

Recommended P/N20617-***E-01

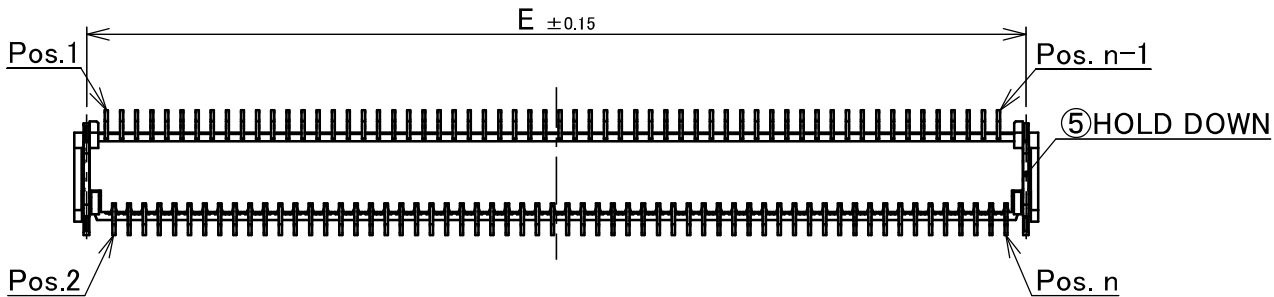
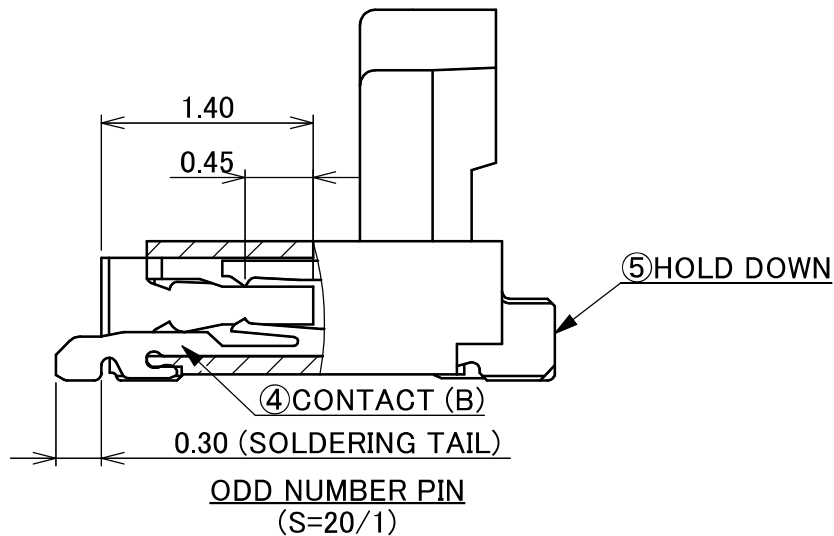
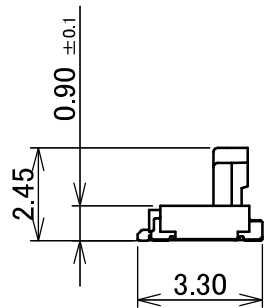
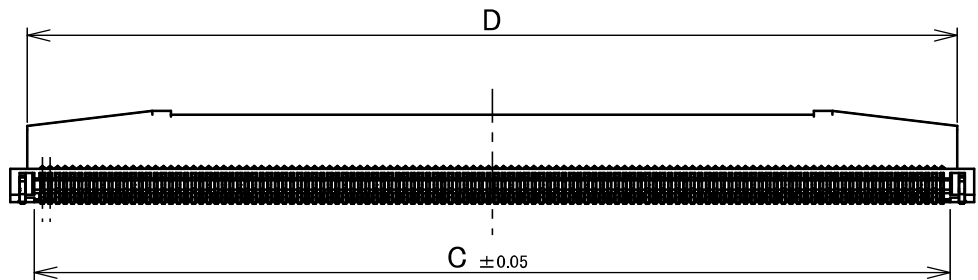
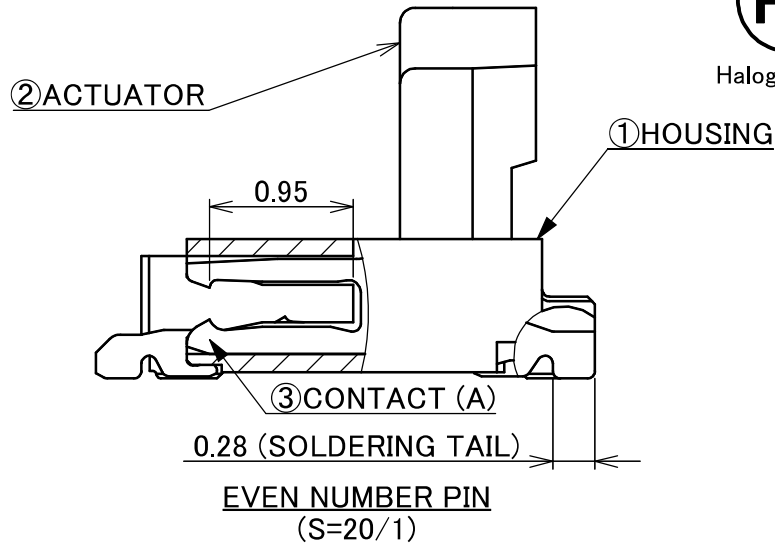
