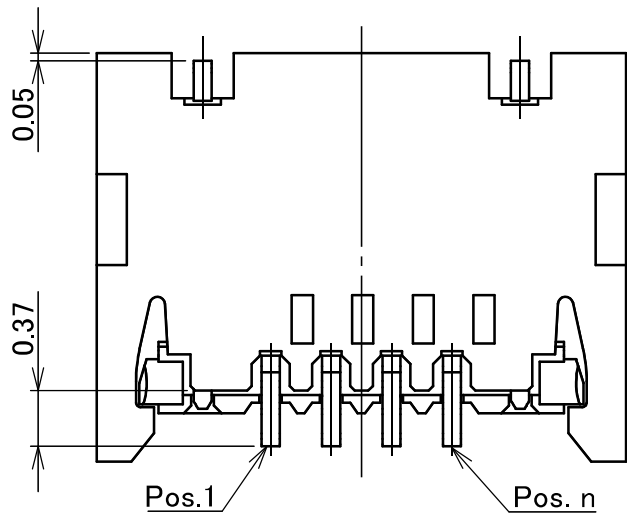
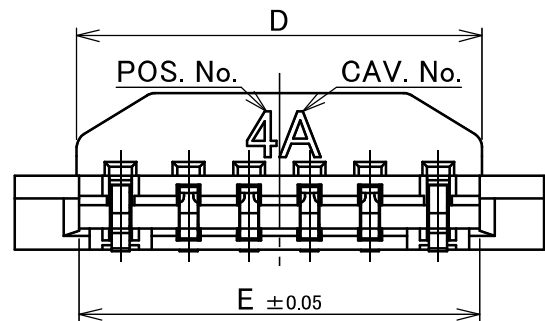
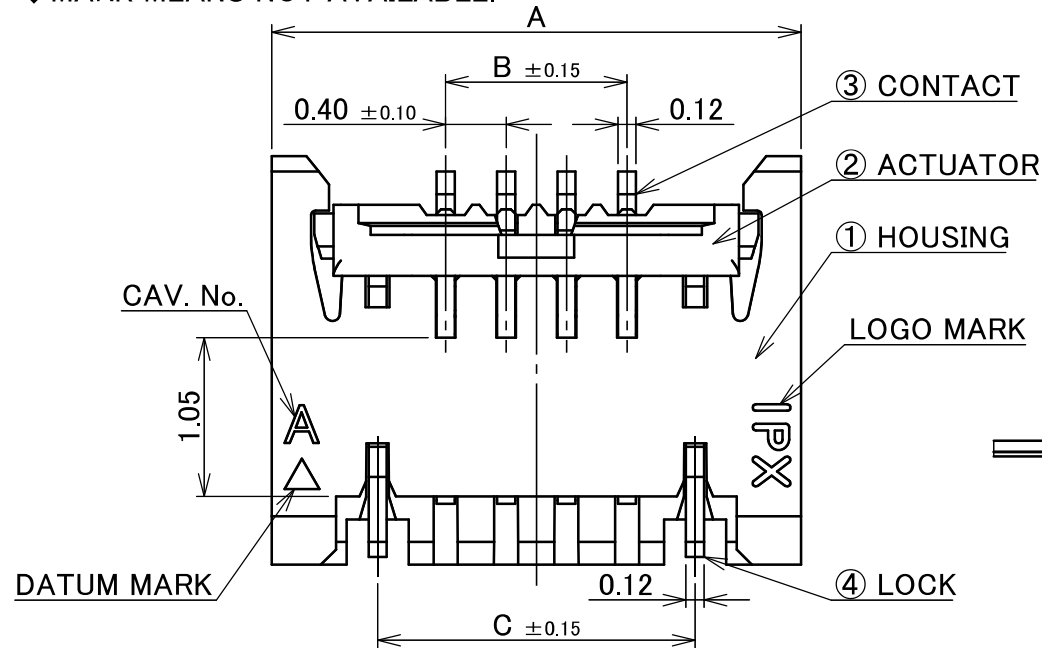
