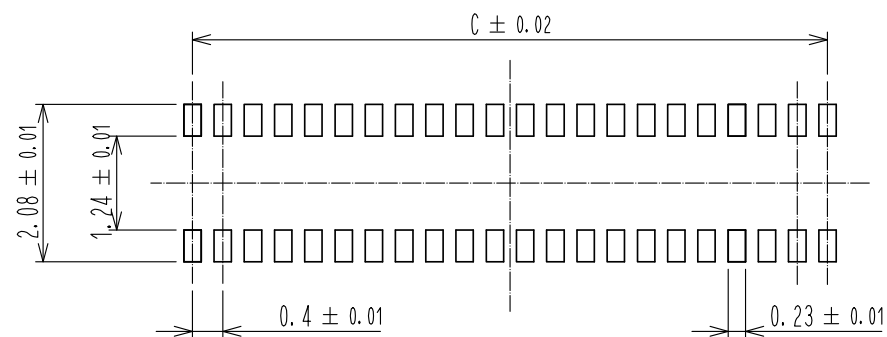


|                                                                                                                 |                                                                                       |                               |                                                                                       |       |                          |                                                                                           |          |         |      |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------|-------|--------------------------|-------------------------------------------------------------------------------------------|----------|---------|------|
| 3                                                                                                               | PS                                                                                    | CLEAR (EMBOSSED CARRIER TAPE) |                                                                                       | 6     | PS                       | CLEAR (REINFORCEMENT COLLAR)                                                              |          |         |      |
| 2                                                                                                               | PHOSPHOR BRONZE                                                                       | 2                             |                                                                                       | 5     | PS                       | BLACK (PLASTIC REEL)                                                                      |          |         |      |
| 1                                                                                                               | LCP                                                                                   | UL94 V-0, BLACK               |                                                                                       | 4     | POLYESTER                | CLEAR (COVER TAPE)                                                                        |          |         |      |
| NO.                                                                                                             | MATERIAL                                                                              | FINISH , REMARKS              |                                                                                       | NO.   | MATERIAL                 | FINISH , REMARKS                                                                          |          |         |      |
| UNITS<br>mm                                                                                                     |  | SCALE<br>10 : 1               |  | COUNT | DESCRIPTION OF REVISIONS |                                                                                           | DESIGNED | CHECKED | DATE |
|  HIROSE ELECTRIC CO., LTD. |                                                                                       | APPROVED                      | MO. ISHIDA                                                                            |       | 15. 04. 21               | DRAWING NO. EDC-351137-53-01                                                              |          |         |      |
|                                                                                                                 |                                                                                       | CHECKED                       | TS. MIYAZAKI                                                                          |       | 15. 04. 21               | PART NO. BM20B(0.6)-*DP-0.4V(53)                                                          |          |         |      |
|                                                                                                                 |                                                                                       | DESIGNED                      | RT. SHIMIZU                                                                           |       | 15. 04. 21               | CODE NO. CL684                                                                            |          |         |      |
|                                                                                                                 |                                                                                       | DRAWN                         | KR. AJITO                                                                             |       | 15. 04. 10               |  1/1 |          |         |      |

