Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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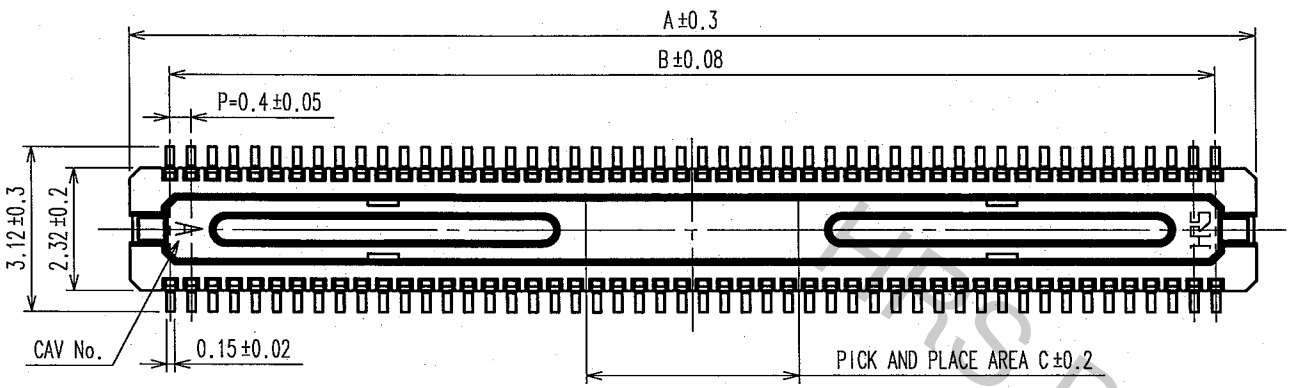
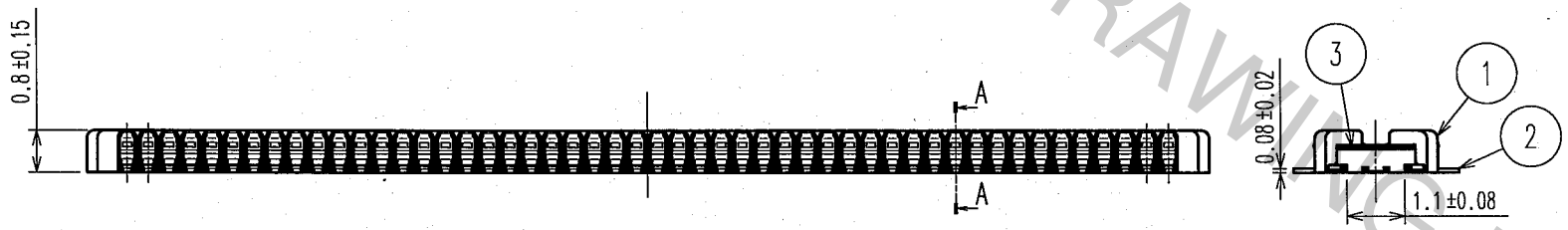
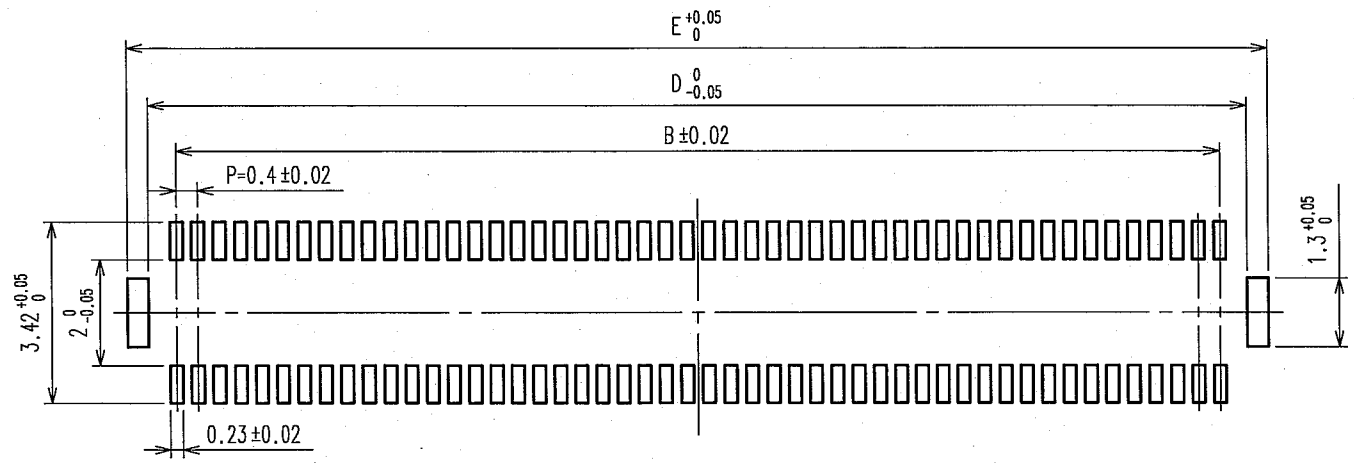