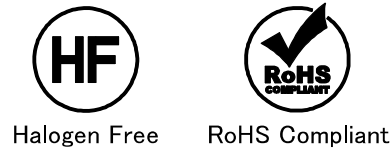
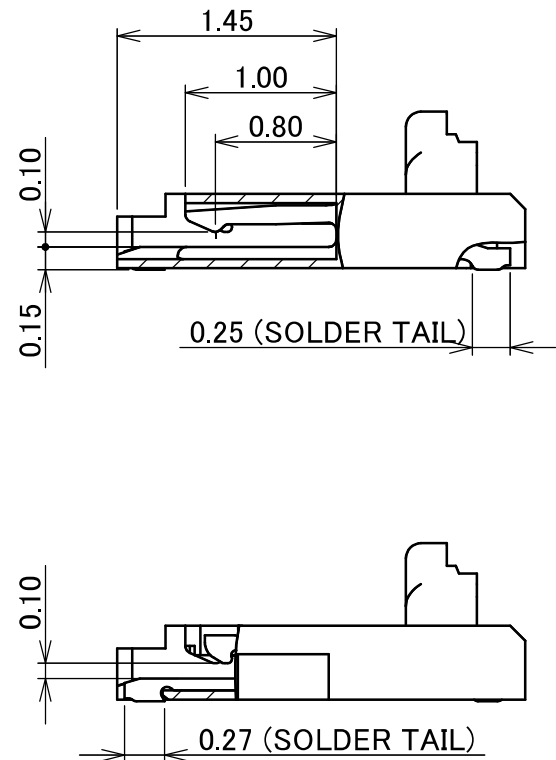
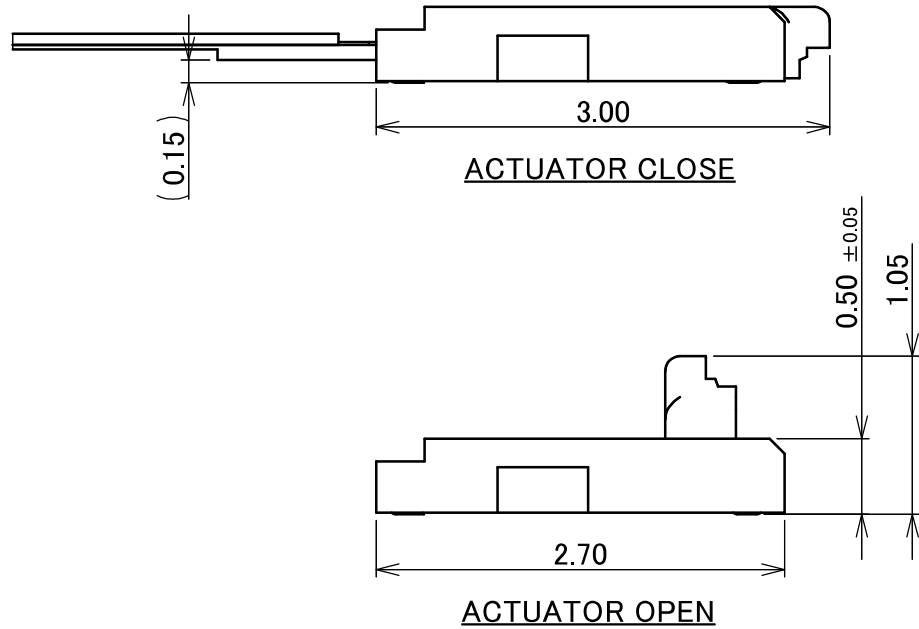


