

ODD NUMBER POS.



PART No.	Pos.	A	B	C	D	E	F
20584-051E-01	51P	17.40	14.40	15.00	16.85	8.85	16.20
20584-053E-01	53P	18.00	15.00	15.60	17.45	9.45	16.80
20584-057E-01	57P	19.20	16.20	16.80	18.65	10.65	18.00
20584-061E-01	61P	20.40	17.40	18.00	19.85	11.85	19.20
20584-071E-01	71P	23.40	20.40	21.00	22.85	10.85	22.20

- NOTES.
1. THIS DENT SHAPE IS PURPOSED FOR GOOD INJECTION QUALITY. THIS DENT SHAPE WILL NOT AFFECT CONNECTR FUNCTION. DENT SHAPE SHOWN ON DRAWING IS JUST FOR REFERENCE. DENT SHAPE AND QUANTITY MIGHT CHABGE FROM DIFFERENT PIN COUNT AND DIFFERENT TOOLING.
2. CONTACT POINT : TOP AND BOTTOM CONTACT

CAUTION

VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-12007 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

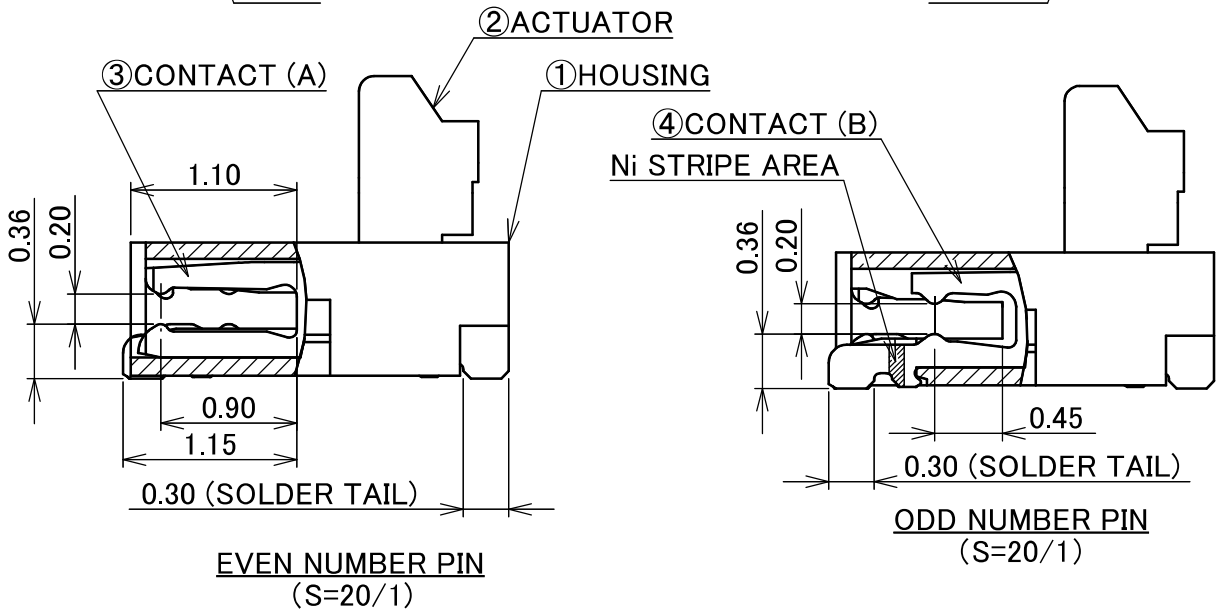
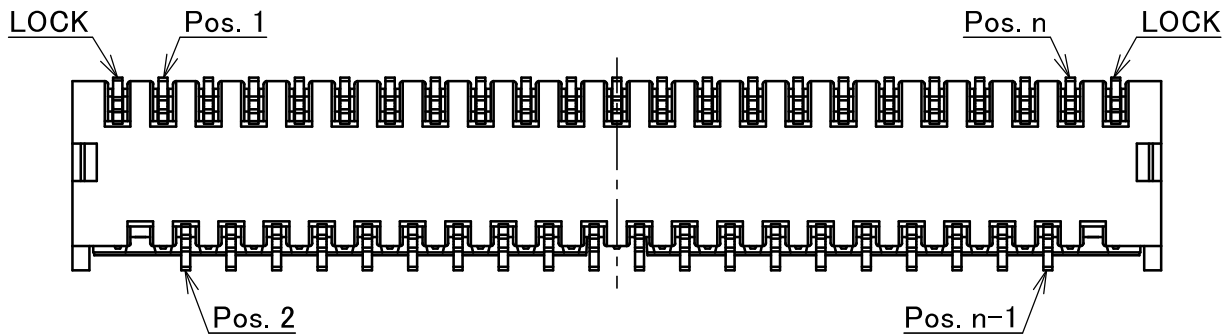
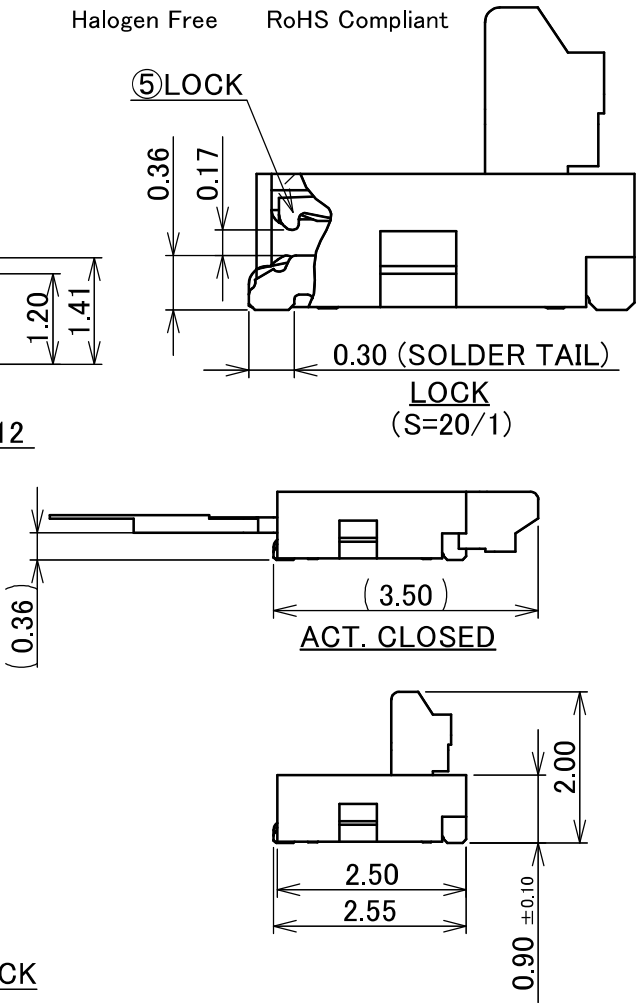
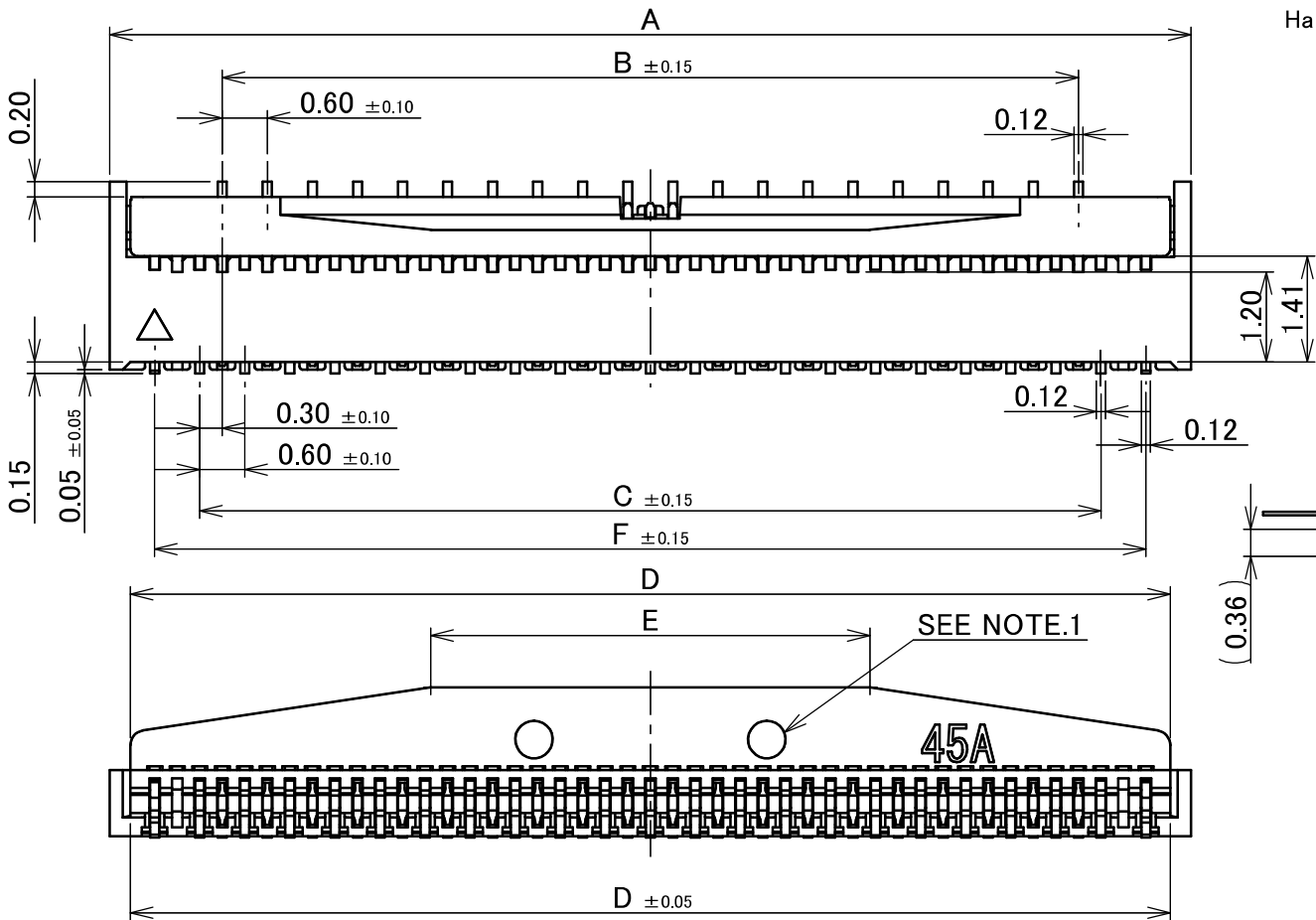


