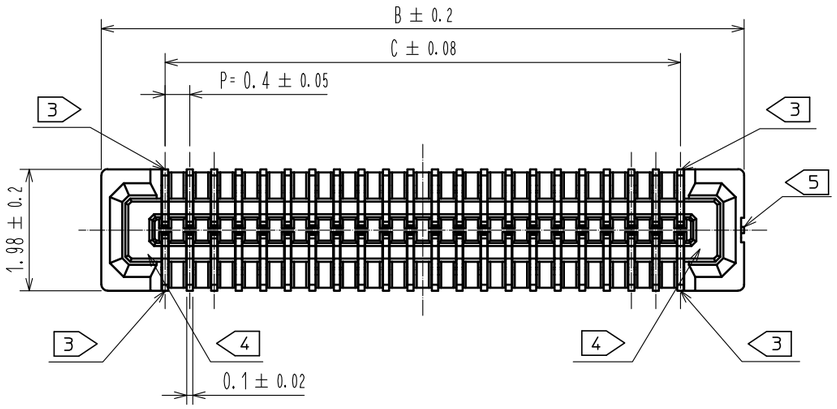
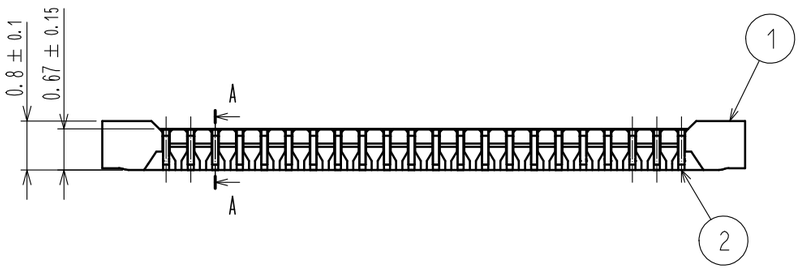
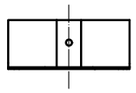
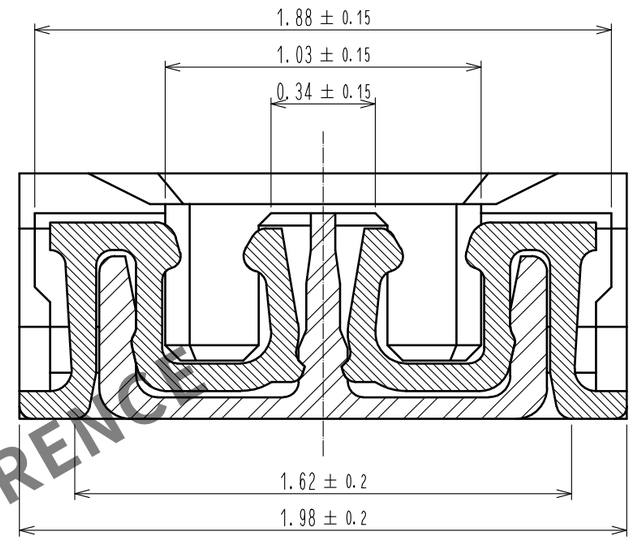
Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.



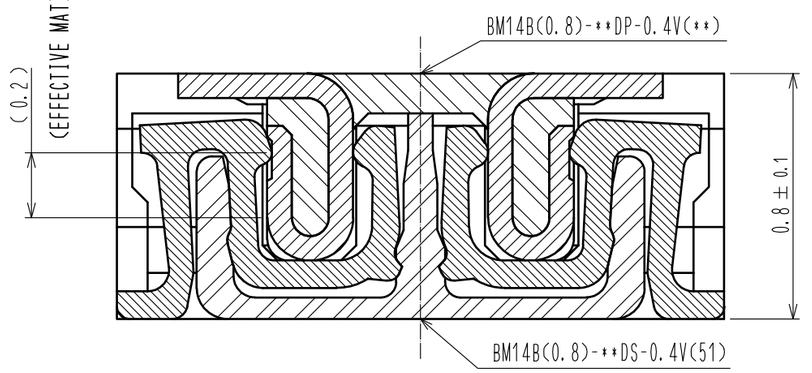




A-A (50:1)



ENGAGEMENT FIGURE (50:1)



HRS DRAWING FOR REFERENCE

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 > EACH CONTACTS AT 4 CORNERS ARE PROVIDED FOR METAL FITTINGS AND GROUNDING PURPOSE.
4 > HRS MARK AND CAV NO. ARE INDICATED IN APPROX POSITION SHOWN.
5 > GATE POSITION IS INDICATED IN APPROX POSITION SHOWN.

