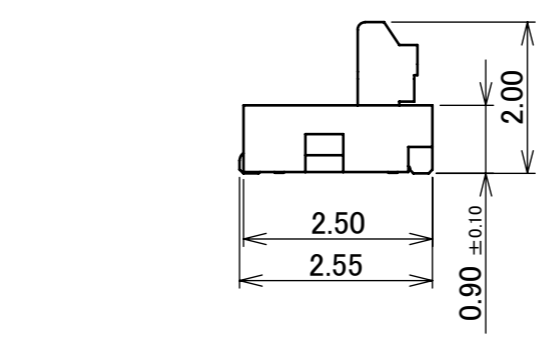
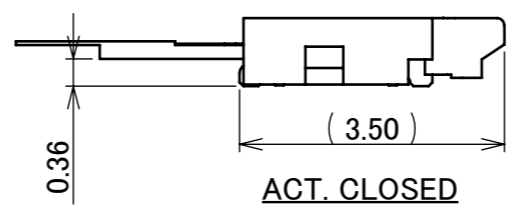
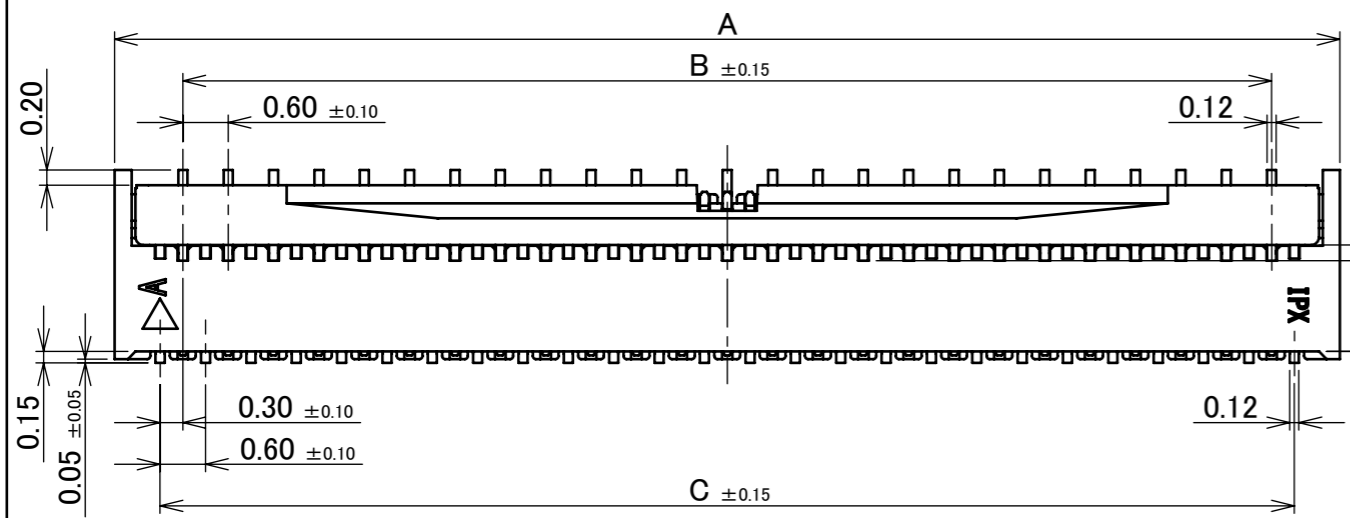




PART NO.	Pos.	A	B	C	D	E
20538-033E-0#	33P	10.80	9.00	9.60	10.25	6.25
20538-035E-0#	35P	11.40	9.60	10.20	10.85	6.85
20538-039E-0#	39P	12.60	10.80	11.40	12.05	8.05
20538-041E-0#	41P	13.20	11.40	12.00	12.65	4.65
20538-045E-0#	45P	14.40	12.60	13.20	13.85	5.85
20538-049E-0#	49P	15.60	13.80	14.40	15.05	7.05
20538-051E-0#	51P	16.20	14.40	15.00	15.65	7.65
20538-055E-0#	55P	17.40	15.60	16.20	16.85	8.85
20538-057E-0#	57P	18.00	16.20	16.80	17.45	9.45
20538-061E-0#	61P	19.20	17.40	18.00	18.65	10.65
20538-065E-0#	65P	20.40	18.60	19.20	19.85	11.85



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.