TABLE 1

PART NO.		FINISH	
20584-0**E-01		CONTACT AREA : Au 0.10 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.	
5	LOCK	PHOSPHOR BRONZE	SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
4	CONTACT (B)	PHOSPHOR BRONZE	SEE TABLE 1, WITH Ni STRIPE
3	CONTACT (A)	PHOSPHOR BRONZE	SEE TABLE 1
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSNIG	LCP	UL94V-0, BEIGE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

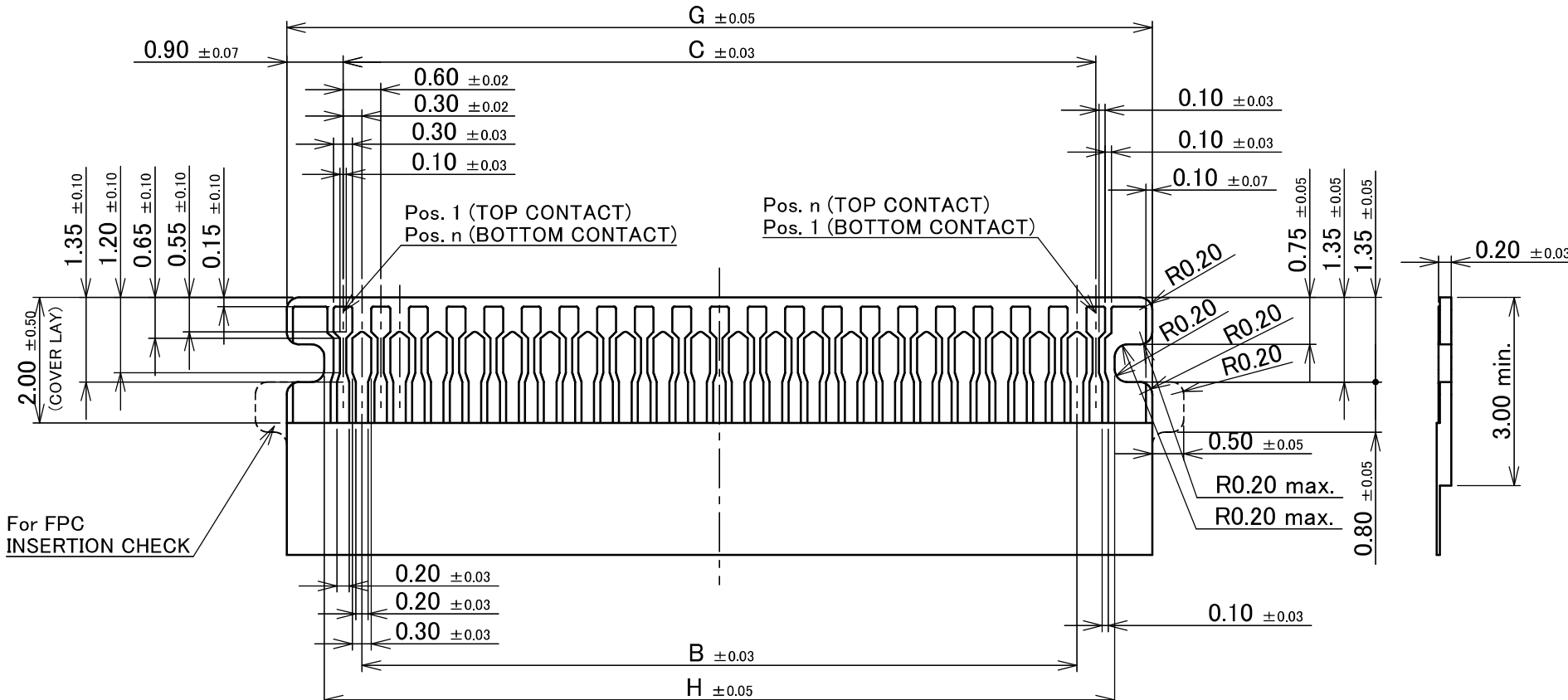
19	ZC00977	S.Tan	2026/09/18	H.I	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY			
18	Z240697	W.L	2024/06/28	M.T	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R3				
17	Z200896	M.M	2020/08/31	Y.S	GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFN L-LK	SCALE				
16	Z200569	M.M	2020/06/05	Y.S	DWG.	DATE				10:1				
15	Z191376	M.M	2019/10/15	H.I	K.Ozeki			2013/03/01		UNIT				
14	Z190885	M.M	2019/07/04	H.I	J.Tateishi					mm				
REV.	ECN	BY	DATE	APP.	APP.					DWG. No.				20584
REVISION RECORD					E.Kawabe						A3	1/5	19	

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K (-40℃~+85℃)
OPERATING HUMIDITY	20~80%RH
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) × (n + 2) MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) × (n + 2) MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N (13gf) × n + 1.0N MIN. / AFTER TEST: 0.10N (10gf) × n + 1.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1789
TEST REPORT	TR-13022
PACKING STANDARD	PST-13013
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

