

(Remark)  
 Please contact HIROSE sales person for the availability of products. Some parts may be under development.

HR5 NO.	PART NO.	A	B
641-2151-1-00	IT2-380PS-15H(00)	13.4	15.35
641-2155-2-00	IT2-380PS-17H(00)	15.4	17.35
641-2245-0-00	IT2-380PS-20H(00)	18.4	20.35
641-2529-0-00	IT2-380PS-22.2H(00)	20.6	22.55
641-2251-6-00	IT2-380PS-25H(00)	23.4	25.35
641-2255-7-00	IT2-380PS-26H(00)	24.4	26.35
641-2502-4-00	IT2-380PS-28H(00)	26.4	28.35
641-2301-2-00	IT2-380PS-30H(00)	28.4	30.35
641-2300-0-00	IT2-380PS-35H(00)	33.4	35.35
641-2503-7-00	IT2-380PS-40H(00)	38.4	40.35
641-2500-9-00	IT2-380PS-50H(00)	48.4	50.35

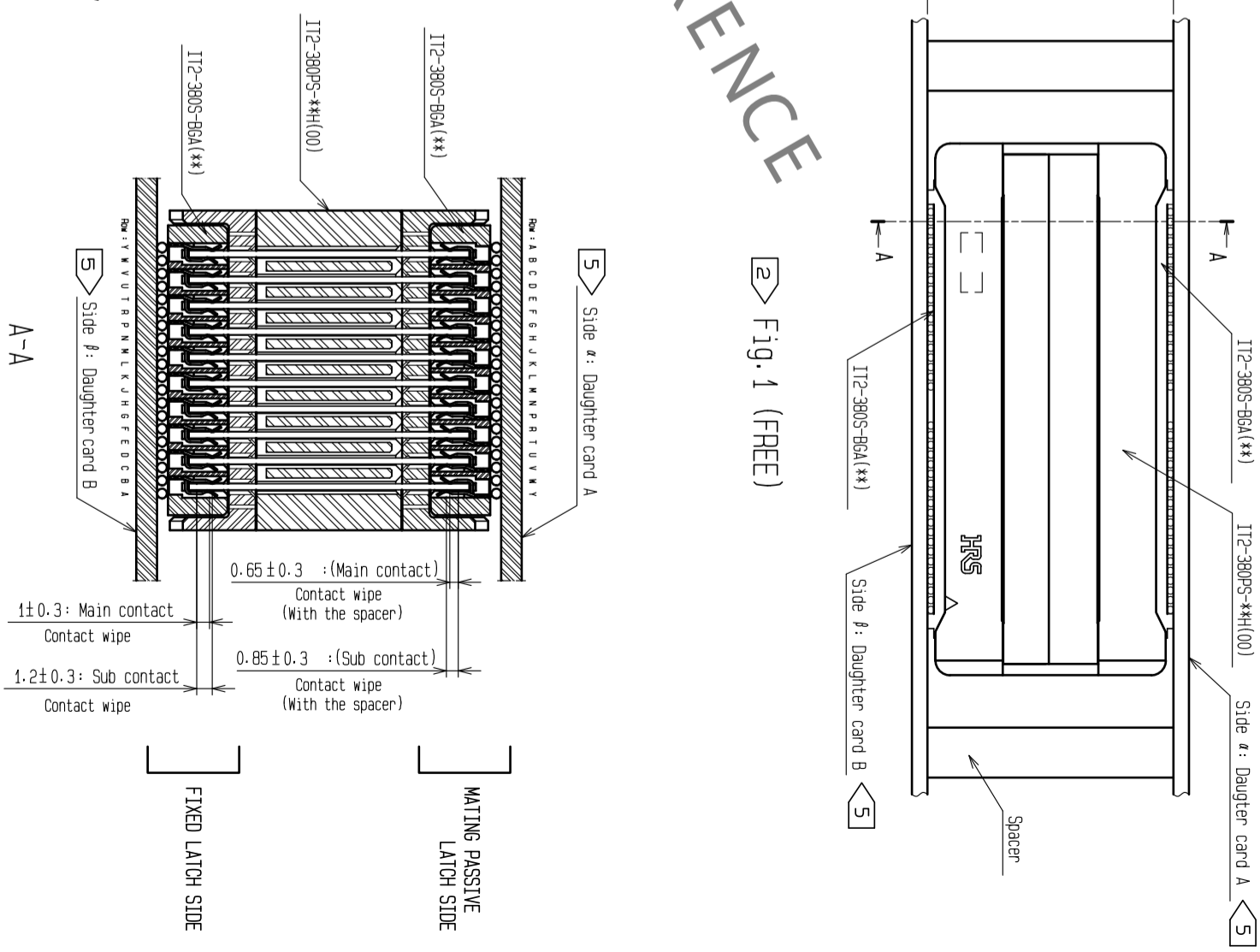
NOTE: 1 Once fixing part is mated with the receptacle:IT2-380S-BGA(\*\*), it is not detachable because the receptacle catches on the latch.