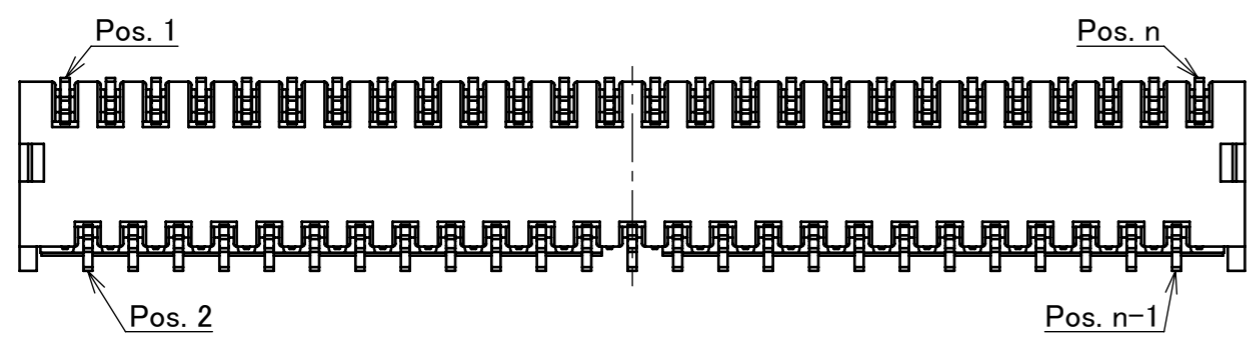
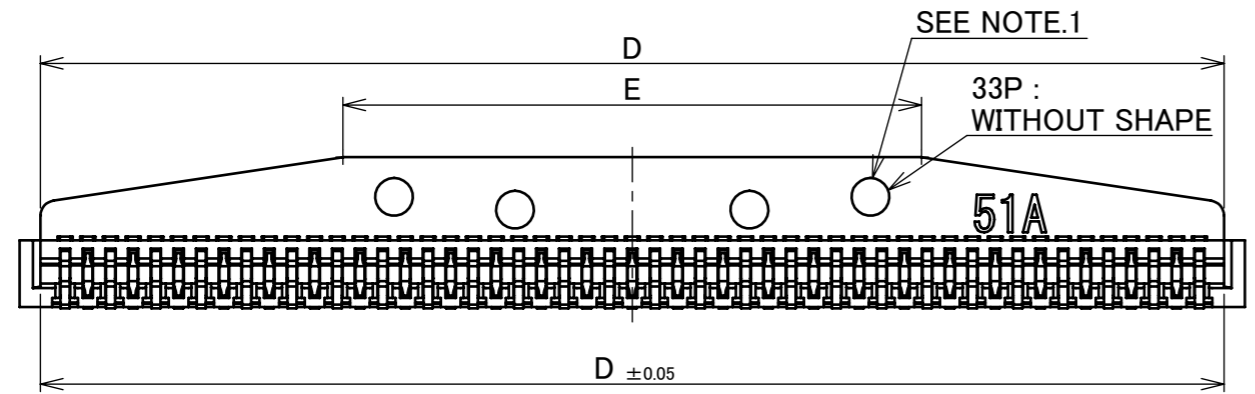
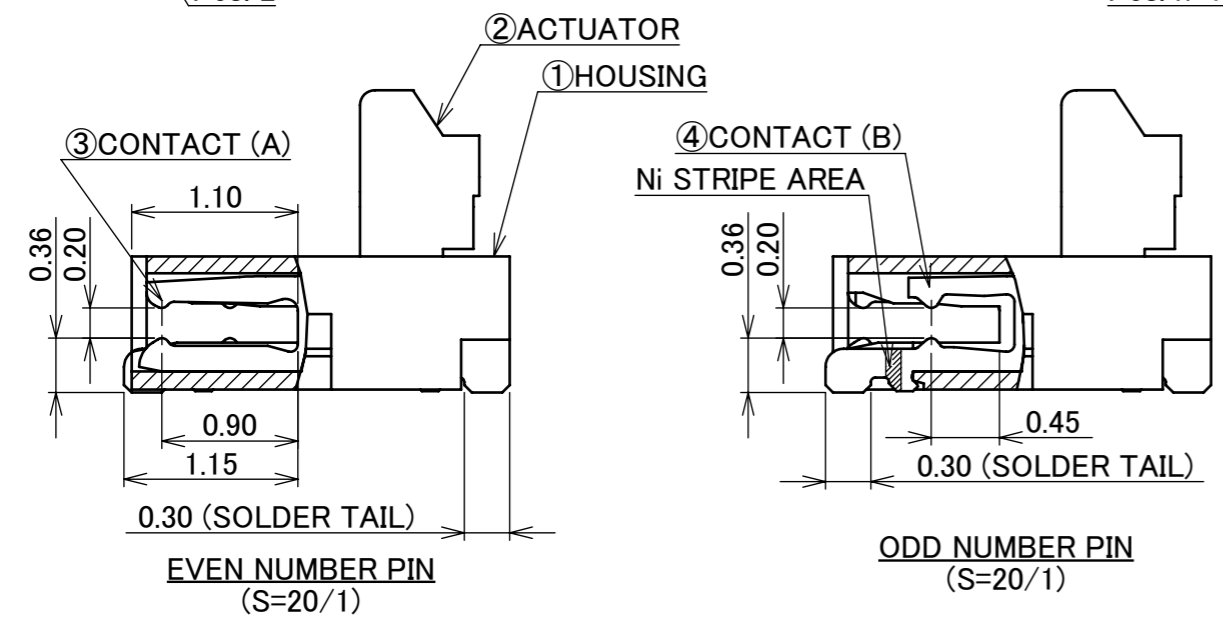