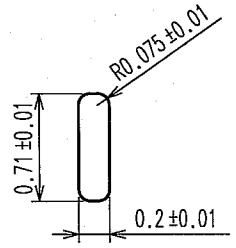


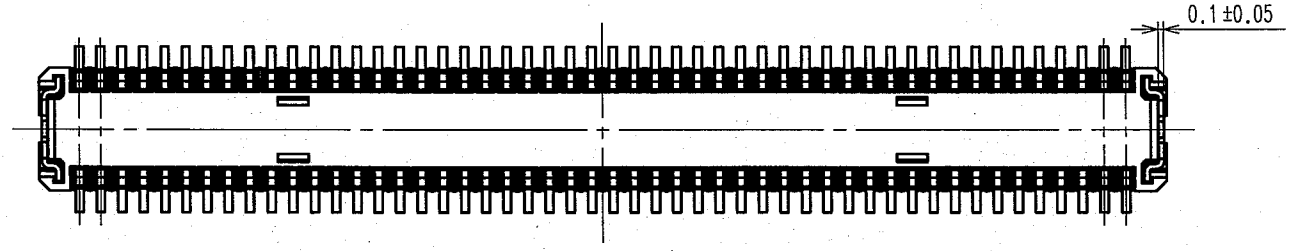
RECOMMENDED PATTERN



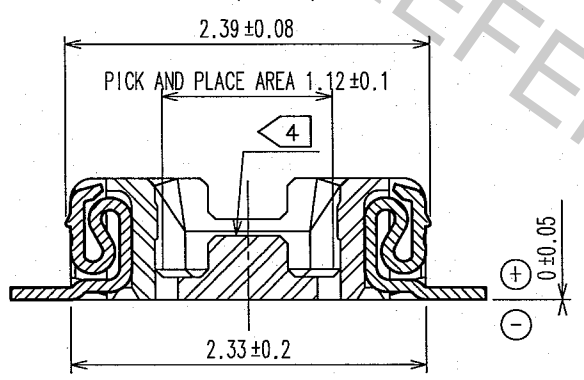
RECOMMENDED SOLDER PASTE THICKNESS: 120μm

RECOMMENDED METAL MASK OPENING DIMENSIONS FOR LEAD PAD (20:1)

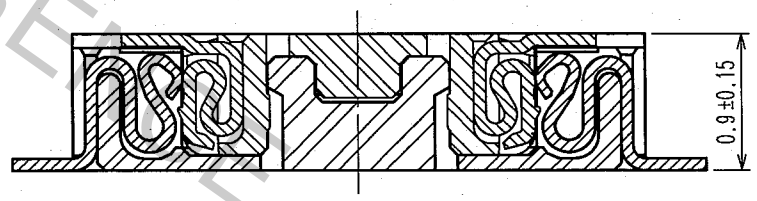




A-A(20:1)



ENGAGEMENT FIGURE(20:1)



NOTE 1. ALL LEADS CO-PLANARITY SHALL BE 0.1 MAX.
2. PER REEL : 5000 CONNECTORS.
3. AT THE BEGINNING OF THE REEL, 100 mm AT MIN SHALL BE EMPTY POCKETS.
AT THE END OF THE REEL, 160 mm AT MIN SHALL BE EMPTY POCKETS.
4. NO CAVITY ON THE CONNECTORS LESS THAN 24 POS.
5. CONTACT PLATING SPECIFICATIONS.
CONTACT AREA : GOLD 0.05μm MIN.
SMT LEAD : GOLD 0.02μm MIN.
UNDERPLATING : NICKEL 1μm MIN.
(SURFACE : SEALING)
6. METAL HOLD DOWN PLATING SPECIFICATIONS.
MOUNTING AREA: TIN 1μm MIN.
UNDERPLATING : NICKEL 1μm MIN.