PART No.	CODE No.	B	C
BM14B(0.8)-10DS-0.4V(51)	CL684-8003-5-51	4.48	2.4
BM14B(0.8)-12DS-0.4V(51)	CL684-8041-4-51	4.88	2.8
BM14B(0.8)-20DS-0.4V(51)	CL684-8004-8-51	6.48	4.4
BM14B(0.8)-22DS-0.4V(51)	–	6.88	4.8
BM14B(0.8)-24DS-0.4V(51)	CL684-8005-0-51	7.28	5.2
BM14B(0.8)-30DS-0.4V(51)	CL684-8006-3-51	8.48	6.4
BM14B(0.8)-34DS-0.4V(51)	CL684-8007-6-51	9.28	7.2
BM14B(0.8)-40DS-0.4V(51)	CL684-8008-9-51	10.48	8.4
BM14B(0.8)-50DS-0.4V(51)	CL684-8009-1-51	12.48	10.4
BM14B(0.8)-60DS-0.4V(51)	CL684-8001-0-51	14.48	12.4

NO.	MATERIAL	FINISH , REMARKS	NO.	MATERIAL	FINISH , REMARKS
3	PS	CLEAR (ENBOSSED 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)

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	10 : 1	A	1	DIS-H-00003048	NY. YAMASHIRO	TS. MIYAZAKI	17.09.29

HIROSE ELECTRIC CO., LTD.

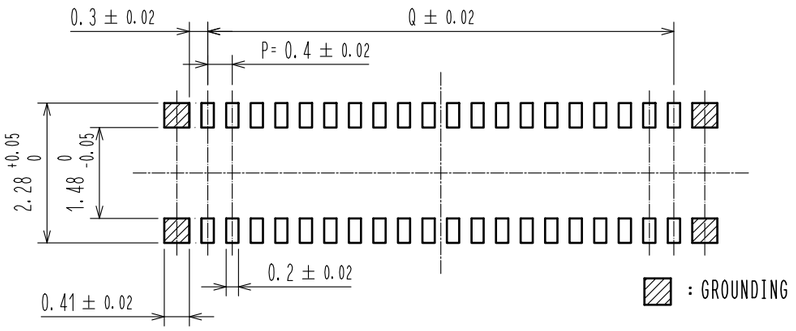
APPROVED	KH. IKEDA	09.11.24
CHECKED	WR. FUKUCHI	09.11.24
DESIGNED	YH. HASEGAWA	09.11.20
DRAWN	YH. HASEGAWA	09.11.20

DRAWING NO. EDC3-322327-04
PART NO. BM14B(0.8)-*DS-0.4V(51)
CODE NO. CL684
A 1/3

FORM HC0011-5-7

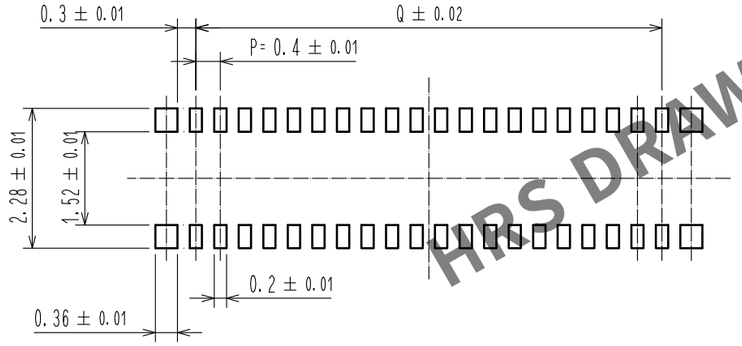
Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