TABLE 1

PART NO.	FINISH
20538-0**E-01	CONTACT AREA : Au 0.10 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
20538-0**E-02	CONTACT AREA : Au 0.254 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
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	HOUSING	LCP	UL94V-0, BEIGE



REV.	ECN	BY	DATE	APP.	DESCRIPTION	DATE	DATE	DATE	DATE	PROJECTION	SERIES No.	TITLE	SCALE	UNIT	SIZE	SHEET	REV.
17	Z191376	M.M	Oct./15/'19	H.I	ANGLE	±2°	6 OVER 30 MAX.	±0.3		PROJECTION	R3	MINIFLEX® 3-BFN LONG ACT TYPE	10:1	mm	A3	1/5	17
16	Z181440	T.O	Nov./02/'18	H.I	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5									
15	Z181289	T.O	Oct./01/'18	H.I	GENERAL TOLERANCE.												
14	Z161237	H.A	Oct./06/'16	Y.S	DWG.	Y.Shimada	DATE	2011/02/14									
13	Z150443	R.T	Apr./21/'15	E.K	CHK.	Y.Hashimoto	DATE	2011/02/14									
12	Z141473	R.T	Dec./24/'14	E.K	APP.	T.Harada	DATE	2011/02/14									
REVISION RECORD					DWG. No.	20538											

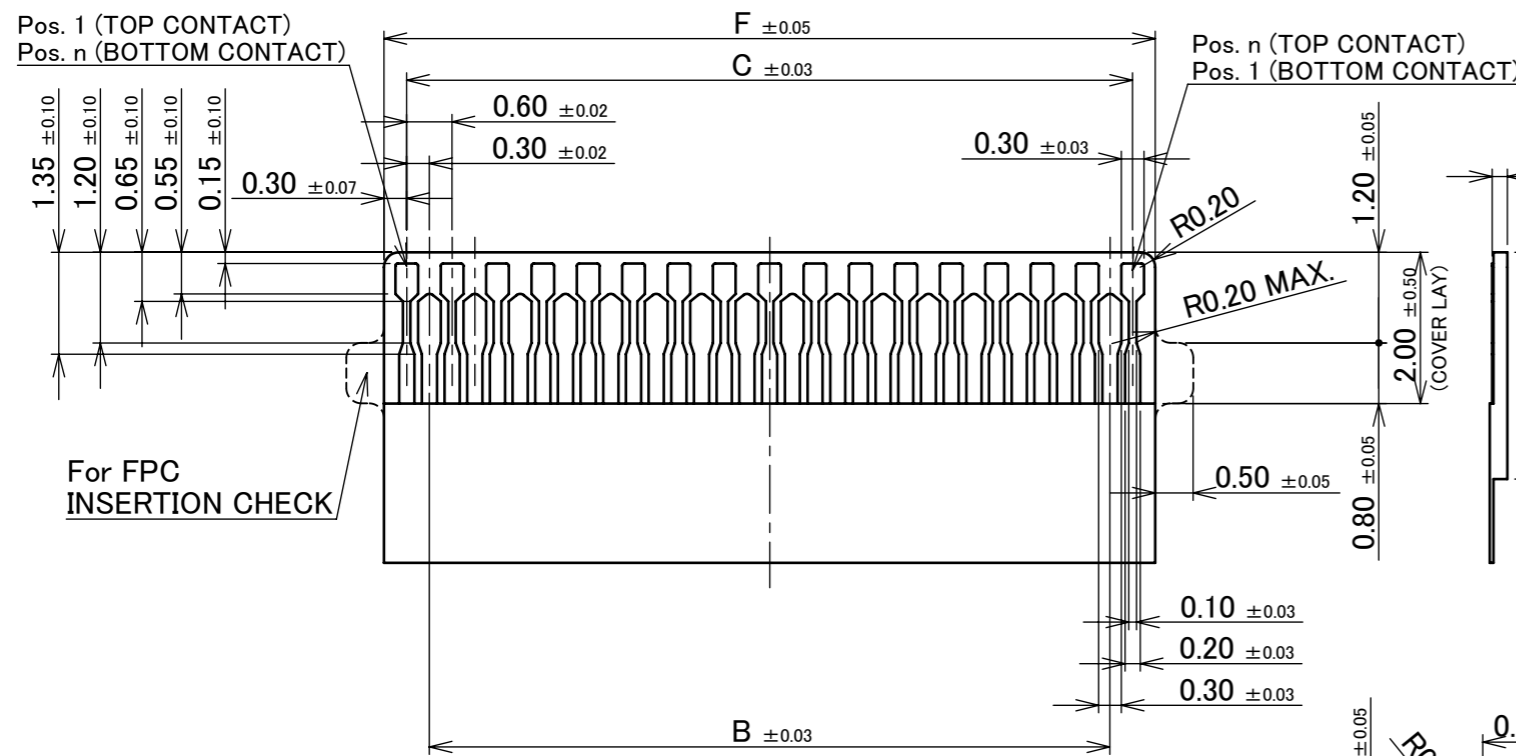
ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K (-40°C~+85°C)
OPERATING HUMIDITY	20~80%RH (NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : \triangleleft 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) \times n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) \times n MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N (13gf) \times n MIN. / AFTER TEST: 0.10N (10gf) \times n MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1579
TEST REPORT	TR-12040
PACKING STANDARD	300-920
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