PART NO.	CODE NO.	A	B	C	D	E
DF30RB-80DP-0.4V(81)	CL684-1289-1-81	17.14	15.6	3.2	16.64	17.44
DF30RB-70DP-0.4V(81)	CL684-1288-9-81	15.14	13.6	2.8	14.64	15.44
DF30RB-60DP-0.4V(81)	CL684-1287-6-81	13.14	11.6	2.4	12.64	13.44
DF30RB-50DP-0.4V(81)	CL684-1286-3-81	11.14	9.6	2.0	10.64	11.44
DF30RB-40DP-0.4V(81)	CL684-1284-8-81	9.14	7.6	1.6	8.64	9.44
DF30RB-34DP-0.4V(81)	CL684-1283-5-81	7.94	6.4	1.36	7.44	8.24
DF30RB-30DP-0.4V(81)	CL684-1282-2-81	7.14	5.6	1.2	6.64	7.44
DF30RB-24DP-0.4V(81)	CL684-1281-0-81	5.94	4.4	1.2	5.44	6.24
DF30RB-22DP-0.4V(81)	CL684-1280-7-81	5.54	4.0	1.2	5.04	5.84
DF30RB-20DP-0.4V(81)	CL684-1279-8-81	5.14	3.6	1.2	4.64	5.44

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

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	T.ARAI '06.08.04	T.Arai '06.08.04	T.Miyazaki '06.08.04	K.Ikeda '06.08.05	. .

SCALE	DRAWING NO.	PART NO.
FREE	EDC3-312967-01	DF30RB-*DP-0.4V(81)
UNITS: mm	HRS HIROSE ELECTRIC CO., LTD	CODE NO. CL684-****-*-81 1/2

TO

FORM NO.229 (YCB)

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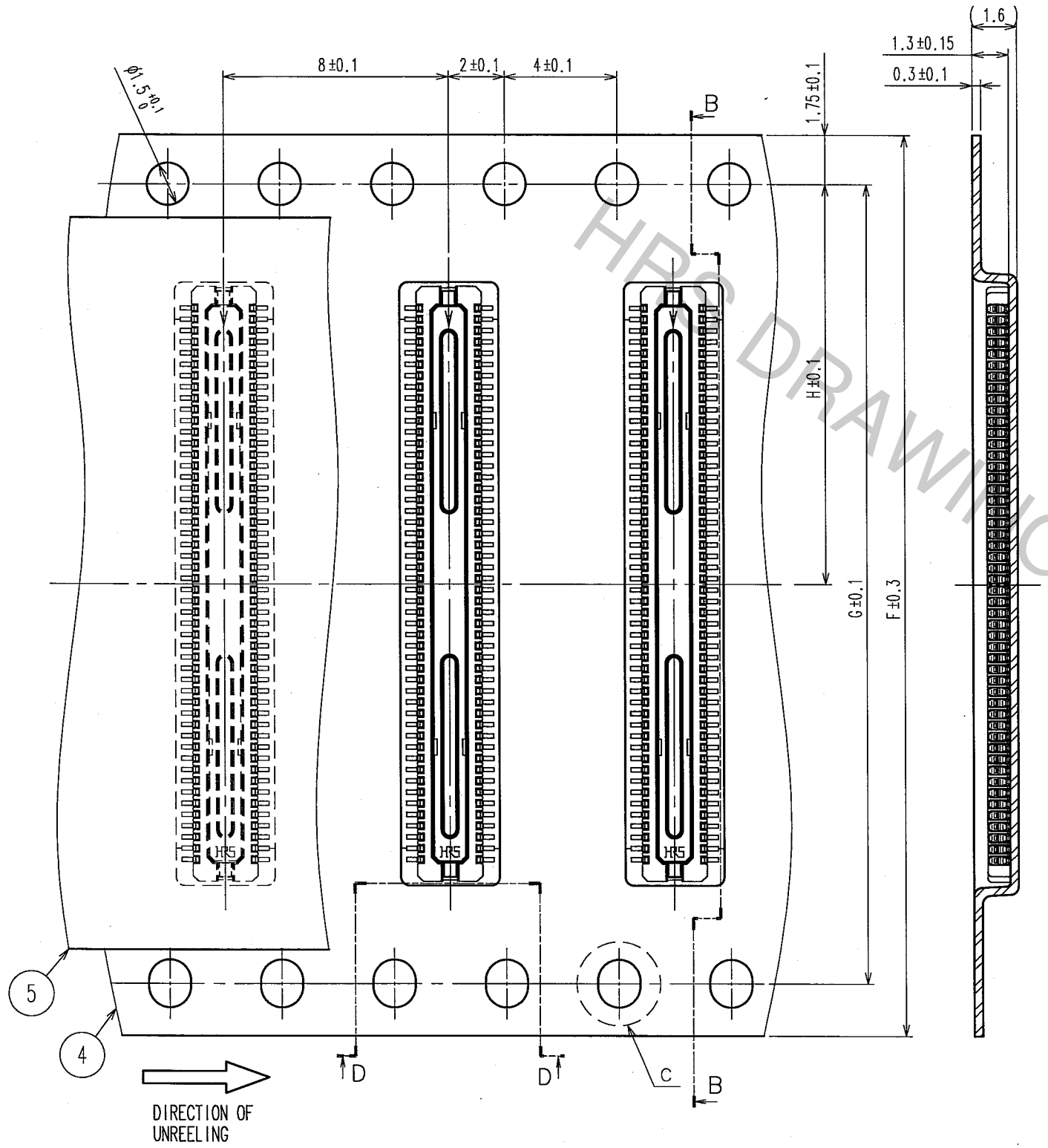
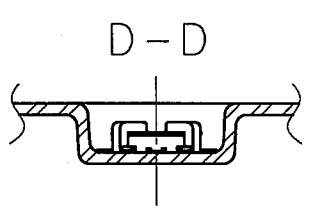
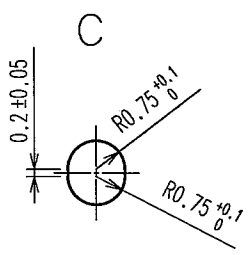
B – B



