

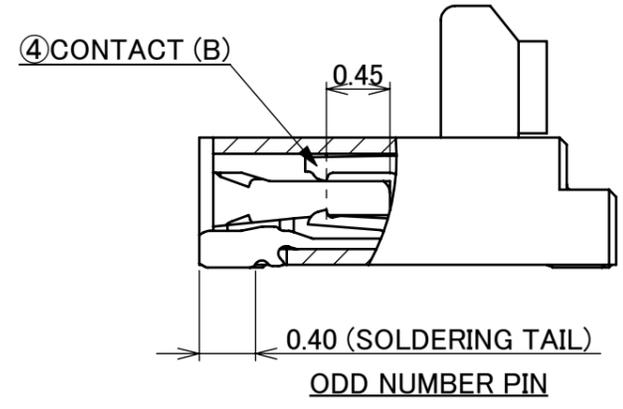
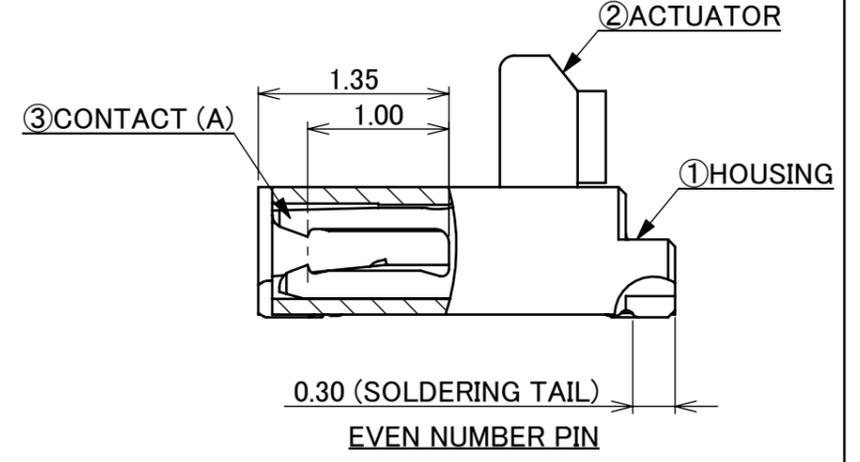
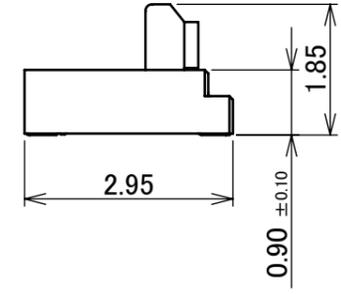
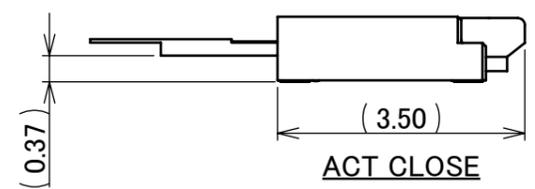
Halogen Free



RoHS Compliant

PART No.	Pos.	A	B	C	D	E	F
◆20660-031E-01	31P	11.40	8.40	9.00	9.65	10.00	10.25
20660-039E-01	39P	13.80	10.80	11.40	12.05	12.40	12.65
20660-061E-01	61P	20.40	17.40	18.00	18.65	19.00	19.25
◆20660-071E-01	71P	23.40	20.40	21.00	21.65	22.00	22.25

◆MARK MEANS NOT AVAILABLE.



NOTE
1. CONTACT POINT: TOP AND BOTTOM CONTACT

5	HOLD DOWN	BRASS	
4	CONTACT(B)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.0 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.
3	CONTACT(A)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.0 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.0 μm MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DISCRIPTION	MATERIAL	REMARKS

11	Z241277	S.Sh	Sept./17/'24	T.M	ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R3	CUSTOMER COPY		
10	Z240681	S.Sh	July/01/'24	T.M	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
9	Z240276	S.Sh	Mar./01/'24	T.M	GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFNH L-HD	SCALE 10:1	UNIT mm		
8	Z230456	M.M	Apr./20/23	H.I	DWG.	M.Muro	DATE	2015/11/30					
7	Z230318	K.W	Mar./20/23	M.T	CHK.								
6	Z200554	M.M	May/29/'20	Y.S	APP.								
REV.	ECN	BY	DATE	APP.	APP.	Y.Shimada			DWG. No.	20660	SIZE	SHEET	REV.
REVISION RECORD										A3	1/5	11	

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : \triangleleft 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.245N(24.5gf) \times n MAX. / 20TH CYCLES : 0.245N(24.5gf) \times n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.014N(1.4gf) \times n MIN. / 20TH 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-2073
TEST REPORT	TR-15025
PACKING STANDARD	PST-15042
INSTRUCTION MANUAL	HIM-14004
APPEARANCE CRITERIA No.	QLS-A***