※ "n" IS THE NUMBER OF PIN

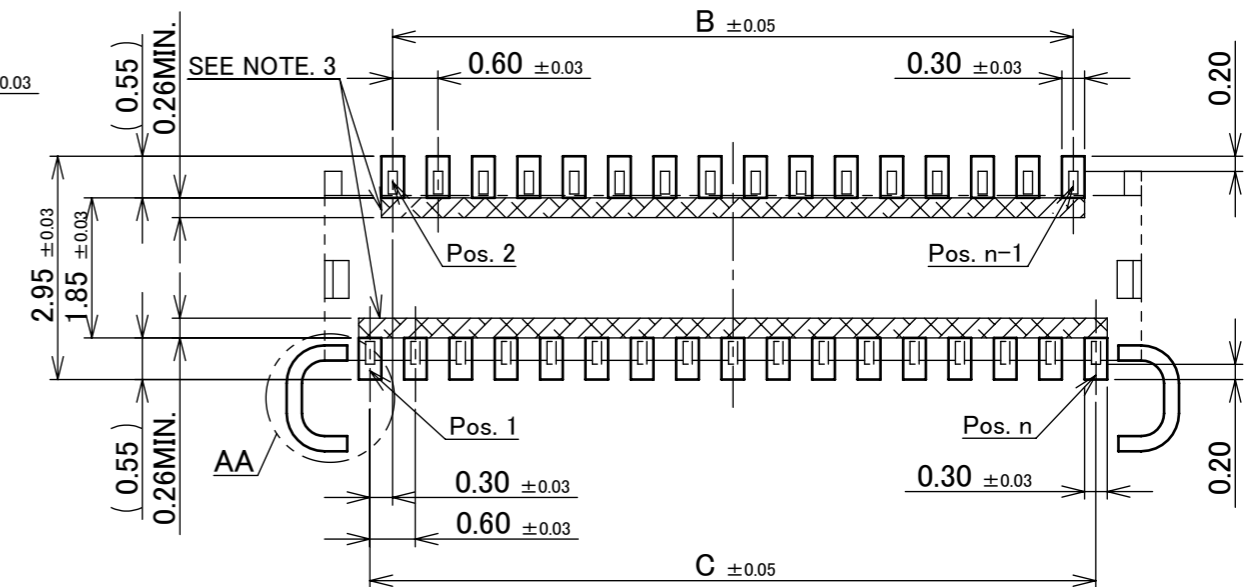
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5			
GENERAL TOLERANCE.				TITLE MINIFLEX [®] 3-BFN LONG ACT TYPE	SCALE	UNIT mm
DWG.	DATE					
CHK.	DATE					
APP.	DATE					
				DWG. No.	20538	SIZE A3
				SHEET 2/5		REV. 17

PART NO.	Pos.	B	C	F
20538-033E-0#	33P	9.00	9.60	10.20
20538-035E-0#	35P	9.60	10.20	10.80
20538-039E-0#	39P	10.80	11.40	12.00
20538-041E-0#	41P	11.40	12.00	12.60
20538-045E-0#	45P	12.60	13.20	13.80
20538-049E-0#	49P	13.80	14.40	15.00
20538-051E-0#	51P	14.40	15.00	15.60
20538-055E-0#	55P	15.60	16.20	16.80
20538-057E-0#	57P	16.20	16.80	17.40
20538-061E-0#	61P	17.40	18.00	18.60
20538-065E-0#	65P	18.60	19.20	19.80