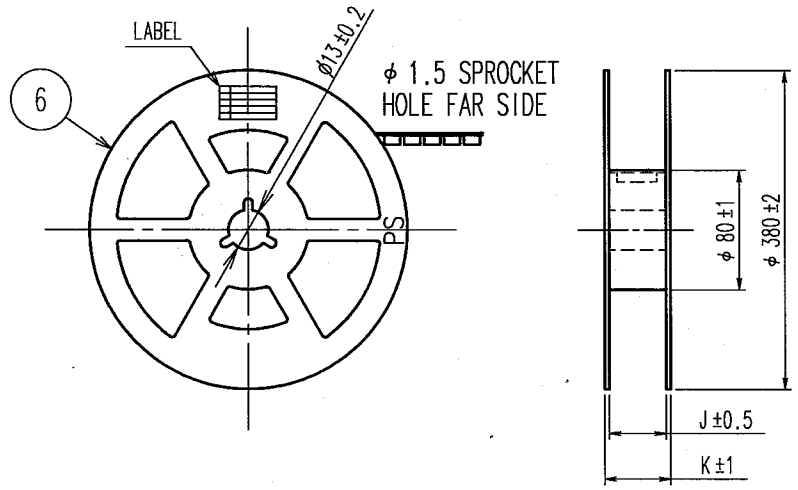
D – D



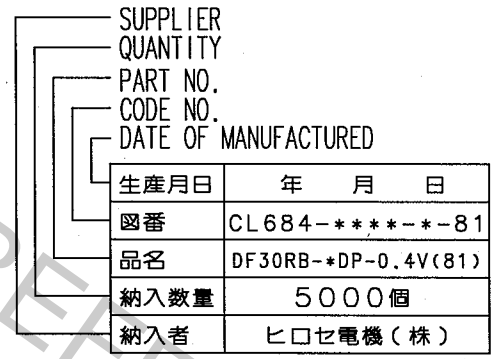
C



STYLE AND DIMENSION OF REEL (FREE SIZE)