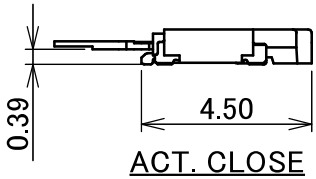
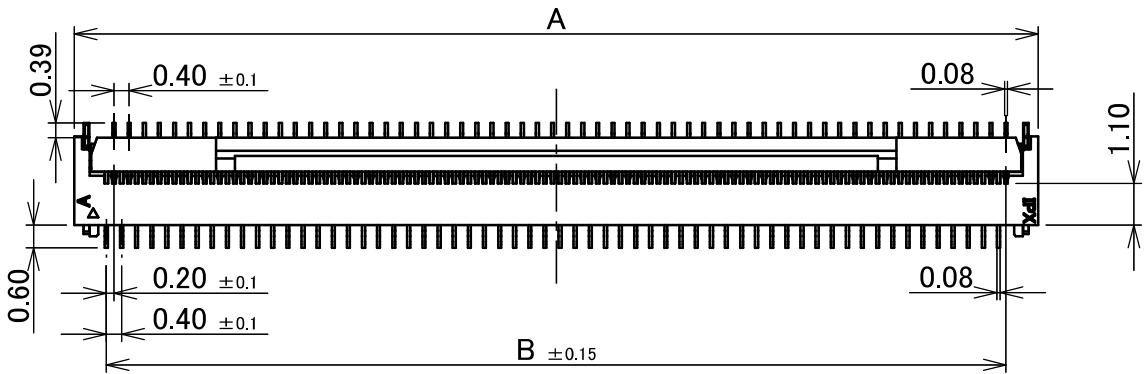
PART NO.	Pos.	A	B	C	D	E
20617-080E-01	80	17.50	15.80	16.22	16.60	16.85
20617-100E-01	100	21.50	19.80	20.22	20.60	20.85
20617-120E-01	120	25.50	23.80	24.22	24.60	24.85



