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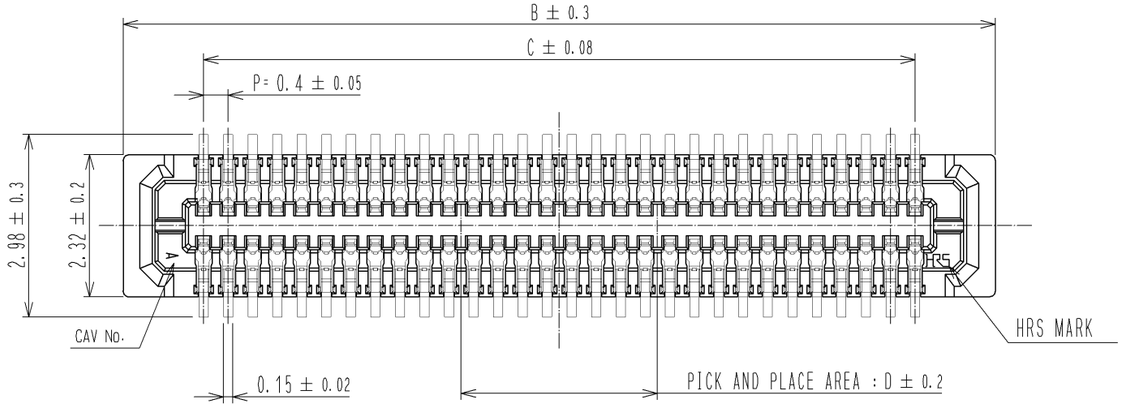
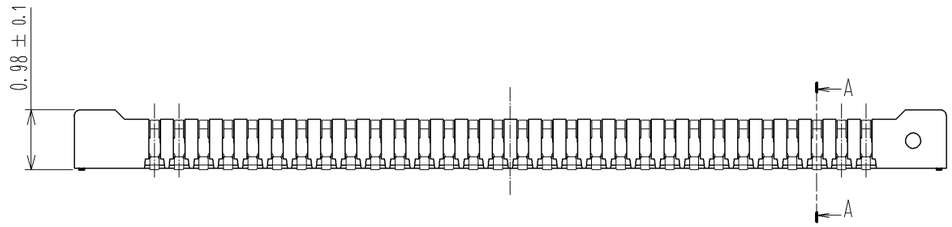
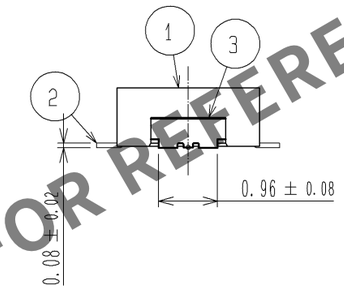
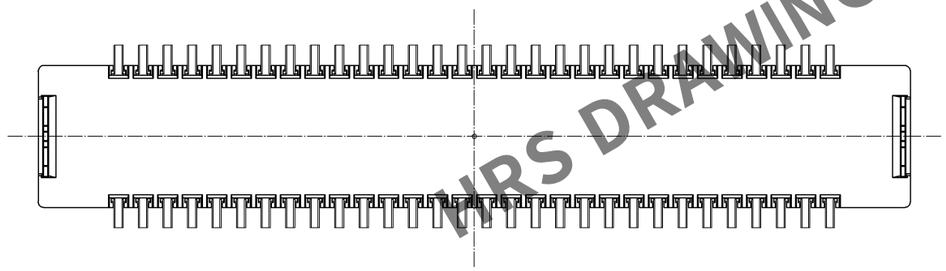
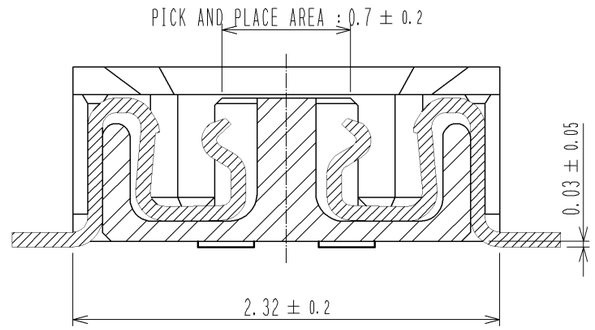