DETAIL OF PART NO. LABEL



生産月日	年　月　日
図番	CL684-****-*-81
品名	DF30RB-*DP-0.4V(81)
納入数量	5000個
納入者	ヒロセ電機（株）

PART NO.	CODE NO.	F	G	H	J	K
DF30RB-80DP-0.4V(81)	CL684-1289-1-81	24	–	11.5	25.5	29.5
DF30RB-70DP-0.4V(81)	CL684-1288-9-81	24	–	11.5	25.5	29.5
DF30RB-60DP-0.4V(81)	CL684-1287-6-81	24	–	11.5	25.5	29.5
DF30RB-50DP-0.4V(81)	CL684-1286-3-81	24	–	11.5	25.5	29.5
DF30RB-40DP-0.4V(81)	CL684-1284-8-81	16	–	7.5	17.5	21.5
DF30RB-34DP-0.4V(81)	CL684-1283-5-81	16	–	7.5	17.5	21.5
DF30RB-30DP-0.4V(81)	CL684-1282-2-81	16	–	7.5	17.5	21.5
DF30RB-24DP-0.4V(81)	CL684-1281-0-81	16	–	7.5	17.5	21.5
DF30RB-22DP-0.4V(81)	CL684-1280-7-81	16	–	7.5	17.5	21.5
DF30RB-20DP-0.4V(81)	CL684-1279-8-81	16	–	7.5	17.5	21.5

TO

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	T.ARAI '06.08.04	T.Arai '06.08.04	T.Miyazaki '06.08.04	K.Akeda '06.08.05	. .

SCALE 5 : 1	DRAWING NO. EDC3-312967-01	PART NO. DF30RB-*DP-0.4V(81)
UNITS mm	HRS HIROSE ELECTRIC CO., LTD	CODE NO. CL684-****-*-81 2/2

FORM NO.229

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1	4	RE-H-06664	YM	TS	'04.12.17						. .
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■NOTES WHEN MATING DF30 SERIES CONNECTORS.

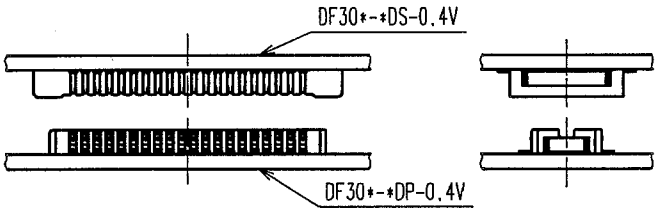

FIGURE-1

PLEASE LOCATE EACH CONNECTOR IN PARALLEL WHEN YOU PUT THEM IN MATING POSITION.

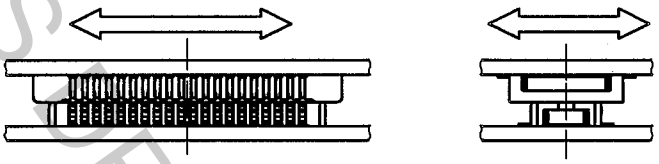

FIGURE-2

THE INSULATOR WILL BE DAMAGED AND THE CONTACTS WILL BE DEFORMED
IF THE CONNECTORS ARE LOCATED INCLINED AND MATED BY EXCESSIVE FORCE.

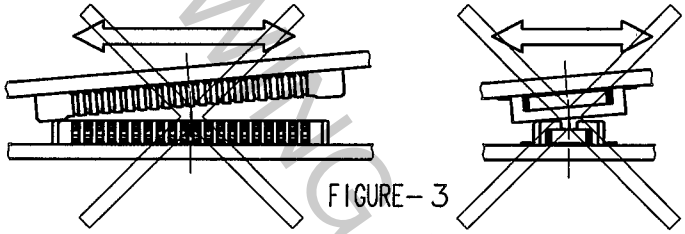

FIGURE-3

WHEN YOU LOCATE TWO CONNECTORS IN A PROPER POSITION,
THEY WILL GO DOWN STIGHTLY AT A LOWER LEVEL AND YOU WILL FIND THET THEY GET LOCATED CORRECTLY.
PLEASE MATE EACH CONNECTOR IN PARALLEL AFTER YOU CONFIRMED THAT THEY GO DOWN LOWER TO SOME EXTENT.