PART No.	Pos.	A	B	C	D	E
20588-004E-01	4P	3.50	1.20	2.10	2.68	2.65
20588-006E-01	6P	4.30	2.00	2.90	3.48	3.45
20588-008E-01	8P	5.10	2.80	3.70	4.28	4.25
20588-010E-01	10P	5.90	3.60	4.50	5.08	5.05
20588-012E-01	12P	6.70	4.40	5.30	5.88	5.85
◆20588-014E-01	14P	7.50	5.20	6.10	6.68	6.65
◆20588-015E-01	15P	7.90	5.60	6.50	7.08	7.05

◆MARK MEANS NOT AVAILABLE.



NOTES
1.CONTACT POINT : ONLY UPPER CONTACT



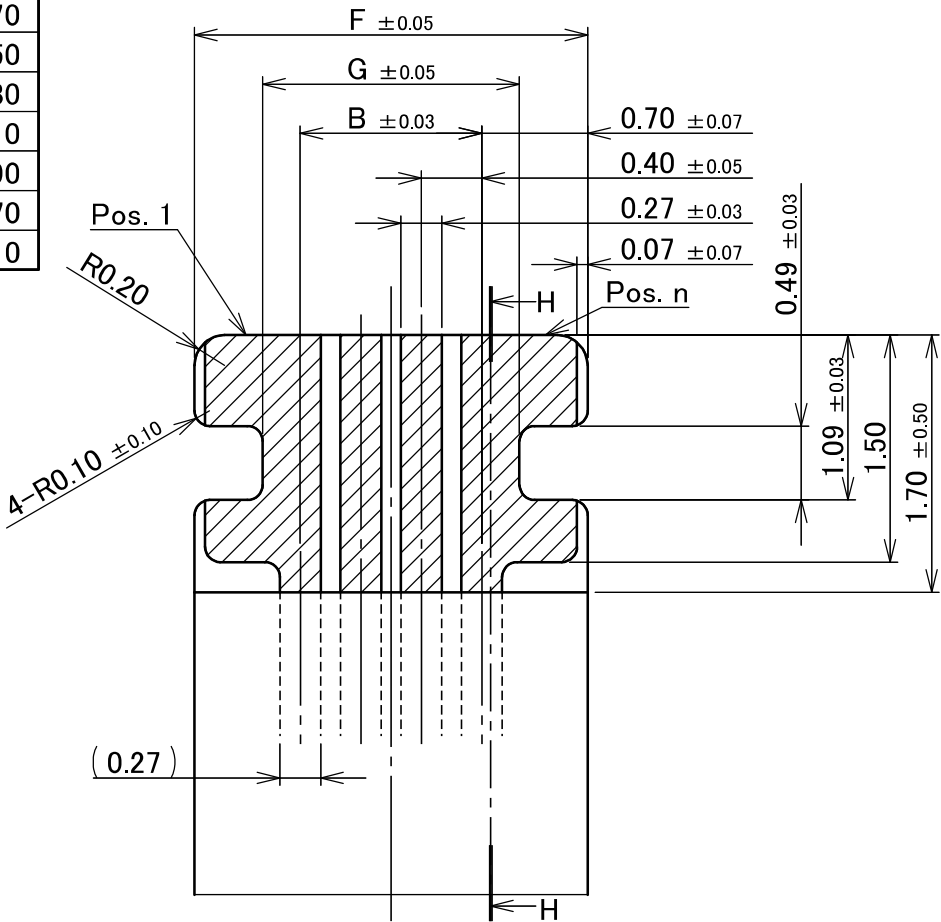
4	LOCK	PHOSPHOR BRONZE	SOLDER AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN. OTHER : Ni 1.00 μ m MIN.
3	CONTACT	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDER AREA : Au 0.03 μ m MIN. OVER Ni 1.00 μ m MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

9	Z250698	S.Sh	May/01/'25	T.M	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R6	CUSTOMER COPY		
8	Z200769	M.M	July/22/'20	Y.S	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
7	Z191240	S.Sh	Sept./17/'19	H.I	GENERAL TOLERANCE.				TITLE MINIFLEX® 4-ST	SCALE 20:1	I-PEX		
6	Z180889	Y.Sasa	Aug./20/'18	Y.S	DWG.	DATE							
5	Z161035	Y.M	Aug./23/'16	Y.S	K.Inomae			2013/11/29					
4	Z160825	Y.M	July/13/'16	Y.S	CHK.	J.Tateishi							
REV.	ECN	BY	DATE	APP.	APP.					DWG. No.	20588	SIZE A3	SHEET 1/5
REVISION RECORD					E.Kawabe								