7 RECOMMENDED PCB LAYOUT

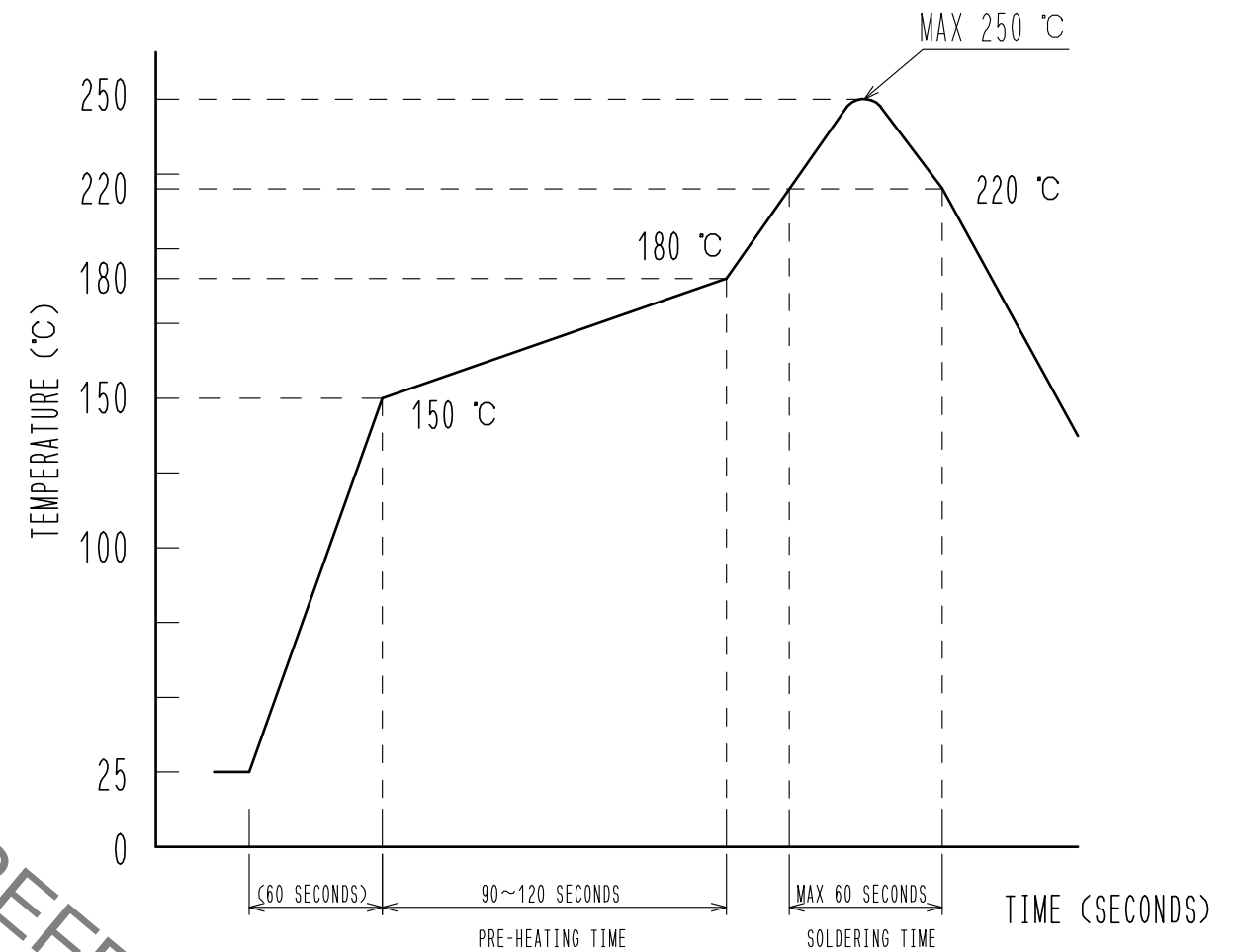


RECOMMENDED METAL MASK DIMENSIONS  
METAL MASK THICKNESS :  $100 \mu\text{m}$



| PART No.                 | C    |
|--------------------------|------|
| BM20B(0.6)-10DP-0.4V(53) | 2.4  |
| BM20B(0.6)-20DP-0.4V(53) | 4.4  |
| BM20B(0.6)-24DP-0.4V(53) | 5.2  |
| BM20B(0.6)-30DP-0.4V(53) | 6.4  |
| BM20B(0.6)-34DP-0.4V(53) | 7.2  |
| BM20B(0.6)-40DP-0.4V(53) | 8.4  |
| BM20B(0.6)-50DP-0.4V(53) | 10.4 |

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.