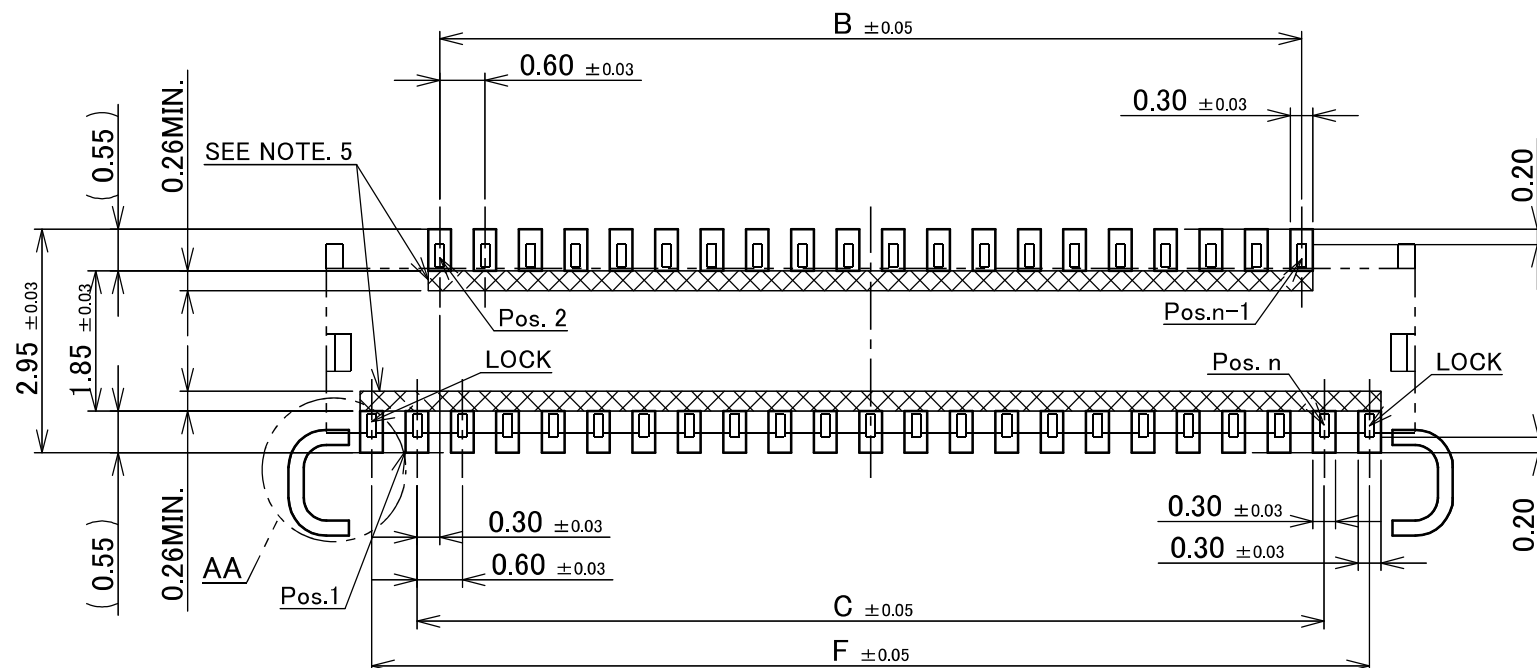
※ “n” IS THE NUMBER OF PIN

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFN L-LK	SCALE 	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20584	SIZE A3	SHEET 2/5	REV. 19