♦ RECOMMENDED PCB LAYOUT



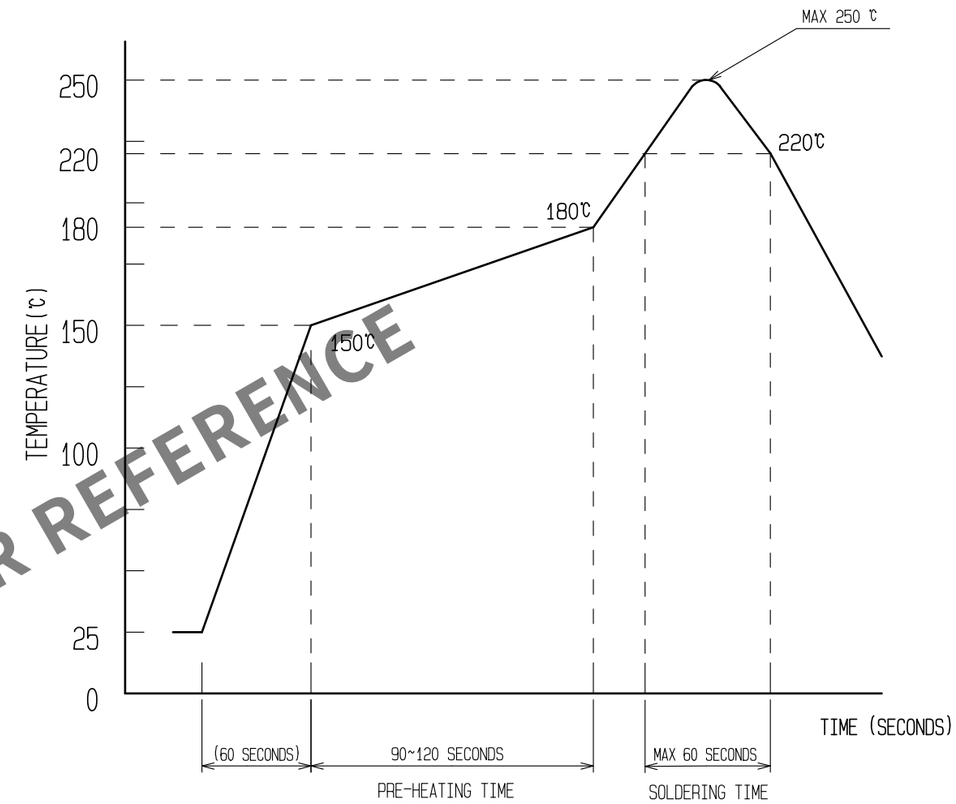
♦ RECOMMENDED METAL MASK DIMENSIONS

METAL MASK THICKNESS : 100μm



PART No.	Q
BM14B(0.8)-10DS-0.4V(51)	1.6
BM14B(0.8)-12DS-0.4V(51)	2.0
BM14B(0.8)-20DS-0.4V(51)	3.6
BM14B(0.8)-22DS-0.4V(51)	4.0
BM14B(0.8)-24DS-0.4V(51)	4.4
BM14B(0.8)-30DS-0.4V(51)	5.6
BM14B(0.8)-34DS-0.4V(51)	6.4
BM14B(0.8)-40DS-0.4V(51)	7.6
BM14B(0.8)-50DS-0.4V(51)	9.6
BM14B(0.8)-60DS-0.4V(51)	11.6

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℃, 60 SEC. MAX.
(PEAK TEMPERATURE: 250℃ MAX)
2) PRE-HEAT TIME
PRE-HEAT TEMPERATURE(MIN): 150℃
PRE-HEAT TEMPERATURE(MAX): 180℃
PRE-HEAT TIME: 90-120 sec.