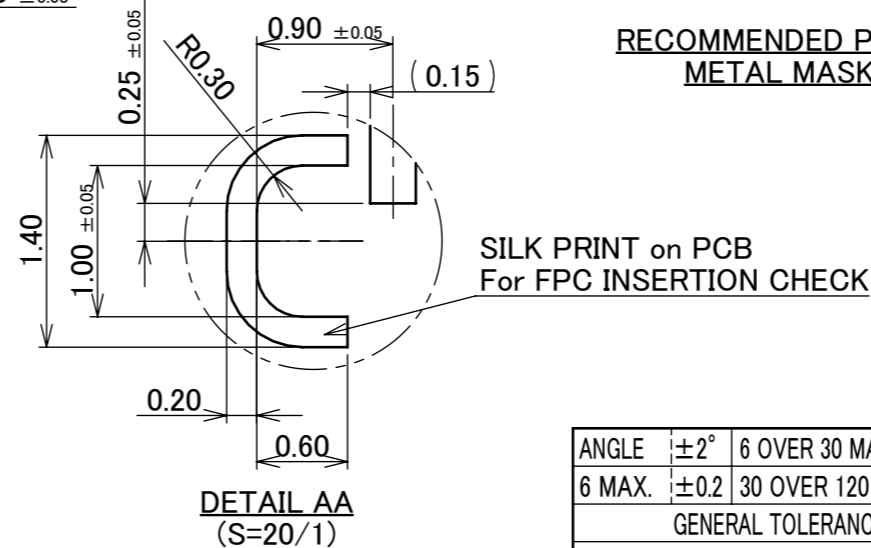
NOTES.
 3. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.