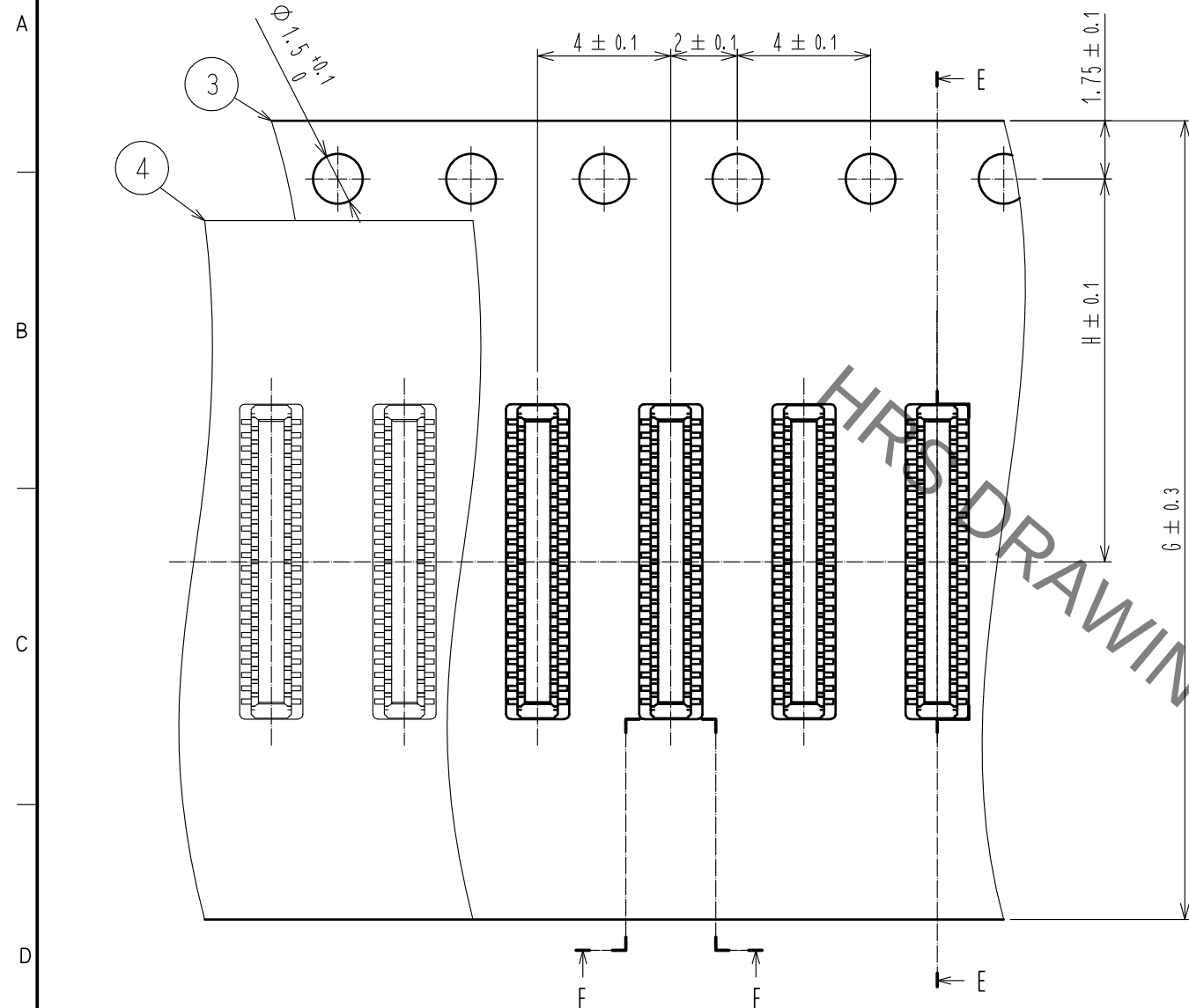
- 6 THIS TEMPERATURE PROFILE IS PER THE CONDITIONS SHOWN ABOVE. ADDITIONAL FACTORS, SUCH AS SOLDER PASTE TYPE, PCB SIZE AND OTHER MOUNTED COMPONENTS COULD AFFECT THE PROFILE, THEREFORE, A THOROUGH EVALUATION OF MOUNTING COONDITION IS REQUIRED PRIOR TO PRODUCTION. TEPERATURE IS MEASURED AT CONTACT LEAD.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