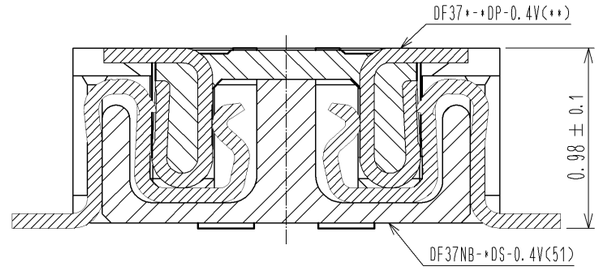




A-A (FREE SIZE)



ENGAGEMENT FIGURE (FREE SIZE)



PART No.	CL No.	B	C	D
DF37NB-10DS-0.4V(51)	CL684-3301-6-51	4.22	1.6	0.8
DF37NB-16DS-0.4V(51)	CL684-3302-9-51	5.42	2.8	1.2
DF37NB-20DS-0.4V(51)	CL684-3303-1-51	6.22	3.6	1.6
DF37NB-24DS-0.4V(51)	CL684-3304-4-51	7.02	4.4	2.0
DF37NB-30DS-0.4V(51)	CL684-3305-7-51	8.22	5.6	2.0
DF37NB-34DS-0.4V(51)	CL684-3082-4-51	9.02	6.4	2.4
DF37NB-40DS-0.4V(51)	CL684-3306-0-51	10.22	7.6	2.4
△1 DF37NB-44DS-0.4V(51)	CL684-3407-7-51	11.02	8.4	2.8
DF37NB-50DS-0.4V(51)	CL684-3307-2-51	12.22	9.6	2.8
DF37NB-60DS-0.4V(51)	CL684-3308-5-51	14.22	11.6	3.2
DF37NB-70DS-0.4V(51)	CL684-3409-2-51	16.22	13.6	3.6
DF37NB-74DS-0.4V(51)	CL684-3080-9-51	17.02	14.4	4.0

NOTE 1. ALL LEADS CO-PLANARITY SHALL BE 0.1mm MAX.
2 CONTACT PLATING SPECIFICATIONS.
CONTACT AREA : GOLD 0.05μm MIN.
SMT LEAD : GOLD 0.05μm MIN.
UNDERPLATING : NICKEL 1μm MIN.
(SURFACE : SEALING)
3 METAL HOLD DOWN PLATING SPECIFICATIONS.
MOUNTING AREA: GOLD 0.05μm MIN.
UNDERPLATING : NICKEL 1μm MIN.

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
3	PHOSPHOR BRONZE	3	6	PS	PLASTIC REEL(BLACK)
2	PHOSPHOR BRONZE	2	5	POLYESTER	CLEAR(COVER TAPE)
1	LCP	UL94V-0, BLACK	4	PS	CLEAR(EMBOSSED CARRIER TAPE)

UNITS	SCALE		COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	FREE	△1	3	DIS-H-005494	KR. AJITO	TS. MIYAZAKI	11.02.04

HIROSE ELECTRIC CO., LTD.

APROVED	: KH. IKEDA	09.10.23
CHECED	: TS. MIYAZAKI	09.10.23
DISIGNED	: RT. SHIMIZU	09.10.23
DRAWN	: YN. SAKAMOTO	09.10.20