Halogen Free



RoHS Compliant



NOTES.
1. CONTACT POINT : TOP AND BOTTOM CONTACT.

5	HOLD DOWN	BRASS	SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
4	CONTACT(B)	PHOSPHOR BRONZE	CONTACT AREA&SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
3	CONTACT(A)	PHOSPHOR BRONZE	CONTACT AREA&SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
2	ACTUATOR	LCP	UL94V-0,BLACK
1	HOUSING	LCP	UL94V-0,BEIGE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

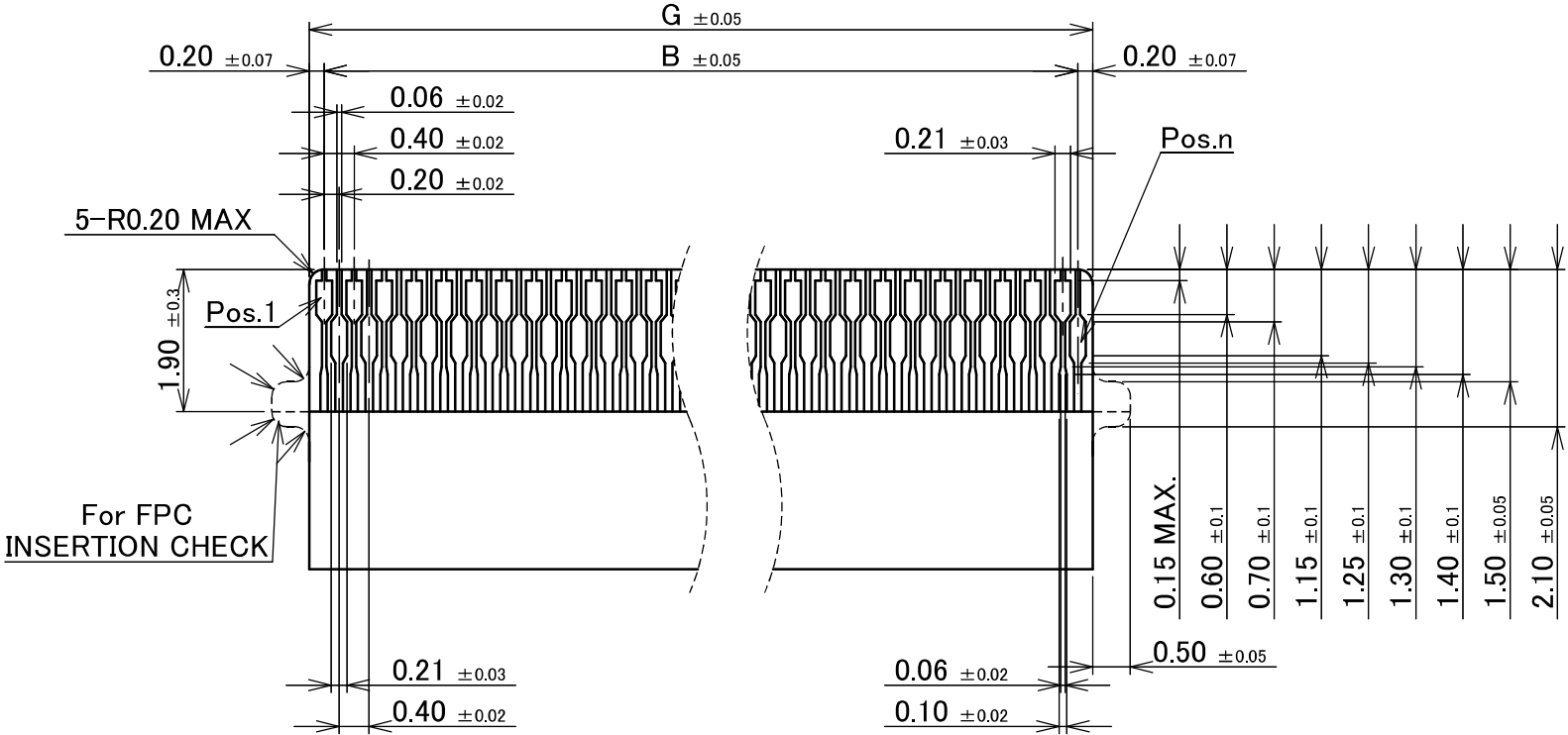
12	ZC01031	S.Tan	2026/10/08	H.I	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY		
11	Z220607	S.Sh	2022/05/31	H.I	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R6			
10	Z200959	S.Sh	2020/09/14	Y.S	GENERAL TOLERANCE.				TITLE MINIFLEX® 2-BF ASS'Y	SCALE		I-PEX	
9	Z200818	M.M	2020/08/06	Y.S	DWG.	DATE				5:1	UNIT		
8	Z200585	M.M	2020/06/08	Y.S	M.Ishimaru 2014/01/24								
7	Z191444	M.M	2019/11/05	H.I	CHK.	J.Tateishi				mm			
REV.	ECN	BY	DATE	APP.	APP.					DWG. No.	20617		
REVISION RECORD					E.Kawabe				20617		A3	1/5	12

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE	0.2A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(−40℃~+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 100mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC150V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL: 0.2N (20.4gf) × n MAX. 20 CYCLES : 0.2N (20.4gf) × n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL: 0.014N (1.4gf) × n MIN. 20 CYCLES : 0.014N (1.4gf) × n MIN.
FPC RETENTION FORCE (INITIAL / 20TH CYCLES)	INITIAL: 0.2N (20.4gf) × n MIN. 20 CYCLES : 0.2N (20.4gf) × n MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2319
TEST REPORT	TR-16128
PACKING STANDARD	PST-16121
INSTRUCTION MANUAL	HIM-16031
APPEARANCE CRITERIA No.	QLS-A***