HRS

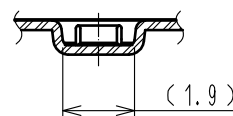
|             |                         |
|-------------|-------------------------|
| DRAWING NO. | EDC-351137-53-01        |
| PART NO.    | BM20B(0.6)-*DP-0.4V(53) |
| CODE NO.    | CL684                   |

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

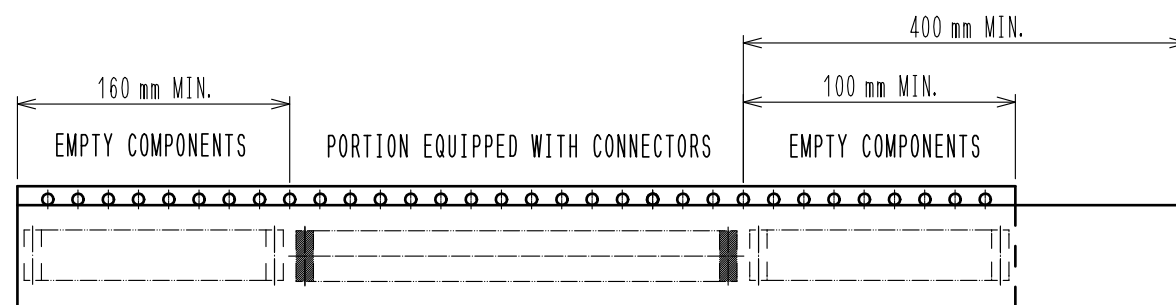
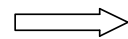
## EMBOSSED CARRIER TAPE PACKAGING (5:1)



F-F (5:1)