2 This product consists of 180 signal lines and 200 ground lines. The Fig.1 shows the recommended spacer height and how those signal lines and ground lines are arranged and matched in a practical use.

3 Lot No. shall be marked on one of the two indicated positions.  
 4. White remainings of sealing lubricant might be found on the surface of the part④ or part⑤.

5 The remainings do not affect the connector's performance.  
 6 The indicated daughter card-A and card-B shall be fastened to the additional reinforcements to prevent the stress on IT2-380S-BGA(\*\*) solder joints.

6. Details are shown in [IT2 design guideline(ETAD-F0276)J].



2 Fig. 1 (FREE)

NO.	MATERIAL	FINISH	REMARKS	NO.	MATERIAL	FINISH	REMARKS
5	PBT	BLACK	UL94V-0	4	PBT	BLACK	UL94V-0
2	PBT	GRAY	UL94V-0	3	GLASS-EPOXY:FR-4	OTHERS	SOLDER RESIST
1	PBT	BLACK	UL94V-0				

UNITS	SCALE	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
mm	2 : 1	1	DIS-F-00003452	AS.MATSUZAWA	MK.EZAKI	18.06.11

APPROVED	CHECKED	DESIGNED	DRAWING	PART NO.	CODE
KI.AKIYAMA	SI.TOMIOKA	TS.OSHIDA	EDC3-156711-02	IT2-380PS-**H	CL641

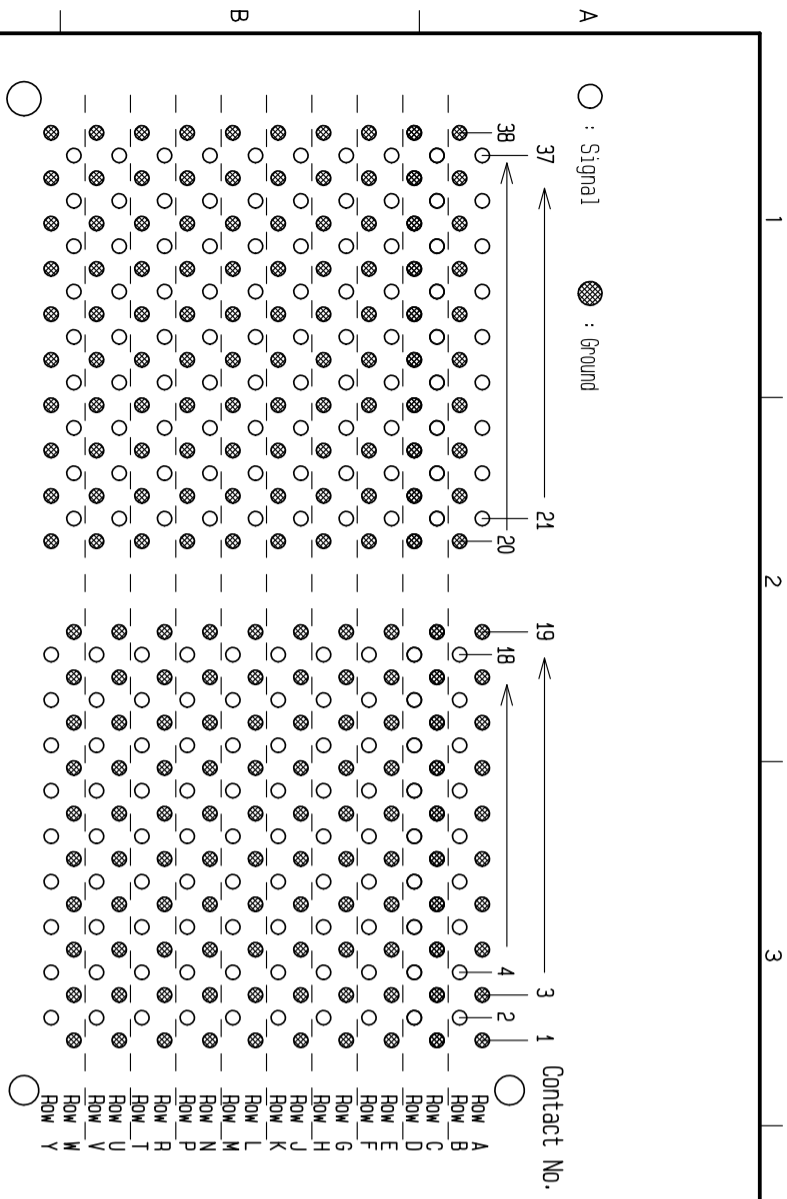


Fig. 2 BGA land pattern for IT2-380S-BGA(\*\*)