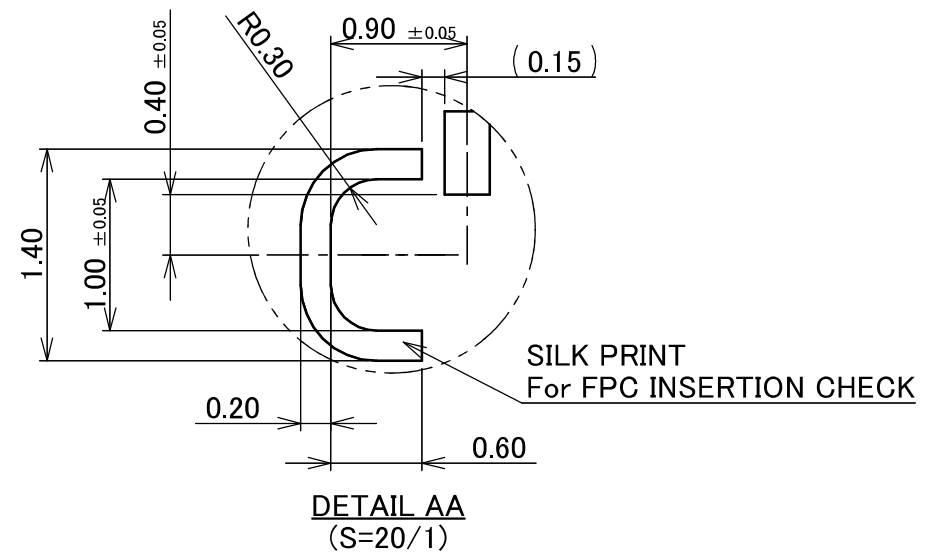
ODD NUMBER POS.



RECOMMENDED FPC LAYOUT



RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : $t=0.12\text{mm}$



FOR	Pos.	B	C	F	G	H
20584-051E-01	51P	14.40	15.00	16.20	16.80	15.60
20584-053E-01	53P	15.00	15.60	16.80	17.40	16.20
20584-057E-01	57P	16.20	16.80	18.00	18.60	17.40
20584-061E-01	61P	17.40	18.00	19.20	19.80	18.60
20584-071E-01	71P	20.40	21.00	22.20	22.80	21.60

NOTES

3. MATERIAL

COVER FILM : PI

CONDUCTOR : COPPER(RARE)