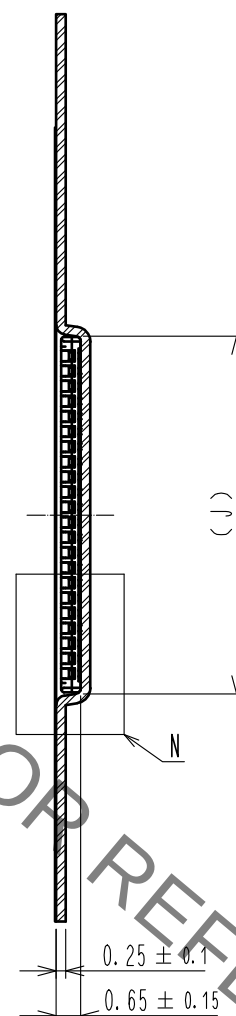
DIRECTION OF UNREELING



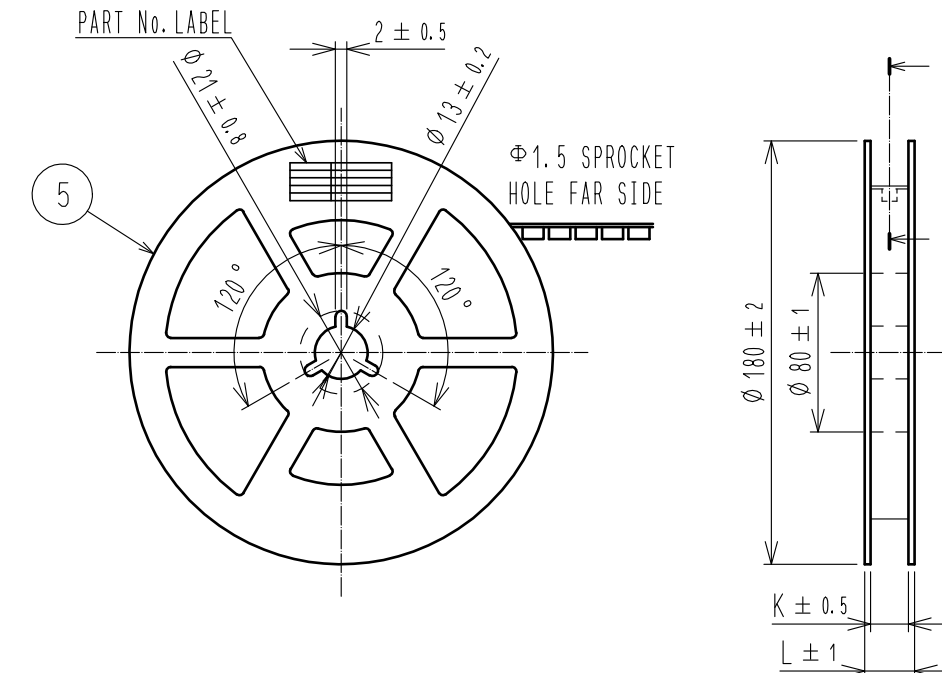
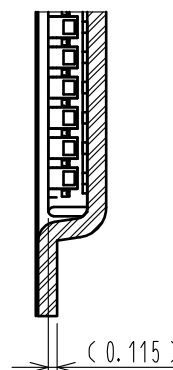
10 TAPING (FREE)

## STYLE AND DIMENTION OF REEL (FREE)

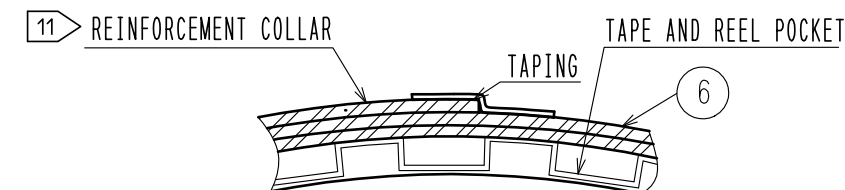
E-E (5:1)



N (10:1)



M-M (FREE)



## DETAIL OF PART No. LABEL

|       |                         |
|-------|-------------------------|
| 製造年月日 | ** ** *                 |
| 製品コード | CL0684-****-(53)        |
| 製品名   | BM20B(0.6)-*DP-0.4V(53) |
| 数量    | 1,000                   |
| 納入者   | ヒロセ電機(株)                |

DATE OF MANUFACTURED  
CODE No.  
PART No.  
QUANTITY  
SUPPLIER

| PART No.                 | G  | H    | J     | K    | L    |
|--------------------------|----|------|-------|------|------|
| BM20B(0.6)-10DP-0.4V(53) | 12 | 5.5  | 3.46  | 13.5 | 17.5 |
| BM20B(0.6)-20DP-0.4V(53) | 16 | 7.5  | 5.46  | 17.5 | 21.5 |
| BM20B(0.6)-24DP-0.4V(53) | 16 | 7.5  | 6.26  | 17.5 | 21.5 |
| BM20B(0.6)-30DP-0.4V(53) | 16 | 7.5  | 7.46  | 17.5 | 21.5 |
| BM20B(0.6)-34DP-0.4V(53) | 24 | 11.5 | 8.26  | 25.5 | 29.5 |
| BM20B(0.6)-40DP-0.4V(53) | 24 | 11.5 | 9.46  | 25.5 | 29.5 |
| BM20B(0.6)-50DP-0.4V(53) | 24 | 11.5 | 11.46 | 25.5 | 29.5 |

8 . PER REEL 1,000 CONNECTORS.

9 . THE DIMENTIONS IN PARENTHESES ARE FOR REFFERENCE.

10 . REFER TO JIS C 0806, IEC-30286-3(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.

**HRS**

|             |                         |
|-------------|-------------------------|
| DRAWING NO. | EDC-351137-53-01        |
| PART NO.    | BM20B(0.6)-*DP-0.4V(53) |
| CODE NO.    | CL684                   |

3/3

# Mouser Electronics

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