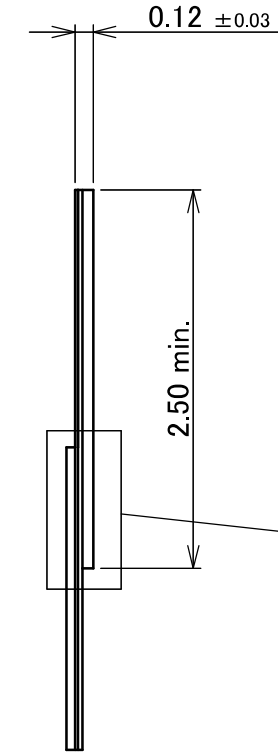
ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (PER CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.4A DC (PER CONTACT)/ 6.0A DC (PER CONNECTOR)
OPERATING TEMPERATURE	233~358K(−40℃~+85℃)
OPERATING HUMIDITY	20~80% (NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : $\triangleleft$ 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V
DURABILITY	20 CYCLES
ACT CLOSING FORCE (INITIAL / AFTER TEST)	4P : 1.8N MAX. / 6P : 2.4N MAX. / 8P : 3.0N MAX. 10P : 3.6N MAX. / 12P : 4.2N MAX.
ACT RELEASING FORCE (INITIAL / AFTER TEST)	4P : 0.06N MIN. / 6P : 0.08N MIN. / 8P : 0.10N MIN. 10P : 0.12N MIN. / 12P : 0.14N MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	4P : 2.50N MIN. / 6P : 2.62N MIN. / 8P : 2.74N MIN. 10P : 2.86N MIN. / 12P : 2.98N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1863
TEST REPORT	TR-13088
PACKING STANDARD	PST-13049
INSTRUCTION MANUAL	HIM-14024
APPEARANCE CRITERIA No.	QLS-A***

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® 4-ST		SCALE 		
DWG.	DATE							
CHK.								
APP.								
				DWG. No. 20588	SIZE A3	SHEET 2/5	REV. 9	

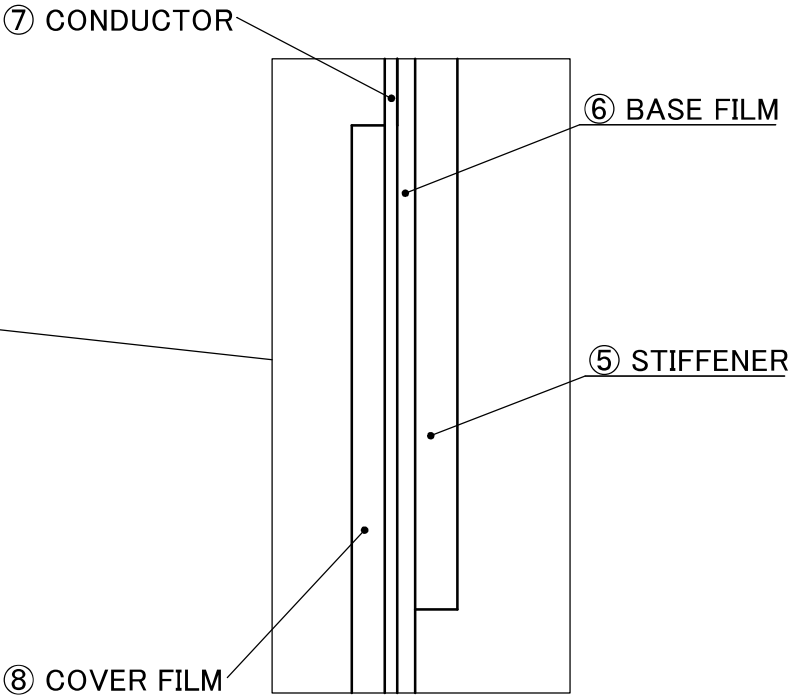
Pos.	B	C	F	G
4P	1.20	2.10	2.60	1.70
6P	2.00	2.90	3.40	2.50
8P	2.80	3.70	4.20	3.30
10P	3.60	4.50	5.00	4.10
12P	4.40	5.30	5.80	4.90
14P	5.20	6.10	6.60	5.70
15P	5.60	6.50	7.00	6.10