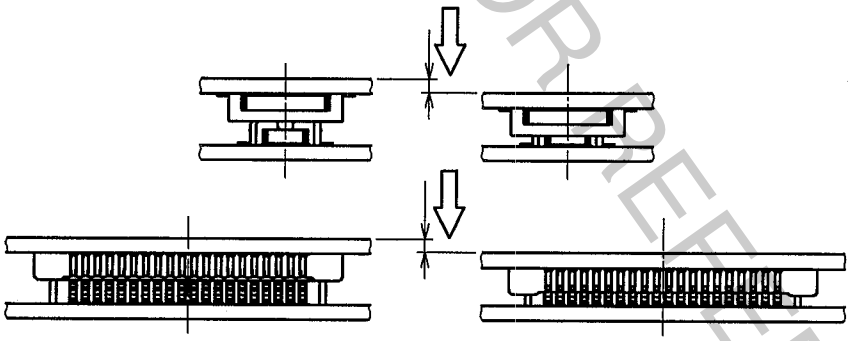

FIGURE-4

THE MATED CONDITIONS CAN BE RELEASED BY A DROP IMPACT OR THE APPLIED FORCE CAUSED BY FPC-HANDLING.
FIX THE CONNECTORS BY APPLYING PRESSURE IN THE MATING DIRECTION WITH THE DEVISE OR A BUFFER MATERIAL.

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTES WHEN MATING	Y.MICHIDA 04.12.16	A.TAKAHASHI 04.12.16	T.SAKATA 04.12.16	T.OMA 04.12.16	

SCALE FREE : 1 UNITS mm	DRAWING NO. EDSC4-830174	PART NO. DF30 Series
HRS HIROSE ELECTRIC CO.,LTD.		CODE NO. CL684

1/3

FORM NO.228

TO

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■NOTES WHEN EXTRACTING

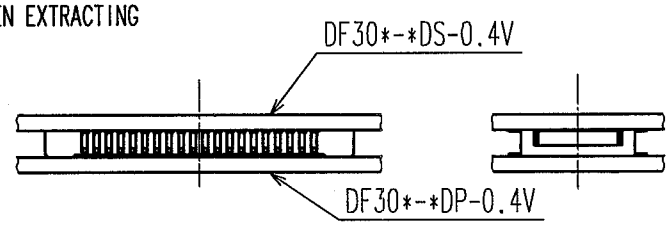

FIGURE-5

WHEN YOU EXTRACT CONNECTORS, PLEASE EXTRACT IN PARALLEL.

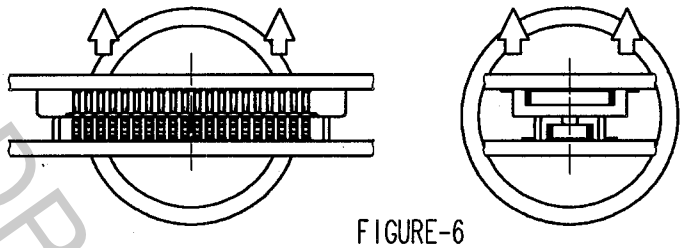

FIGURE-6

⚠1 IF YOU'RE UNABLE TO EXTRACT IN PARALLEL DUE TO SET STRUCTURE OR SPACE, PLEASE EXTRACT AS FIGURE-7 (IN LONGER DIMENSION). PLEASE BE CAREFUL NOT TO DAMAGE CONTACTS AT SIDES, WHERE STRESS IS LIKELY TO GATHER WHEN CONNECTORS ARE MOUNTED ON SOFT FPC.

⚠1 ESPECIALLY, PLEASE DO NOT EXTRACT FROM THE CORNER AS FIGURE-8. IT GIVES CRITICAL STRESS TO THE CONTACTS ON THE CROSS CORNER.

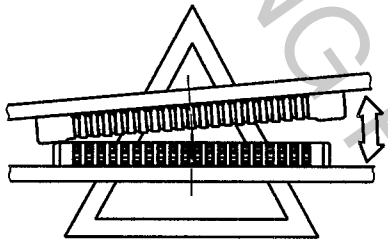

FIGURE-7

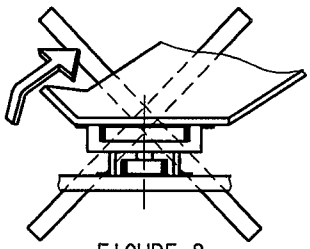

FIGURE-8

⚠1 PLEASE DO NOT EXTRACT AS FIGURE-9. THE STRESS CONCENTRATES ON ONE ROW, AND MIGHT DAMAGE CONNECTORS TO MALFUNCTION.