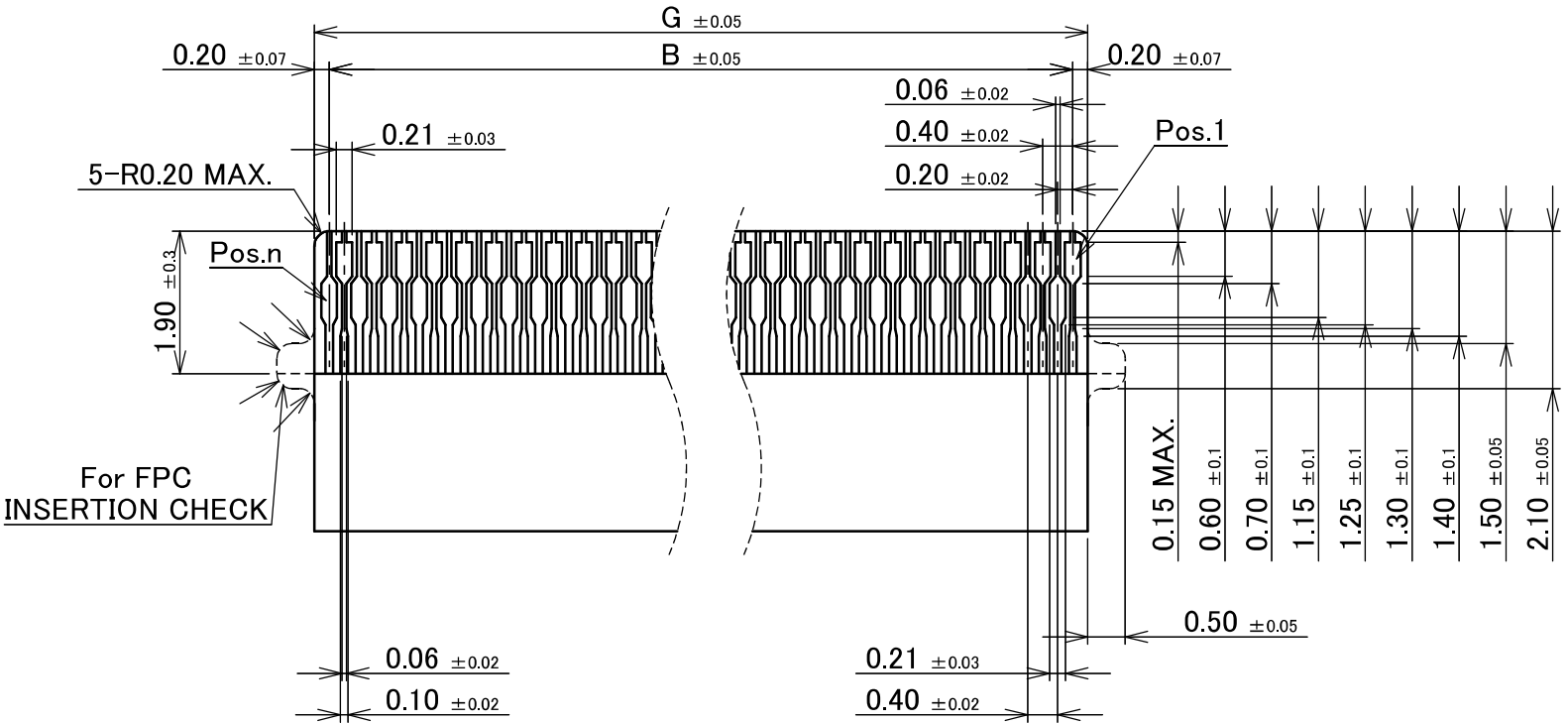
※ "n" IS THE NUMBER OF PIN

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R6	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MINIFLEX® 2-BF ASS'Y	SCALE UNIT mm	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20617	SIZE A3	SHEET 2/5	REV. 12