RECOMMENDED FPC LAYOUT

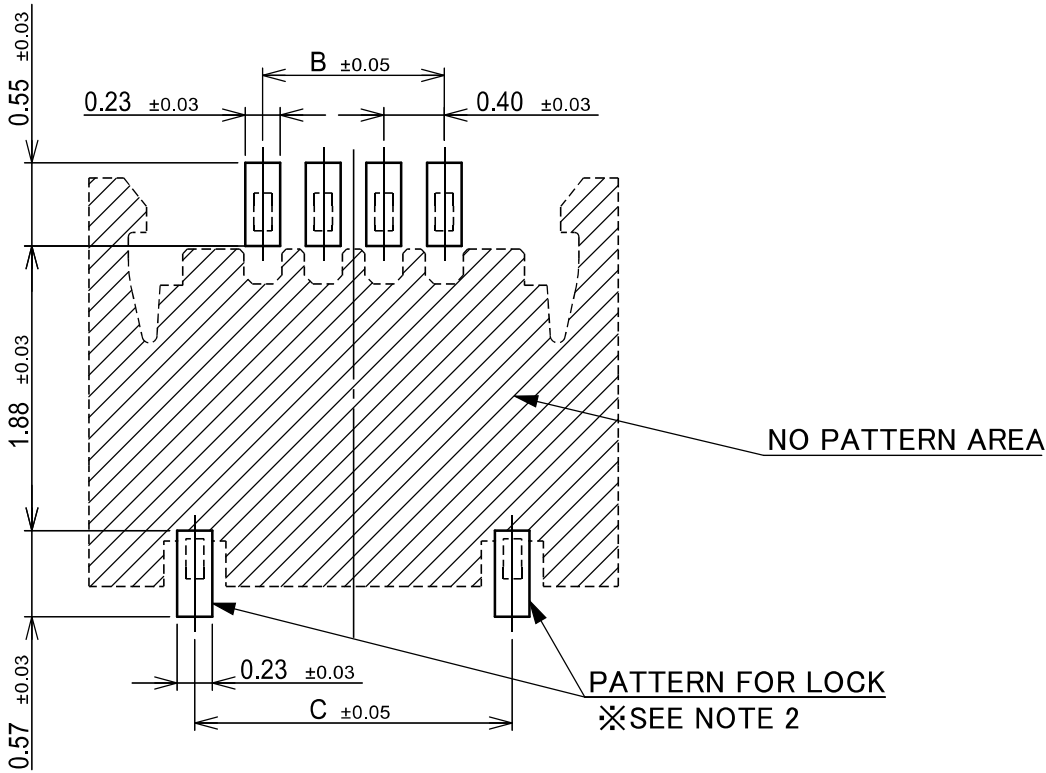


SECT H-H



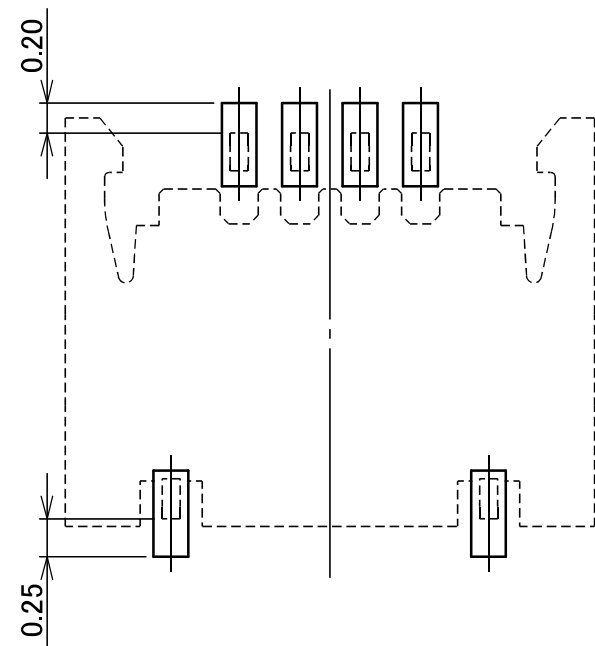
- NOTES.
- PLEASE DO NOT CONNECT THESE TWO SOLDER PADS TO THE ELECTRICAL CIRCUIT, (SIGNAL OR GROUND)
 - ADHESIVE SHOULD USE THERMOSETTING.