RECOMMENDED FPC LAYOUT

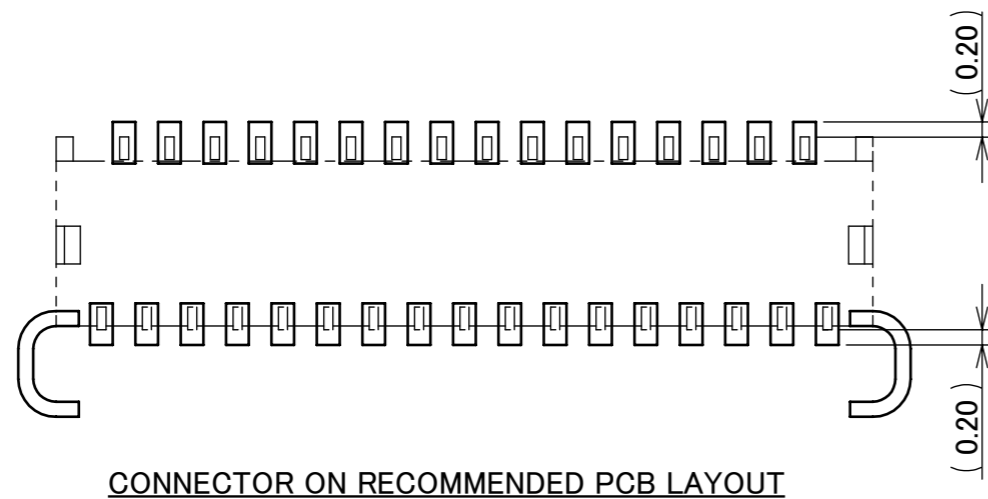


RECOMMENDED PCB & METAL MASK LAYOUT
 METAL MASK THICKNESS : t=0.12mm

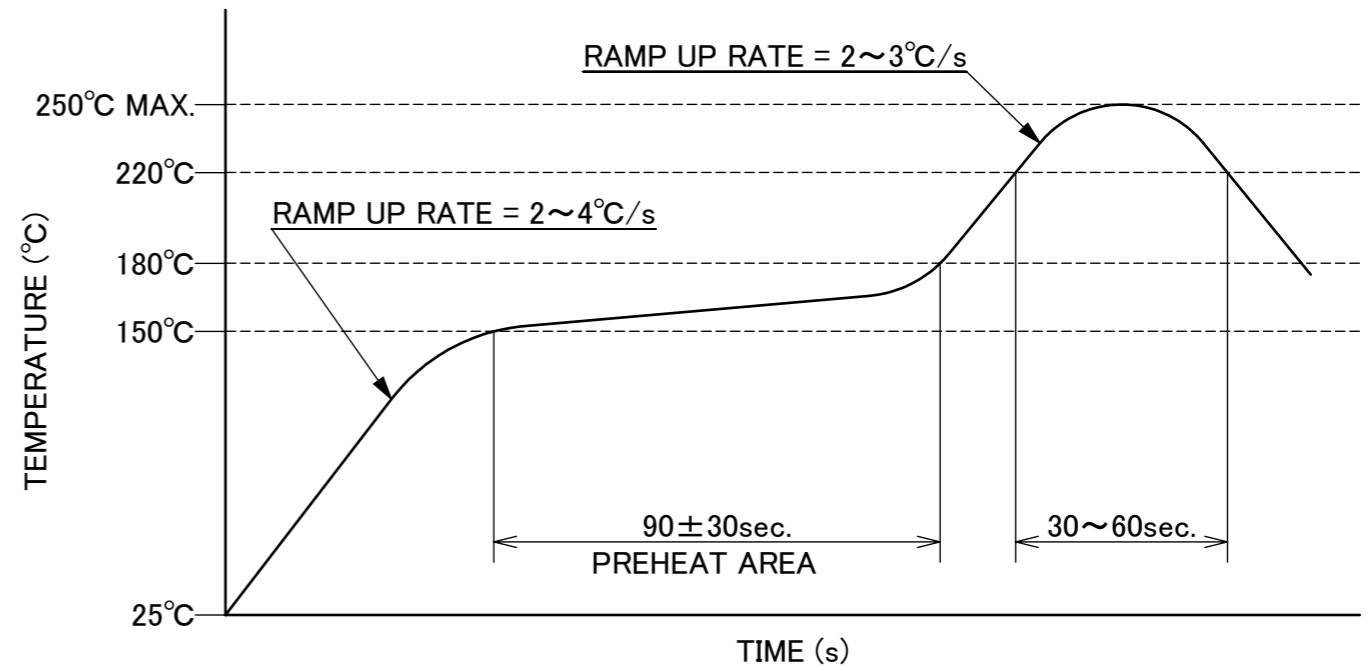


DETAIL AA
 (S=20/1)

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY	
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5			SCALE 10:1	
GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFN LONG ACT TYPE	UNIT mm		
DWG.	DATE	CHK.	DATE	DWG. No. 20538	SIZE A3	SHEET 3/5 REV. 17	