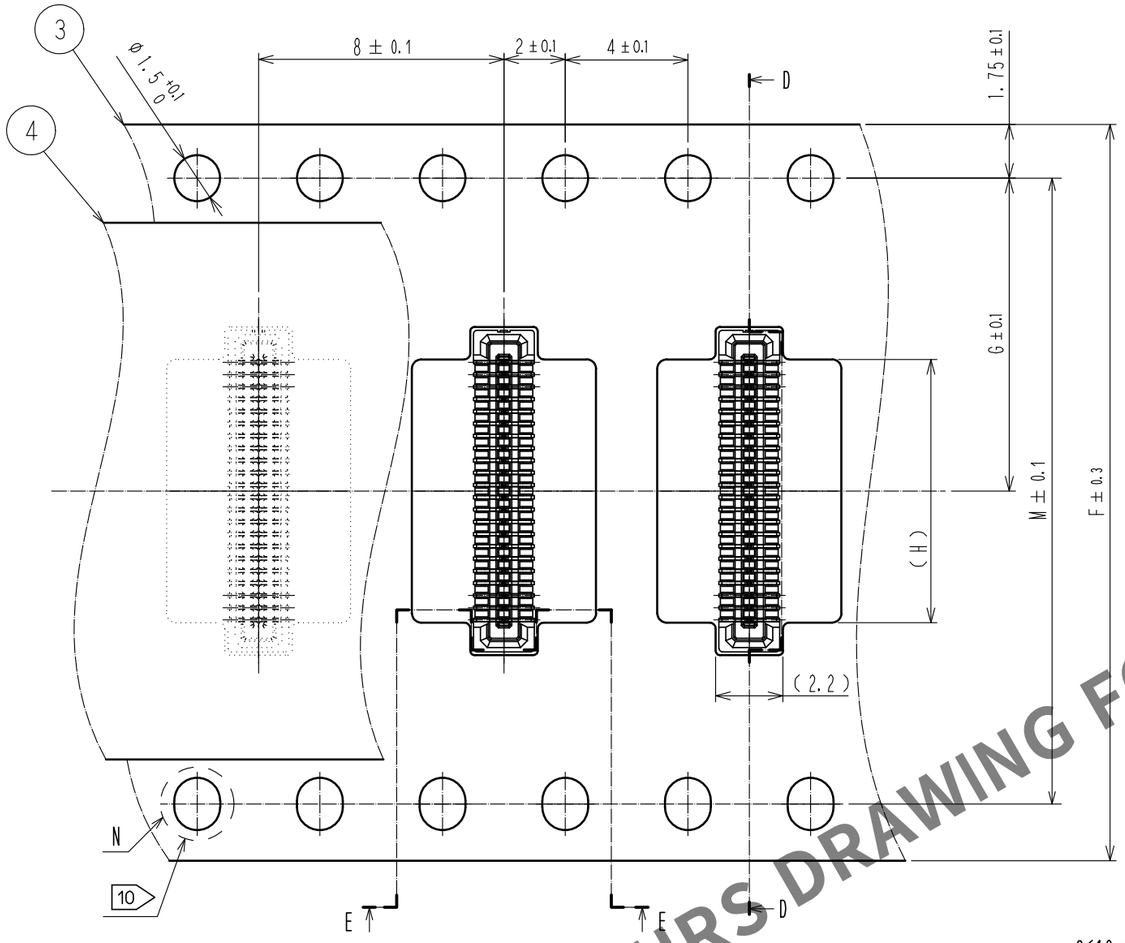
⑥ THIS TEMPERATURE PROFILE IS PER THE CONDITIONS SHOWN ABOVE. ADDISIONAL FACTORS, SUCH AS SOLDER PASTE TYPE, PCB SIZE AND OTHER MOUNTED COMPONENTS COULD AFFECT THE PROFILE, THEREFORE, A THOROUGH EVALUATION OF MOUNTING CONDITION IS REQUIRED PRIOR TO PRODUCTION. TEMPERATURE IS MEASURED AT CONTACT LEAD.

HRS DRAWING FOR REFERENCE

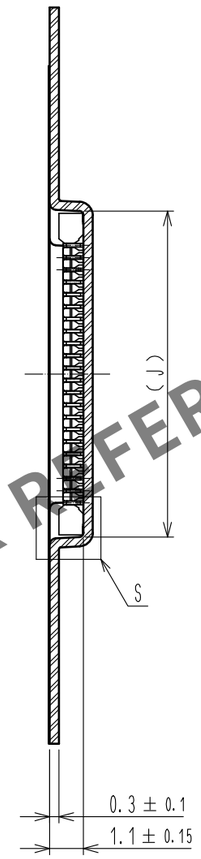
HRS	DRAWING NO.	EDC3-322327-04
	PART NO.	BM14B(0.8)-*DS-0.4V(51)
	CODE NO.	CL684

Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

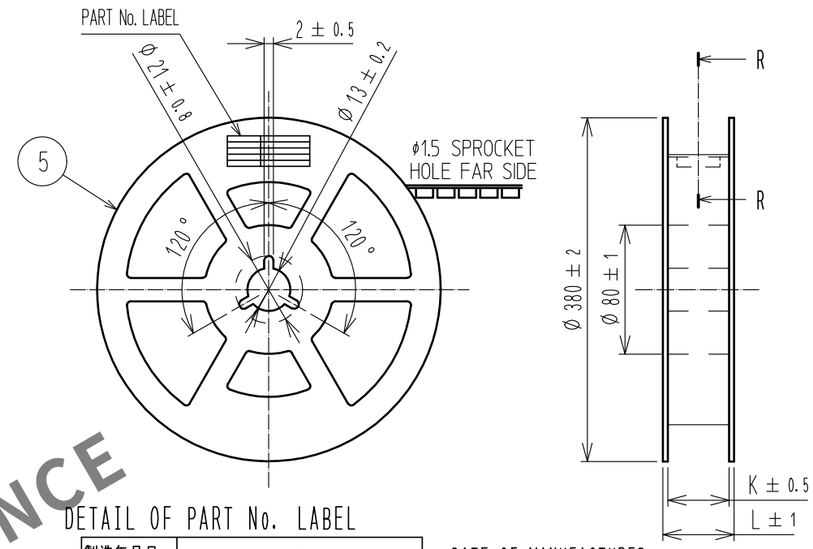
EMBOSSED CARRIER TAPE PACKAGING (5:1)