8	COVER FILM	PI	
7	CONDUCTOR	COPPER	Au OVER Ni UNDER PLATING
6	BASE FILM	PI	
5	STIFFENER	PI	
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

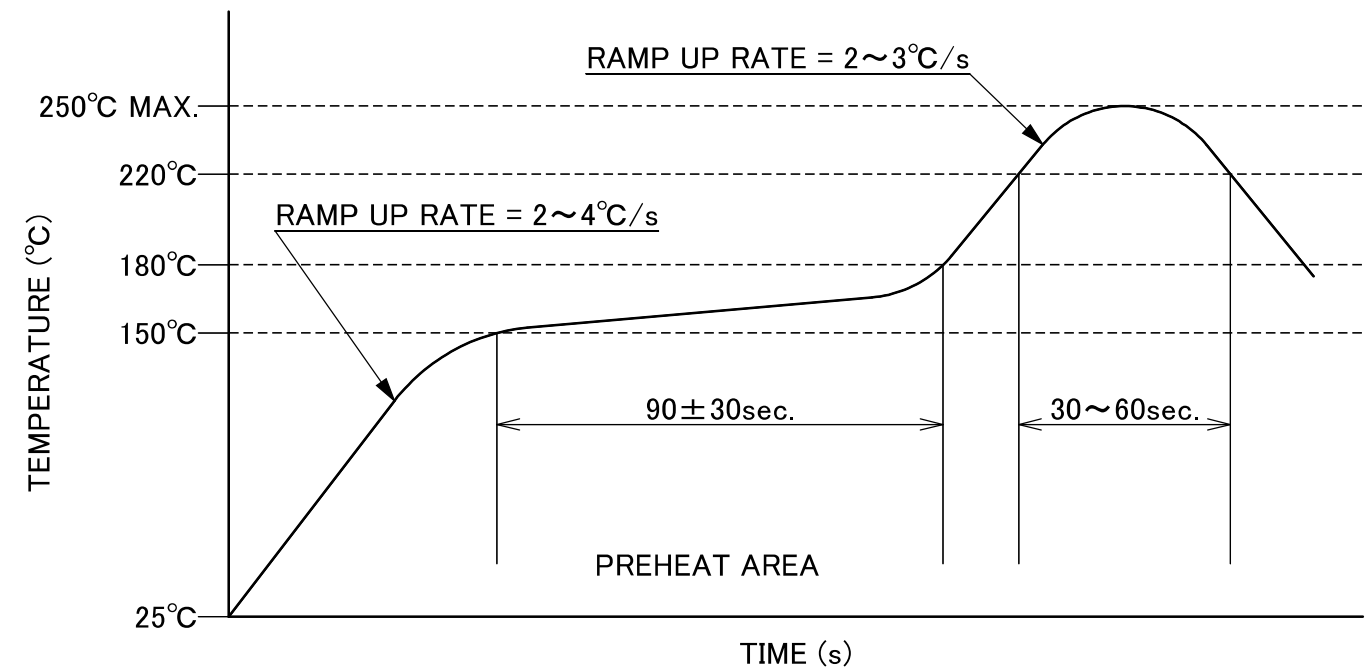


RECOMMENDED PCB AND METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm

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® 4-ST		SCALE	I-PEX	
DWG.	DATE					20:1		
CHK.						UNIT		
						mm		
APP.				DWG. No. 20588		SIZE A3	SHEET 3/5	REV. 9