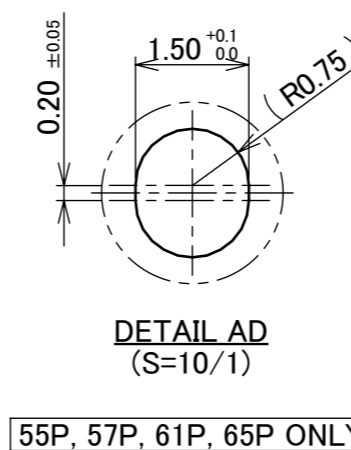
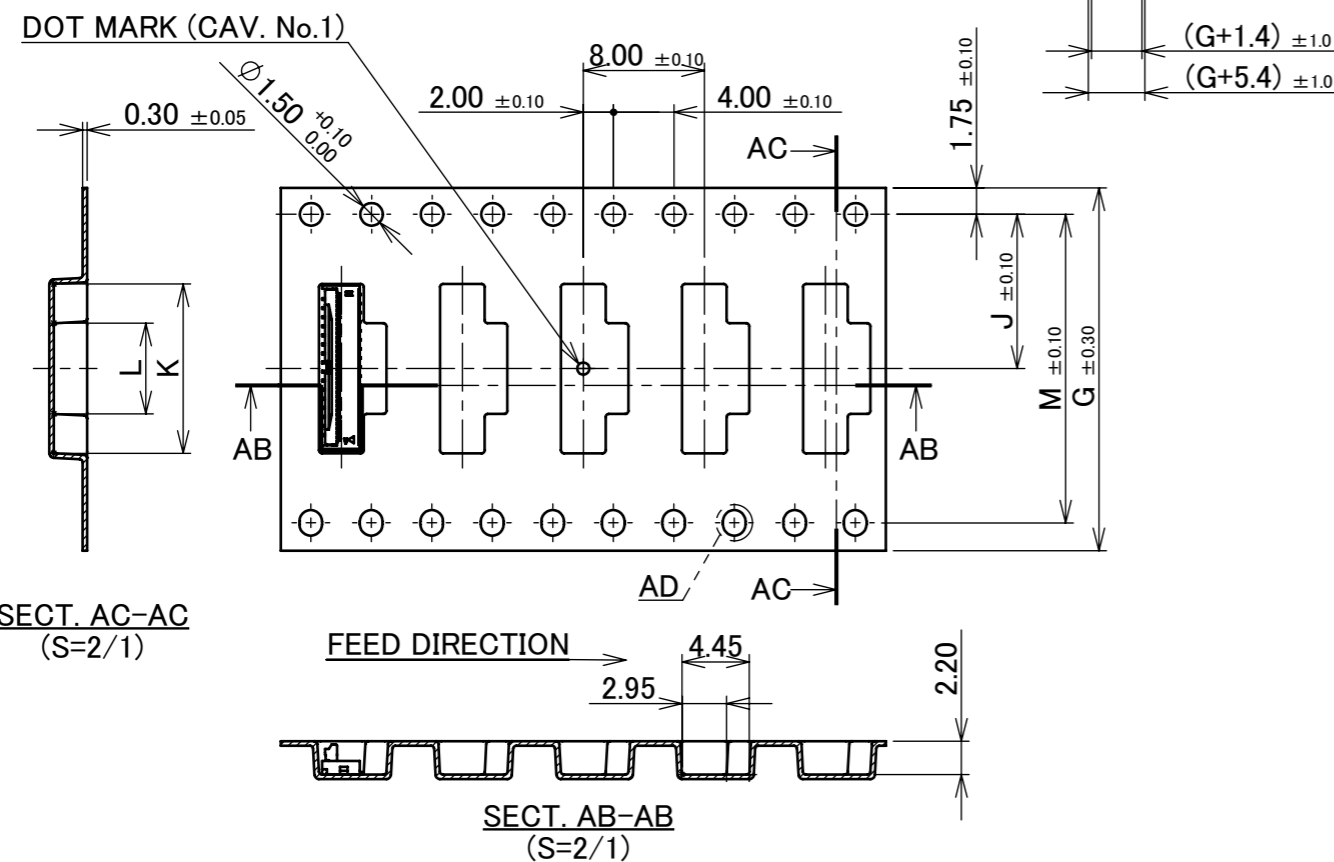
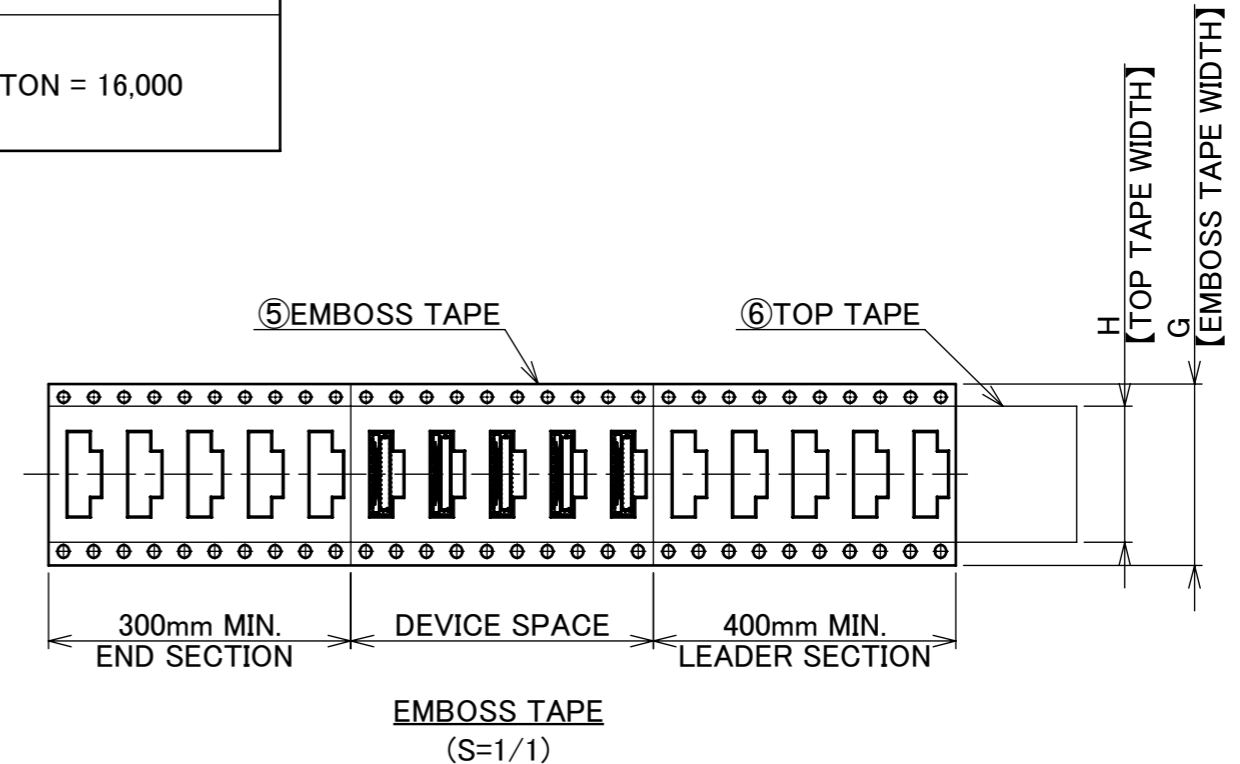
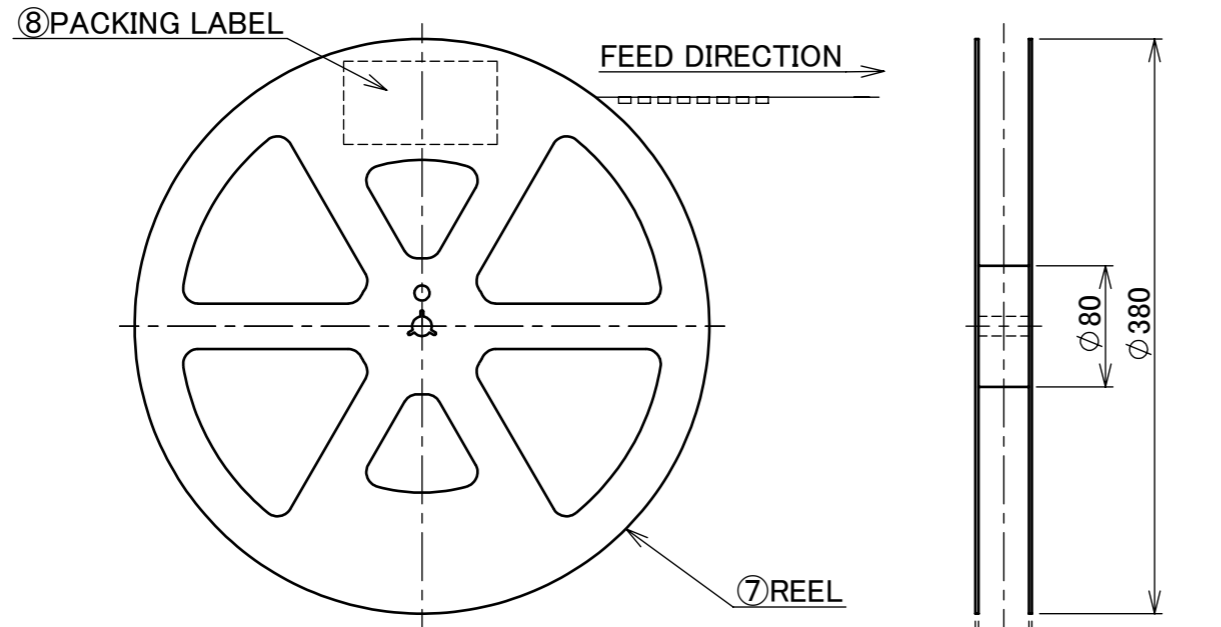
CONNECTOR ON RECOMMENDED PCB LAYOUT