DRAWING NO. EDC3-319685-02
PART NO. DF37NB-*DS-0.4V(51)
CODE NO.
△1 1/3

HRS DRAWING FOR REFERENCE

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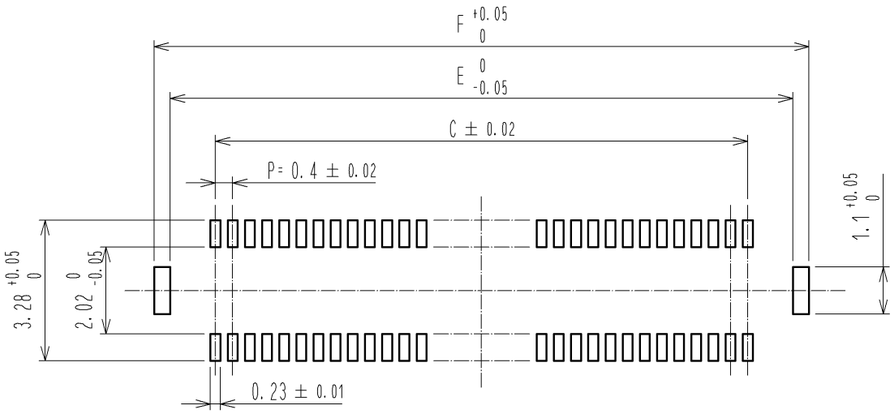
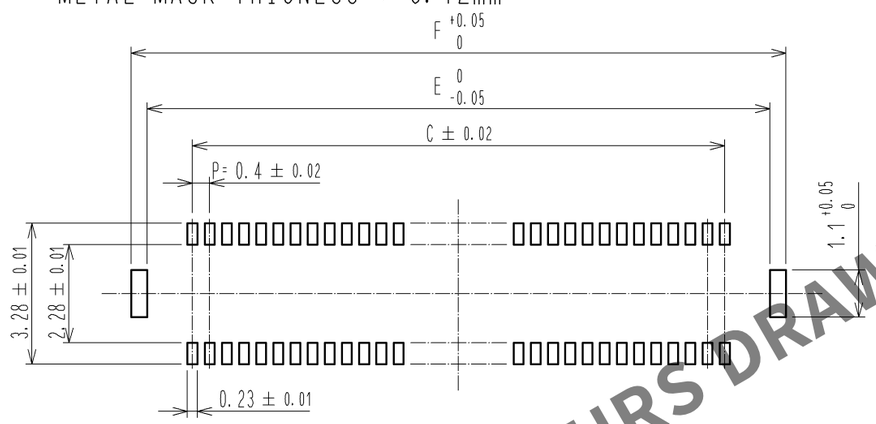
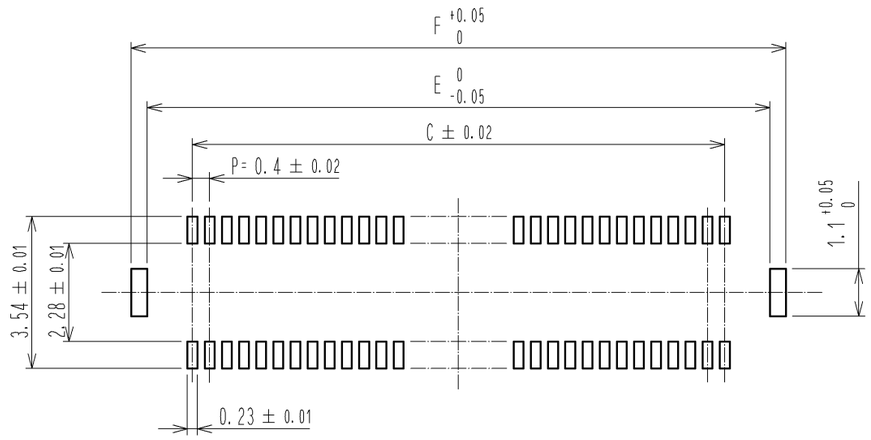
RECOMMENDED PCB LAYOUT(MOUNTING SURFACE SIDE)