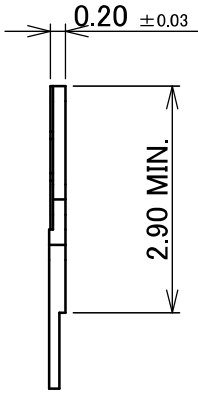
PART No.	Pos.	B	F	G
20617-080E-01	80	15.80	17.00	16.20
20617-100E-01	100	19.80	21.00	20.20
20617-120E-01	120	23.80	25.00	24.20



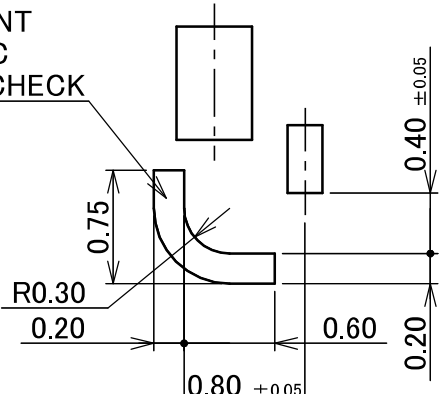
RECOMMENDED FPC LAYOUT (For TOP CONTACT)



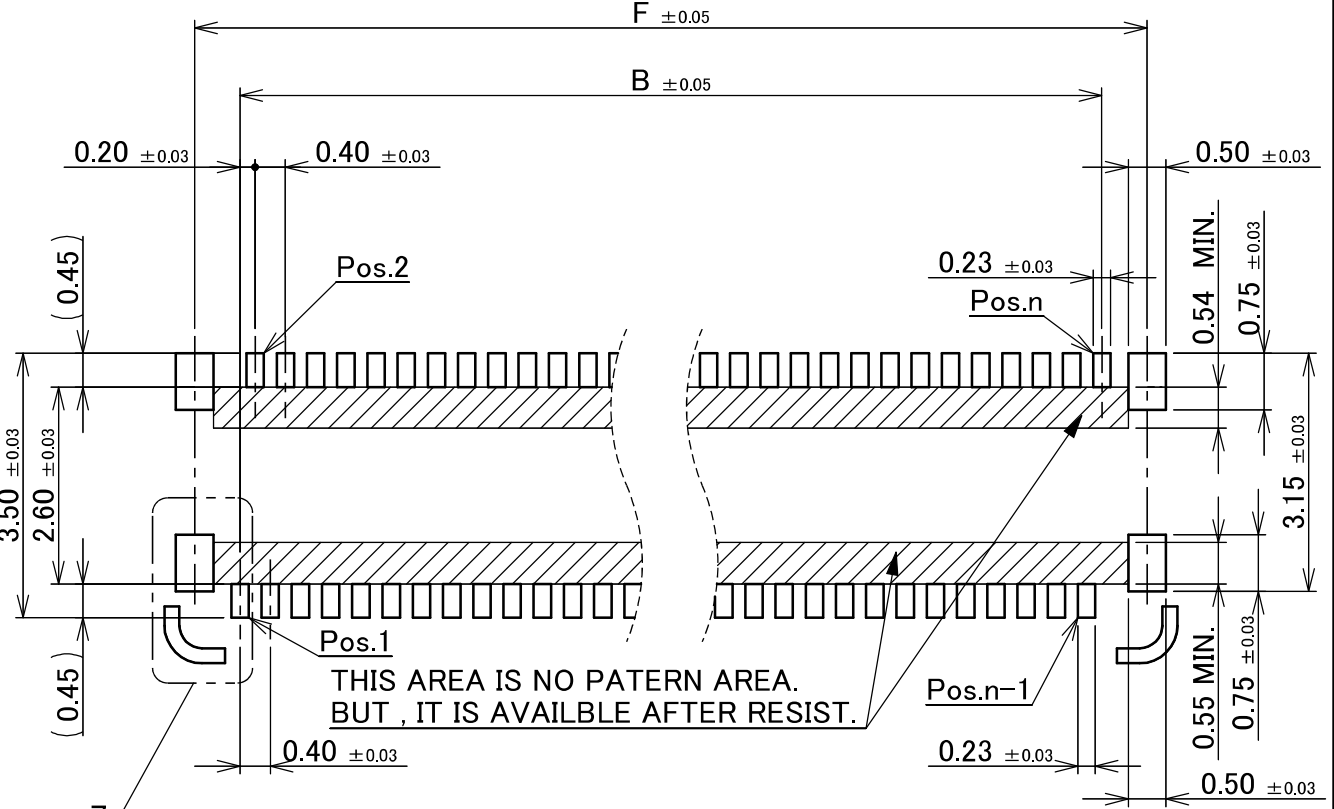
RECOMMENDED FPC LAYOUT (For BOTTOM CONTACT)