CONNECTOR LOCATION

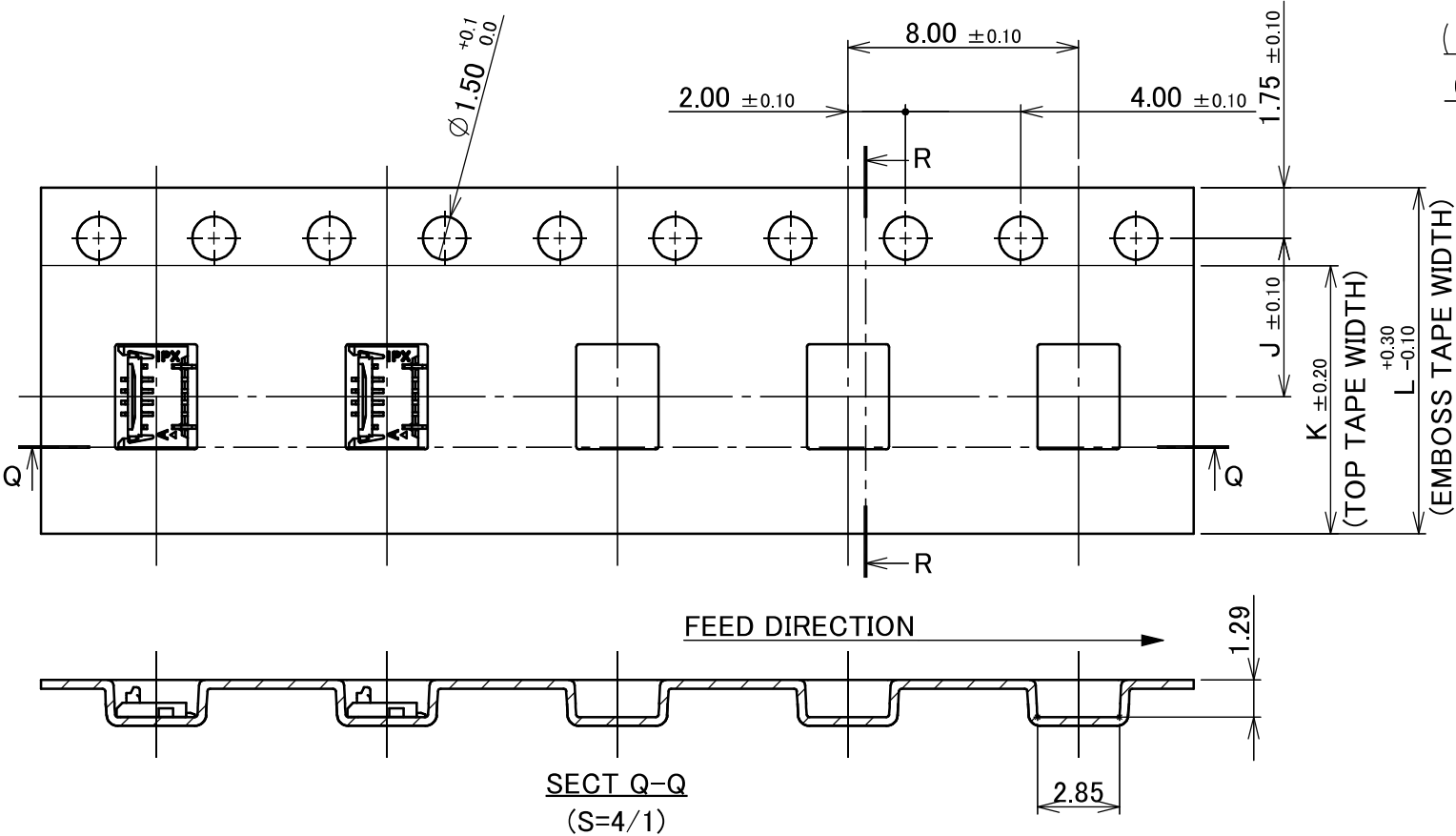
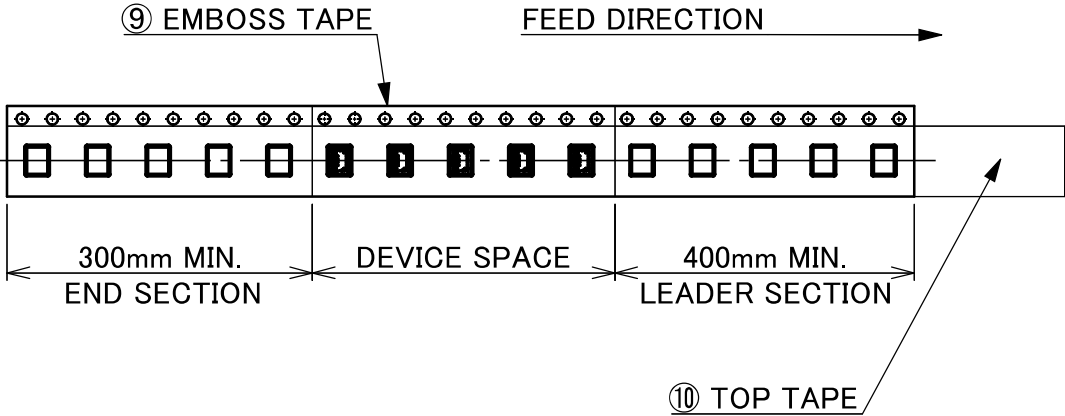
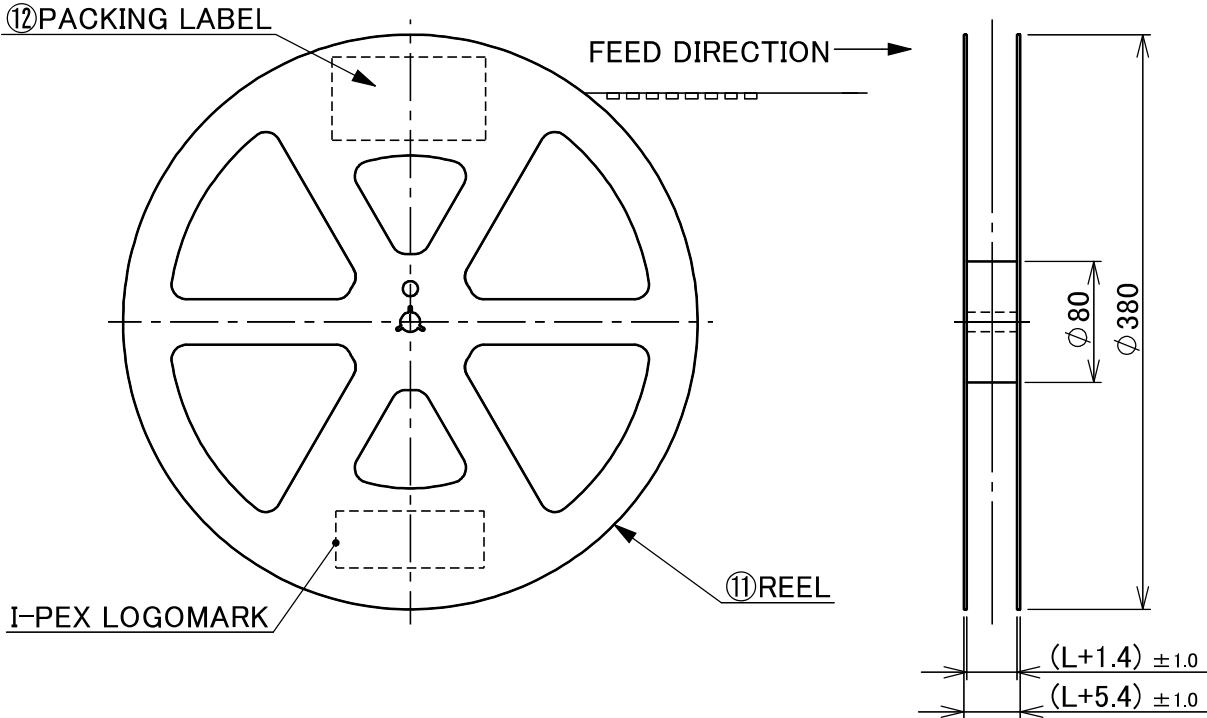


REFLOW TEMPERATURE PROFILE
 SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

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® 4-ST		SCALE	I-PEX	
DWG.	DATE					20:1		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20588		SIZE A3	SHEET 4/5	REV. 9

PART NO.	J	K	L	P	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20588-004E-01	5.50	9.30	12.00	3.65	7000 / REEL	8 / CARTON = 56000
20588-006E-01				4.45		
20588-008E-01				5.25		
20588-010E-01				6.05		
20588-012E-01	7.50	13.30	16.00	6.85	7000 / REEL	7 / CARTON = 49000
◆20588-014E-01				7.65		
◆20588-015E-01				8.05		

◆ MARK MEANS NOT AVAILABLE.



- 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.

12	PACKING LABEL	-	-
11	REEL	PS	BLACK
10	TOP TAPE	PET t=0.046 TRANSPARENCY	ANTI-STATIC TYPE
9	EMBOSS TAPE	PS t=0.3 TRANSPARENCY	ANTI-STATIC TYPE
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

SECT R-R
(S=4/1)

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® 4-ST		SCALE	I-PEX	
DWG.	DATE					X:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20588	SIZE	SHEET	REV.
						A3	5/5	9