BASE FILM : PI

STIFFENER : PI

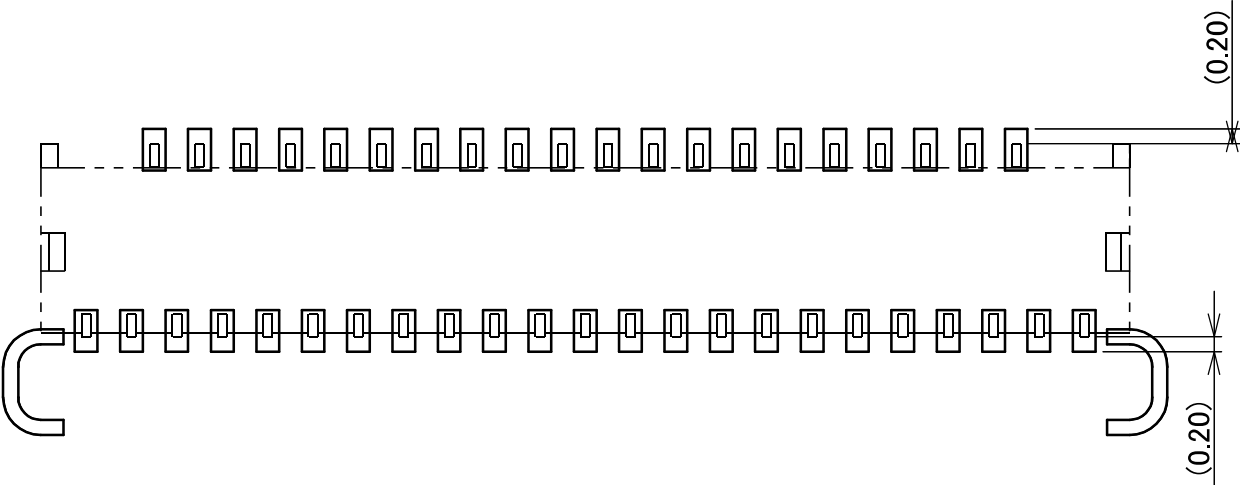
ADHESIVE : THERMOSETTING ADHESIVE

4. FINISH

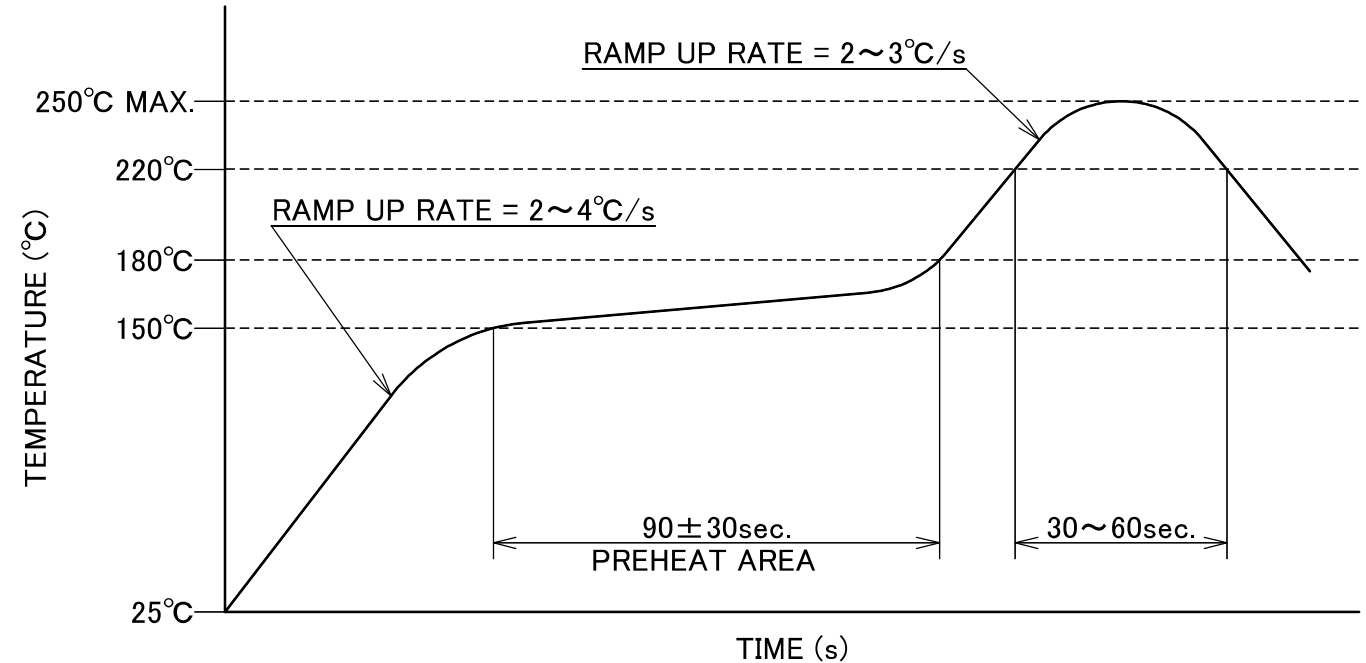
Au OVER Ni UNDER PLATING.

5. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY					
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R3						
GENERAL TOLERANCE.					TITLE MINIFLEX® 3-BFN L-LK		SCALE				
DWG.	DATE						10:1				
CHK.							UNIT				
APP.							mm				
				DWG. No.	20584	SIZE	A3	SHEET	3/5	REV.	19



CONNECTOR ON RECOMMENDED PCB LAYOUT



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. R3	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5						
GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFN L-LK			SCALE		
DWG.	DATE						10:1		
CHK.							UNIT		
			mm						
APP.				DWG. No.	20584		SIZE	SHEET	REV.
						A3	4/5	19	