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		SCALE		
DWG.	DATE			MINIFLEX® 3-BFN LONG ACT TYPE		10:1		
CHK.	DATE					UNIT mm		
APP.	DATE			DWG. No.	20538	SIZE A3		
						SHEET	4/5	REV. 17

DEVICE P/N	G	H	J	K	L	M	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20538-033E-0#	24.0	21.5	11.50	11.20	8.00	-	4,000 / REEL	5 / CARTON = 20,000
20538-035E-0#				11.80				
20538-039E-0#				13.00				
20538-041E-0#				13.60				
20538-045E-0#				14.80				
20538-049E-0#				16.00				
20538-051E-0#	16.60	10.00	28.40	4,000 / REEL	5 / CARTON = 20,000			
20538-055E-0#	17.80							
20538-057E-0#	18.40							
20538-061E-0#	19.60							
20538-065E-0#	20.80	32.0	26.0	14.20	10.00	28.40	4,000 / REEL	4 / CARTON = 16,000
20538-065E-0#	20.80							



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

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
8	PACKING LABEL	-	-
7	REEL	PS	BLACK
6	TOP TAPE	PET t=0.061 TRANSPARENCY	ANTI-STATIC TYPE ADHESIVE TYPE
5	EMBOSSE TAPE	PS t=0.3 TRANSPARENCY	ANTI-STATIC TYPE

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R3	
GENERAL TOLERANCE.				TITLE	MINIFLEX® 3-BFN LONG ACT TYPE	SCALE
DWG.	DATE			UNIT		I-PEX
CHK.	DATE			SIZE		
APP.	DATE			A3		
				DWG. No.	20538	

55P, 57P, 61P, 65P ONLY