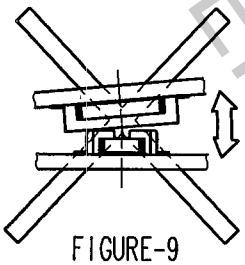

FIGURE-9

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTES WHEN EXTRACTING	Y.MICHIDA 04.12.16	A.TAKAHASHI 04.12.16	T.SAKATA 04.12.16	T.OMA 04.12.16	

SCALE FREE : 1	DRAWING NO. EDSC4-830174	PART NO. DF30 Series
UNITS mm	HRS HIROSE ELECTRIC CO.,LTD.	CODE NO. CL684

2/3

FORM NO.228

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△						△					. .

⚠1 WHEN FPC IS SOFT, STRESS IS CONCENTRATED ON THE CONTACTS AT CORNERS.
PLEASE PAY ATTENTION TO THIS POINT AND DO NOT UNMATE CONNECTORS FROM CORNERS AS FIGURE-10.
THIS GIVES SERIOUS DAMAGE ON CONTACTS, AND OCCURS SOLDER PEEL-OFF OR CONTACT COME-OFF.

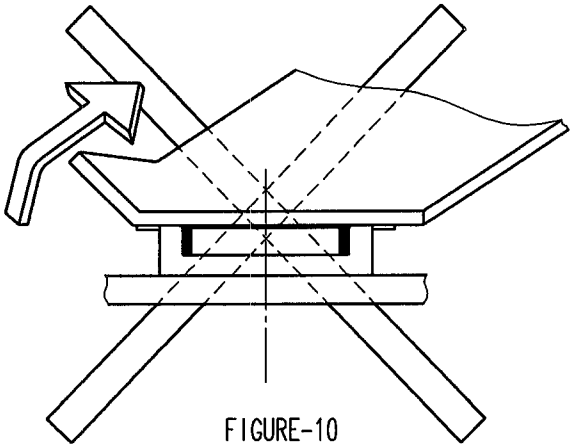

FIGURE-10

IF YOU MOUNT PLUG CONNECTOR ON FPC, CONTACTS MIGHT COME OFF FROM HOUSING MOLD.

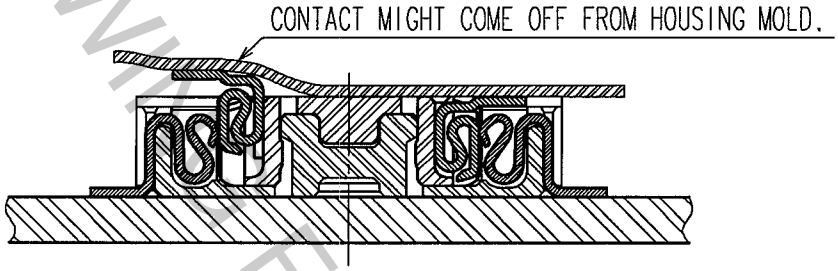

FIGURE-11

IN CASE YOU MOUNT RECEPTACLE CONNECTOR ON FPC, THERE IS NO RISK OF CONTACT COME-OFF.
HIROSE RECOMMEND THAT RECEPTACLE IS MOUNTED ON FPC.

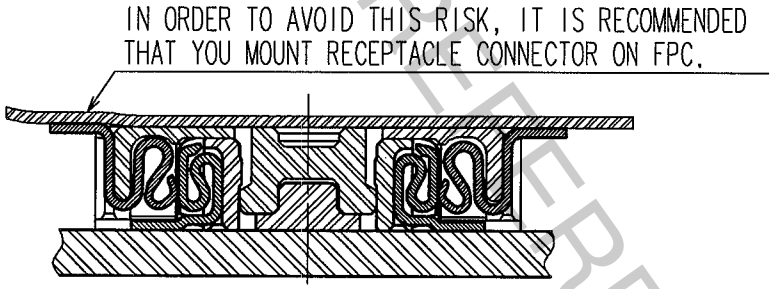

FIGURE-12

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTES WHEN EXTRACTING (SUPPLEMENTARY DATA)	Y.MICHIDA 04.12.16	A.TAKAHASHI 04.12.16	T.SAKATA 04.12.16	T.OMA 04.12.16	