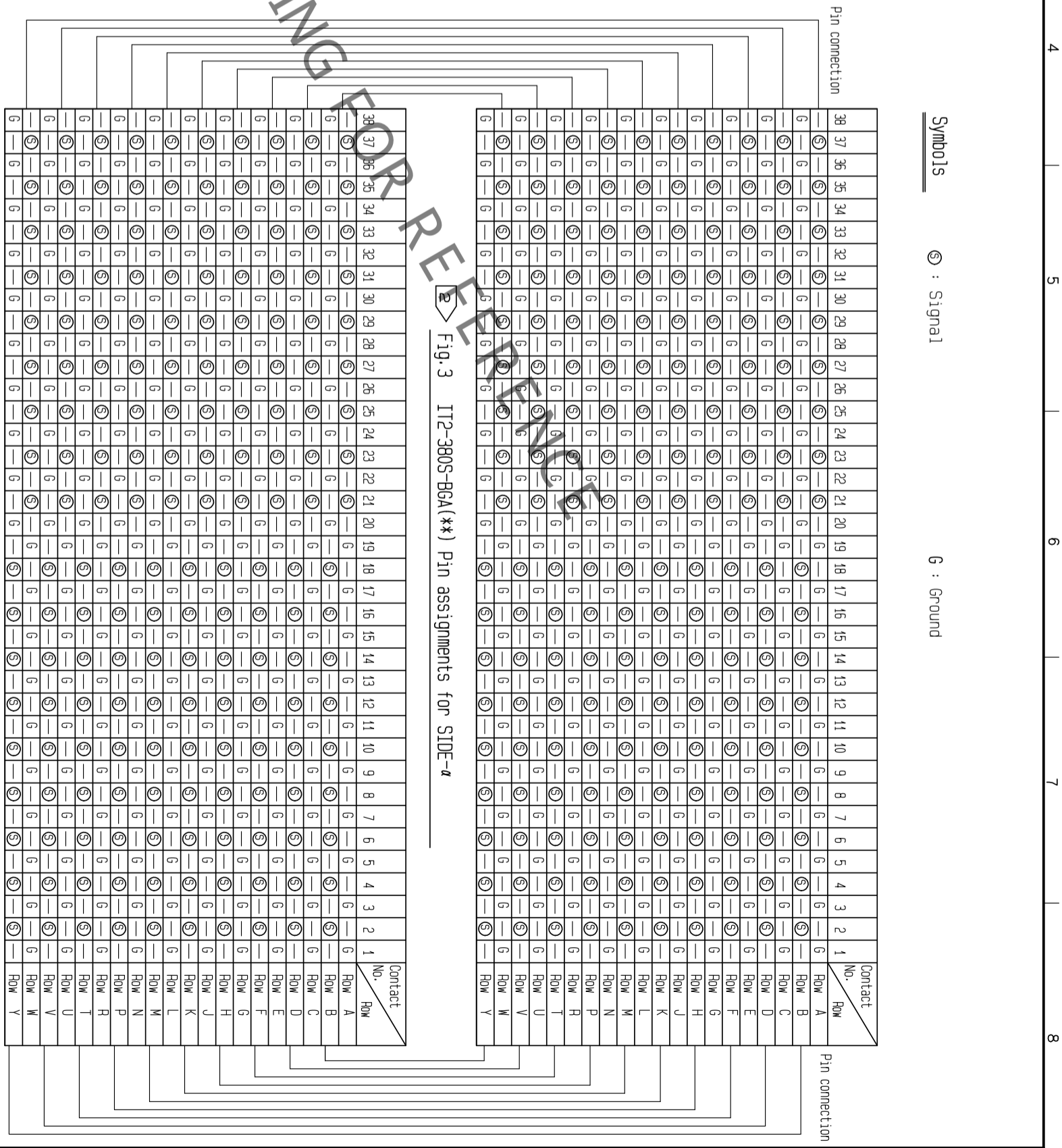


Fig. 3 IT2-380S-BGA(\*\*) Pin assignments for SIDE-a

Fig. 4 IT2-380S-BGA(\*\*) Pin assignments for SIDE-b

Row	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	Contact No.
Row A	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row A	
Row B	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row B
Row C	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row C
Row D	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row D
Row E	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row E
Row F	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row F
Row G	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row G
Row H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row H
Row I	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row I
Row J	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row J
Row K	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row K
Row L	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row L
Row M	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row M
Row N	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row N
Row O	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row O
Row P	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row P
Row Q	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row Q
Row R	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row R
Row T	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row T
Row U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row U
Row V	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row V
Row W	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row W
Row Y	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	Row Y

Contact No.		Row	SIDE																	
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row A	SIDE- $\alpha$
																			Row W	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row B	SIDE- $\alpha$
																			Row Y	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row C	SIDE- $\alpha$
																			Row U	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row D	SIDE- $\alpha$