SILK PRINT
For FPC
INSERTION CHECK

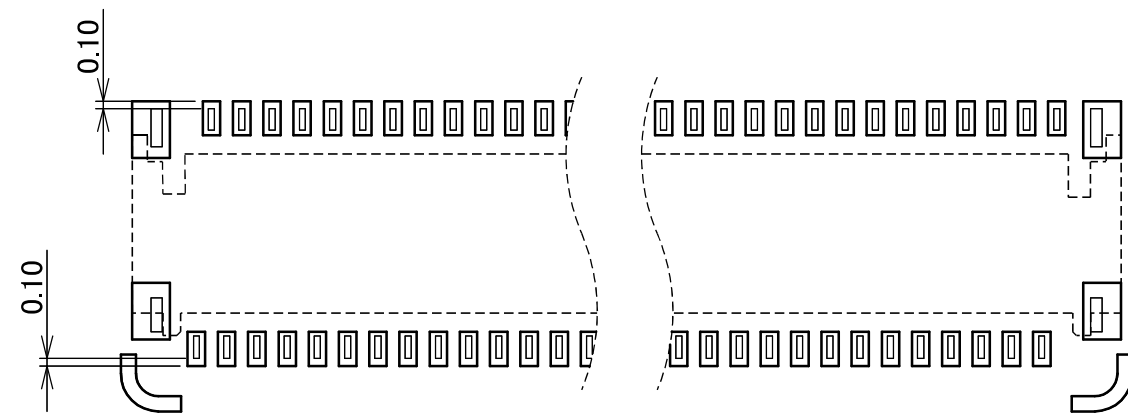


DETAIL Z
(S=20/1)