RECOMMENDED METAL MASK DIMENSIONS
METAL MASK THICNESS : 0.12mm

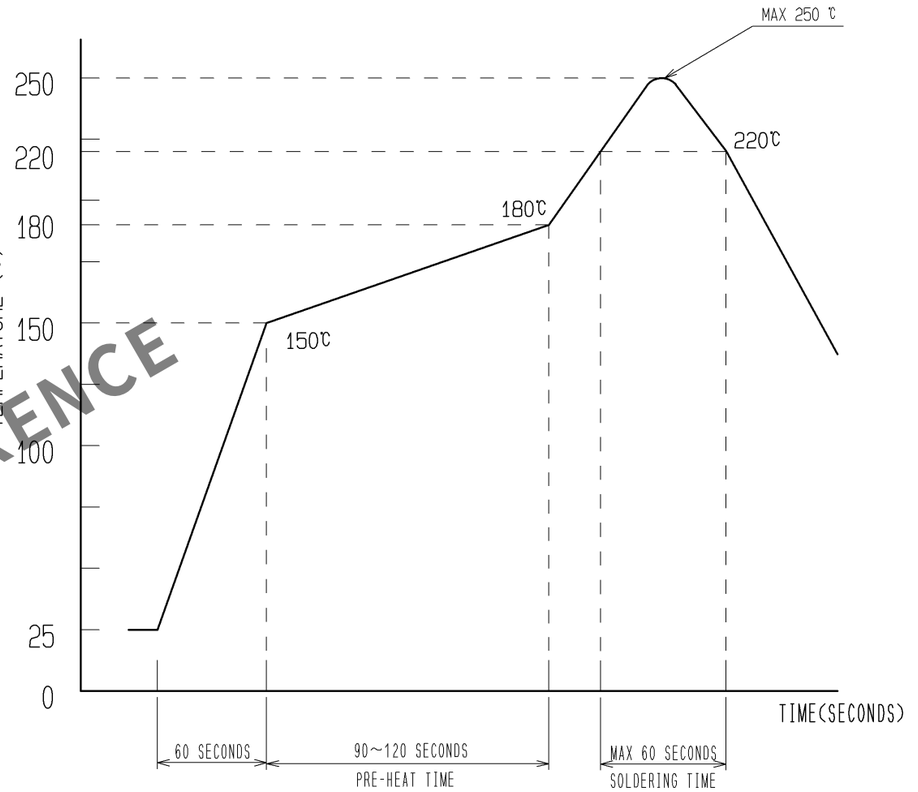


RECOMMENDED METAL MASK DIMENSIONS
METAL MASK THICNESS : 0.1mm



PART No.	C	E	F
DF37NB-10DS-0.4V(51)	1.6	3.7	4.46
DF37NB-16DS-0.4V(51)	2.8	4.9	5.66
DF37NB-20DS-0.4V(51)	3.6	5.7	6.46
DF37NB-24DS-0.4V(51)	4.4	6.5	7.26
DF37NB-30DS-0.4V(51)	5.6	7.7	8.46
DF37NB-34DS-0.4V(51)	6.4	8.5	9.26
DF37NB-40DS-0.4V(51)	7.6	9.7	10.46
DF37NB-44DS-0.4V(51)	8.4	10.5	11.26
DF37NB-50DS-0.4V(51)	9.6	11.7	12.46
DF37NB-60DS-0.4V(51)	11.6	13.7	14.46
DF37NB-70DS-0.4V(51)	13.6	15.7	16.46
DF37NB-74DS-0.4V(51)	14.4	16.5	17.26

4 RECOMMENDED REFLOW TEMPERATURE PLOFILE USING LEAD-FREE SOLDER PASTE.



1) REFLOW TIME
REFLOW METHOD: IR REFLOW
NUMBER OF REFLOW CYCLES: 2 CYCLES MAX.
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.

4 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.