SCALE FREE : 1 UNITS mm	DRAWING NO. EDSC4-830174 HRS HIROSE ELECTRIC CO.,LTD.	PART NO. DF30 Series CODE NO. CL684 3/3

FORM NO.228

TO

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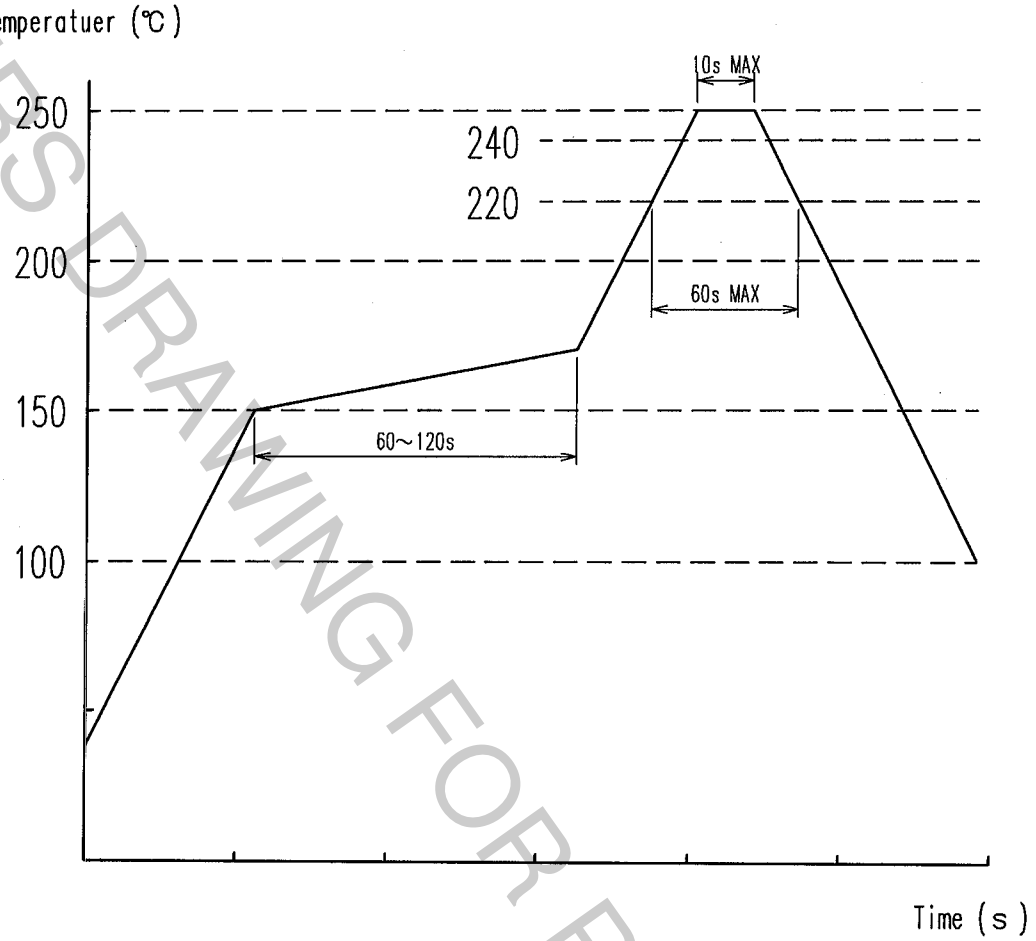

NOTE 1.REFLOW SYSTEM : IR REFLOW (AIR OR N_2 GAS)
2.PERFORMING REFLOW : TWICE MAX

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS

CODE NO.(OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
RECOMMENDED TEMPERATUER PROFILE	T.NISHI 030819	W.Fukuchi 03.08.19	J.Tomioka 03.08.20	T.Ono 03.08.20	

SCALE	DRAWING NO.	PART NO.
FREE	EDC4-830116	DF30-*DS/DP-0.4V
UNITS mm	HIROSE ELECTRIC CO.,LTD.	CODE NO. CL684

1/1

FORM NO.228

TO