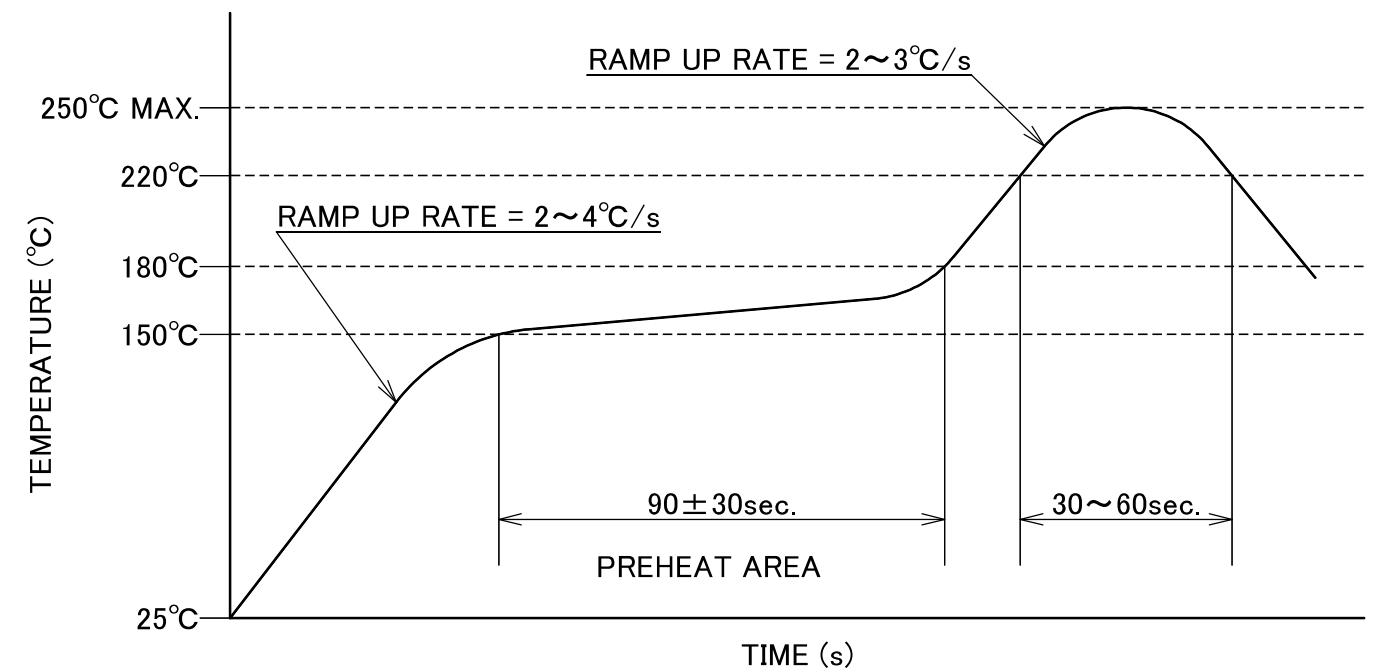


RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm

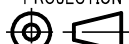
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5	⊕	R6			
GENERAL TOLERANCE.				TITLE		SCALE		
DWG. DATE				MINIFLEX® 2-BF ASS'Y		5:1		
CHK.						UNIT	I-PEX	
APP.				DWG. No.		SIZE	SHEET	REV.
				20617		A3	3/5	12



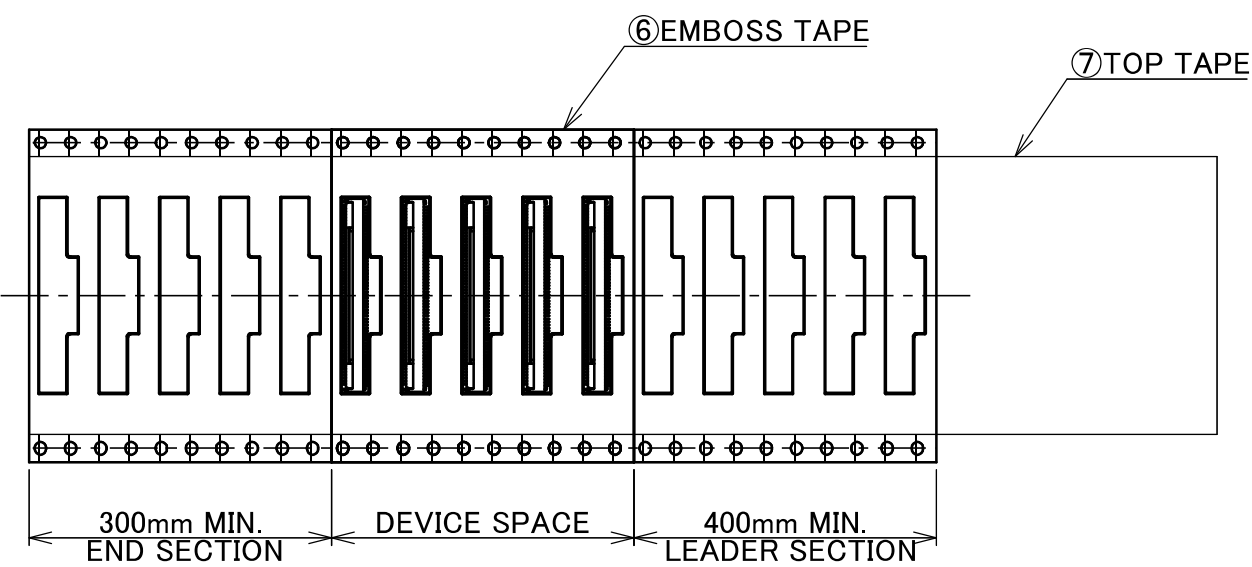
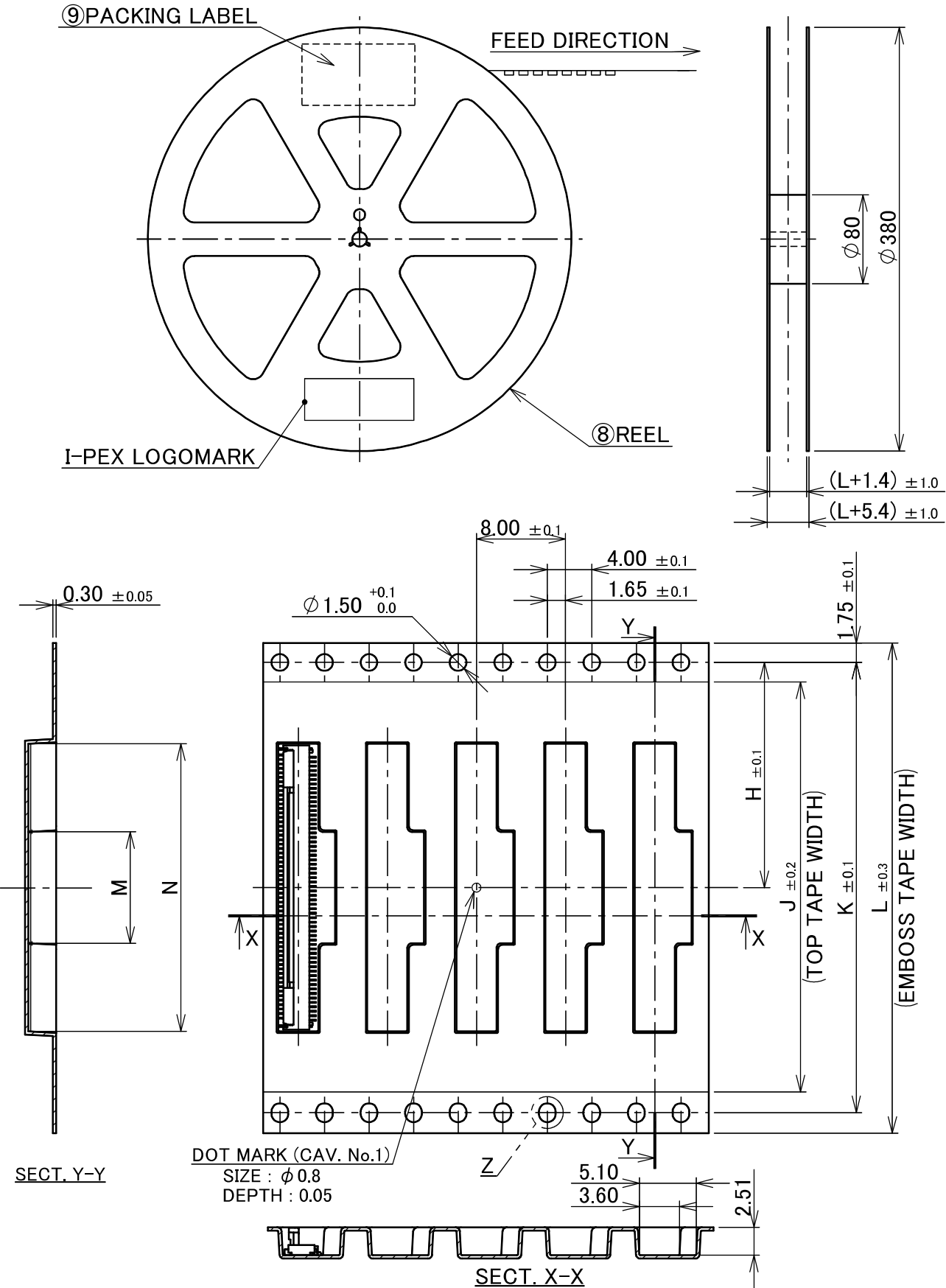
CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R6	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MINIFLEX® 2-BF ASS'Y		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
						mm		
APP.				DWG. No.		SIZE	SHEET	REV.
				20617		A3	4/5	12

PART NO.	H	J	K	L	M	N	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20617-080E-01	14.20	26.00	28.40	32.00	10.00	17.80	4000 / REEL	4 / CARTON
20617-100E-01	14.20	26.00	28.40	32.00	10.00	21.80		
20617-120E-01	20.20	37.00	40.40	44.00	10.00	25.80		3 / CARTON



- NOTES.
3. TAPING SPECIFICATION FOLLOWS JIS C 0806 (IEC 60286-3).
 4. MAKE EMPTY SECTION OF LEADER AND END ON EACH END OF THE TAPE.
 5. TOP TAPE SHALL NOT STICK OUT FROM EMBOSS TAPE.
 6. TOP TAPE SHALL NOT COVER FEED HOLE.

9	PACKING LABEL	-	-
8	REEL	PS	BLACK
7	TOP TAPE	PET TRANSPARENCY	ANTI-STATIC TYPE
6	EMBOSS TAPE	PS TRANSPARENCY	ANTI-STATIC TYPE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R6			
GENERAL TOLERANCE.				TITLE MINIFLEX® 2-BF ASS'Y		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20617	SIZE	SHEET	REV.
						A3	5/5	12