HRS DRAWING FOR REFERENCE

DRAWING NO.	EDC3-319685-02
PART NO.	DF37NB-*DS-0.4V(51)
CODE NO.	1 2/3

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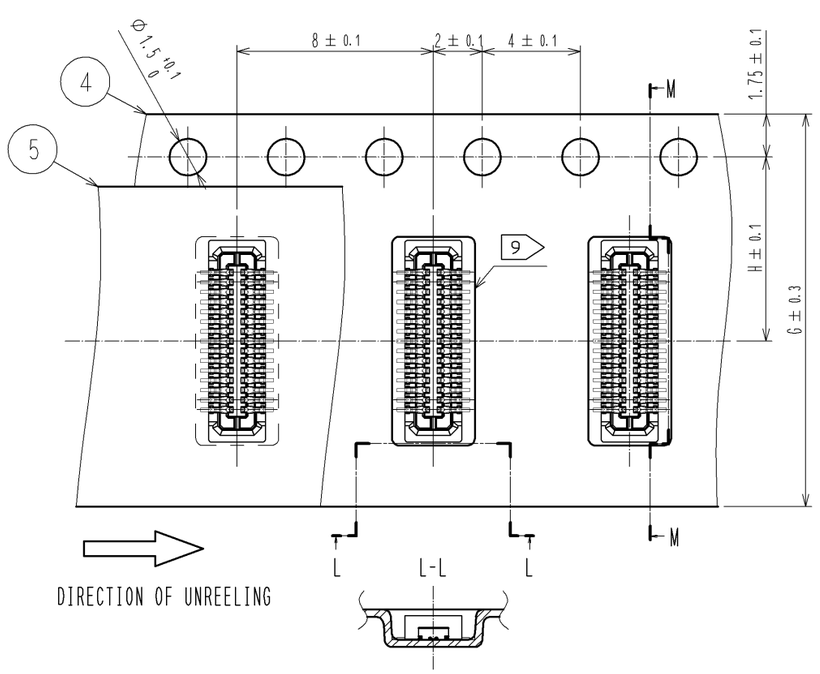
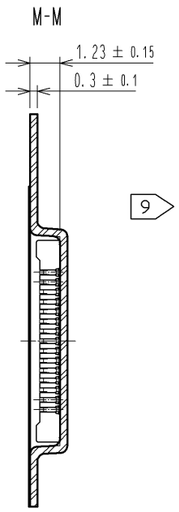
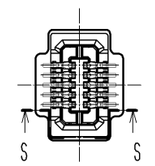
EMBOSSED CARRIER TAPE PACKAGING (FREE SIZE)

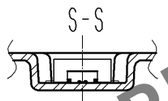
◆UNDER 60POS.



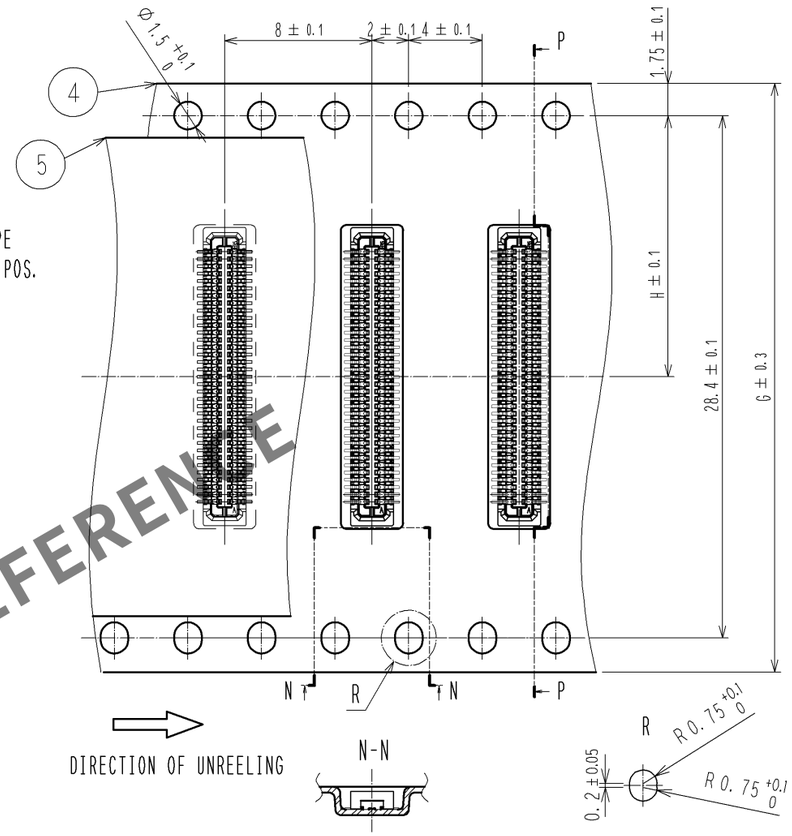


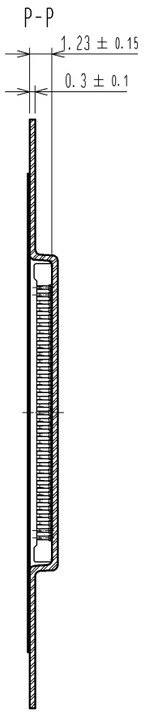
9 EMBOSSED POCKET SHAPE OF THE LESS THAN 20 POS.