																			Row V	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row E	SIDE- $\alpha$
																			Row R	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row F	SIDE- $\alpha$
																			Row T	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row G	SIDE- $\alpha$
																			Row N	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row H	SIDE- $\alpha$
																			Row P	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row J	SIDE- $\alpha$
																			Row L	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row K	SIDE- $\alpha$
																			Row M	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row I	SIDE- $\alpha$
																			Row Q	SIDE- $\beta$

Contact No.		Row	SIDE																	
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row L	SIDE- $\alpha$
																			Row J	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row M	SIDE- $\alpha$
																			Row K	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row N	SIDE- $\alpha$
																			Row G	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row O	SIDE- $\alpha$
																			Row P	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row Q	SIDE- $\alpha$
																			Row H	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row R	SIDE- $\alpha$
																			Row E	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row S	SIDE- $\alpha$
																			Row T	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row U	SIDE- $\alpha$
																			Row F	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row V	SIDE- $\alpha$
																			Row C	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row W	SIDE- $\alpha$
																			Row D	SIDE- $\beta$
38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	Row X	SIDE- $\alpha$
																			Row A	SIDE- $\beta$
37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	Row Y	SIDE- $\alpha$
																			Row B	SIDE- $\beta$

Table.1 Pin connections for SIDE- $\alpha$  and SIDE- $\beta$

FORM HC0011-5-8	2	3	4	5	6	7	8
							
	DRAWING NO.		EDC3-156711-02				
	PART NO.		IT2-380PS- * H				
CODE		CL641					
							