D-D (5:1)



STYLE AND DIMENTION OF REEL (FREE)

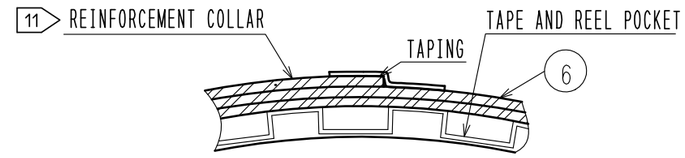


DETAIL OF PART No. LABEL

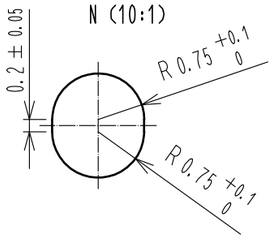
製造年月日	** ** **
製品コード	CL684-*****-**-**
製品名	BM14B(0.8)-*DS-0.4V(51)
数量	8,000
納入者	ヒロセ電機(株)

DATE OF MANUFACTURED
CODE No.
PART No.
QUANTITY
SUPPLIER

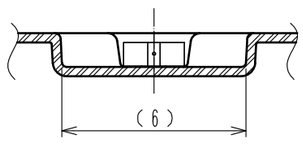
R-R (FREE)



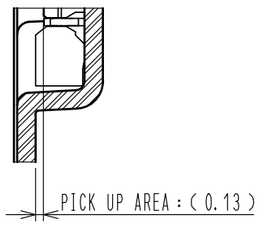
N (10:1)



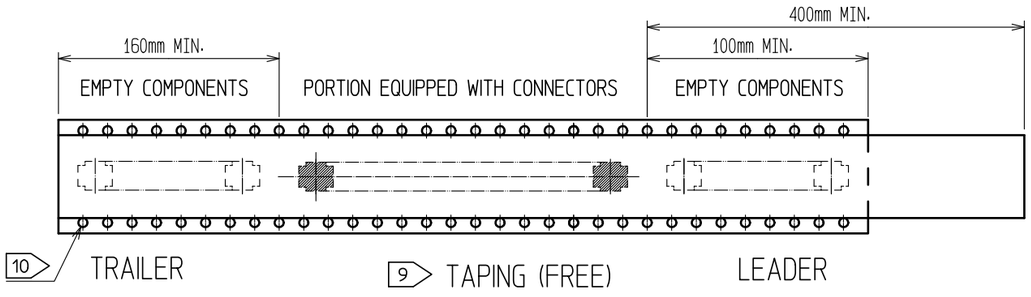
E-E (5:1)



S(10:1)



DIRECTION OF UNREELING



PART No.	F	G	H	J	K	L	M
BM14B(0.8)-10DS-0.4V(51)	16	7.5	2.58	4.7	17.5	21.5	—
BM14B(0.8)-12DS-0.4V(51)	16	7.5	2.98	5.1	17.5	21.5	—
BM14B(0.8)-20DS-0.4V(51)	16	7.5	4.58	6.7	17.5	21.5	—
BM14B(0.8)-22DS-0.4V(51)	16	7.5	4.98	7.1	17.5	21.5	—
BM14B(0.8)-24DS-0.4V(51)	16	7.5	5.38	7.5	17.5	21.5	—
BM14B(0.8)-30DS-0.4V(51)	24	11.5	6.58	8.7	25.5	29.5	—
BM14B(0.8)-34DS-0.4V(51)	24	11.5	7.38	9.5	25.5	29.5	—
BM14B(0.8)-40DS-0.4V(51)	24	11.5	8.58	10.7	25.5	29.5	—
BM14B(0.8)-50DS-0.4V(51)	24	11.5	10.58	12.7	25.5	29.5	—
BM14B(0.8)-60DS-0.4V(51)	24	11.5	12.58	14.7	25.5	29.5	—

7. PER REEL 8000 CONNECTORS.
8. THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.
9. REFER TO JIS C 0806(PACKAGING OF COMPONENTS FOR AUTOMATIC HANDLING)
10. EMBOSSED CARRIER TAPE USED ON 10 TO 60 POSITIONS HAS THE SPROCKET HOLE ON ONE SIDE.
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 FOR REFERENCE

DRAWING NO.	EDC3-322327-04
PART NO.	BM14B(0.8)-*DS-0.4V(51)
CODE NO.	CL684
	7 3/3