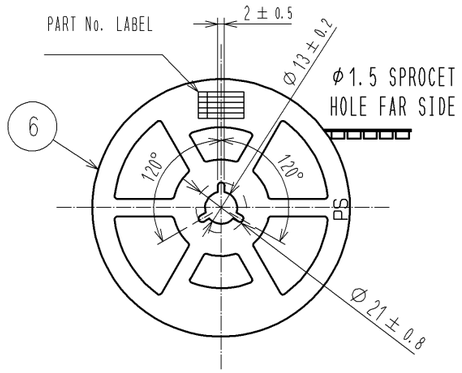


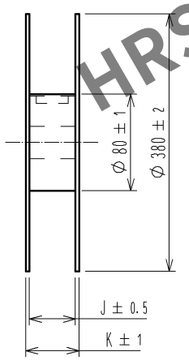
◆70 POS. AND ABOVE





STYLE AND DIMENSION OF REEL (FREE SIZE)

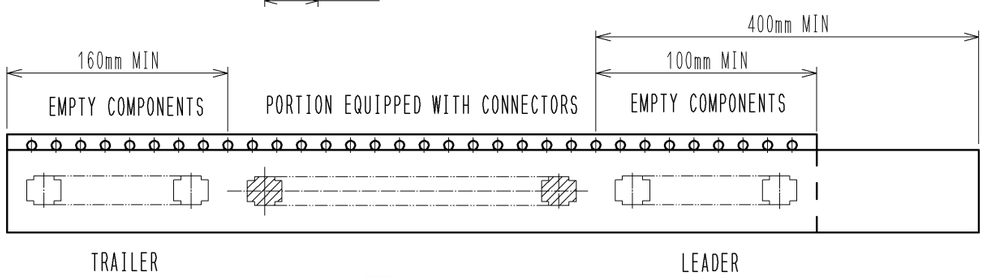




8 DETEIL OF PART No. LABEL

SUPPLIER
QUANTITY
PART NO.
CODE NO.
DATE OF MANUFACTURED

製造年月日	年　月　日
製品コード	** ** **
製品名	DF37NB-*DS-0.4V(51)
数量	8000個
納入者	ヒロセ電機(株)



7 TAPING(FREE)

PART No.	G	H	J	K
DF37NB-10DS-0.4V(51)	16	7.5	17.5	21.5
DF37NB-16DS-0.4V(51)	16	7.5	17.5	21.5
DF37NB-20DS-0.4V(51)	16	7.5	17.5	21.5
DF37NB-24DS-0.4V(51)	16	7.5	17.5	21.5
DF37NB-30DS-0.4V(51)	24	11.5	25.5	29.5
DF37NB-34DS-0.4V(51)	24	11.5	25.5	29.5
DF37NB-40DS-0.4V(51)	24	11.5	25.5	29.5
DF37NB-44DS-0.4V(51)	24	11.5	25.5	29.5
DF37NB-50DS-0.4V(51)	24	11.5	25.5	29.5
DF37NB-60DS-0.4V(51)	24	11.5	25.5	29.5
DF37NB-70DS-0.4V(51)	32	14.2	37.5	33.5
DF37NB-74DS-0.4V(51)	32	14.2	37.5	33.5

NOTES 5. PER REEL 8000 CONNECTORS.
6. THE DIMENSIONS IN PARENTHESES ARE FOR REFERENCE.
7 REFER TO JIS C 0806(PACKING OF COMPONENTS FOR AUTOMATIC HANDOLING)
8 DETAIL OF PART NO. LABEL IS WRITTEN IN JAPANESE.
9 EMBOSS POCKET OF LESS THAN 20 POS. SHALL BE CROSS.

HRS DRAWING FOR REFERENCE

HRS	DRAWING NO.	EDC3-319685-02
	PART NO.	DF37NB-*DS-0.4V(51)
	CODE NO.	1 3/3