※ "n" IS THE NUMBER OF PIN

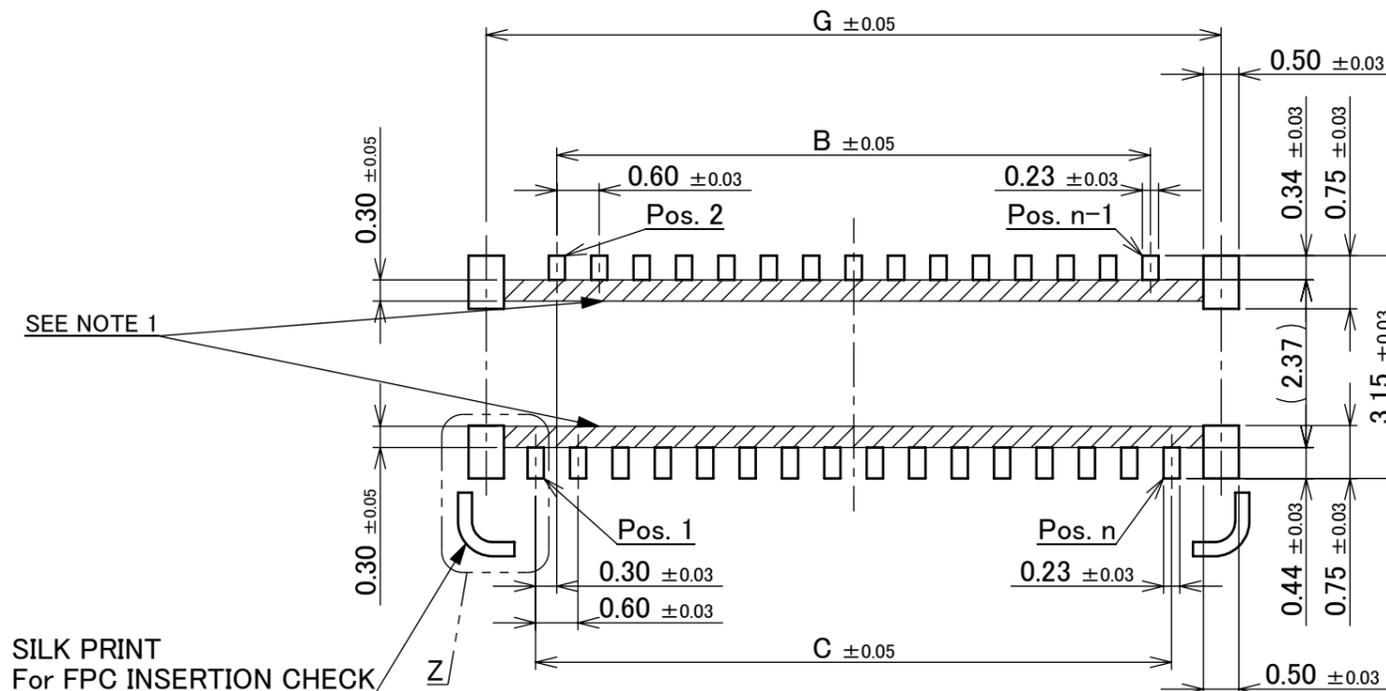


PLEASE BE SURE TO READ AND UNDERSTAND "INSTRUCTION MANUAL" BEFORE YOU USE OUR PRODUCTS.

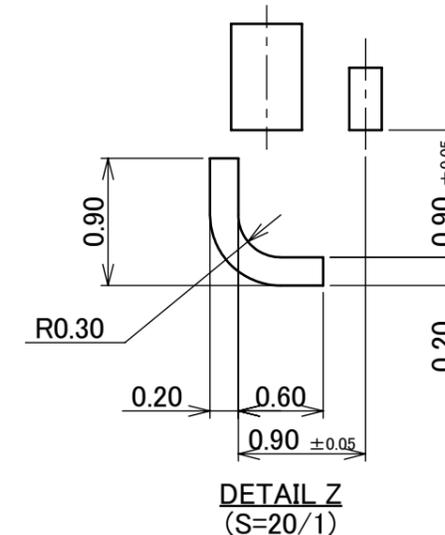
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY	
	6 MAX.	± 0.2	30 OVER 120 MAX.			± 0.5	SCALE -
GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFNH L-HD	UNIT mm		
DWG.	DATE			DWG. No. 20660	SIZE A3	SHEET 2/5	REV. 11
CHK.							
APP.							

PART No.	Pos.	B	C	G	H
◆20660-031E-01	31P	8.40	9.00	10.40	9.60
20660-039E-01	39P	10.80	11.40	12.80	12.00
20660-061E-01	61P	17.40	18.00	19.40	18.60
◆20660-071E-01	71P	20.40	21.00	22.40	21.60

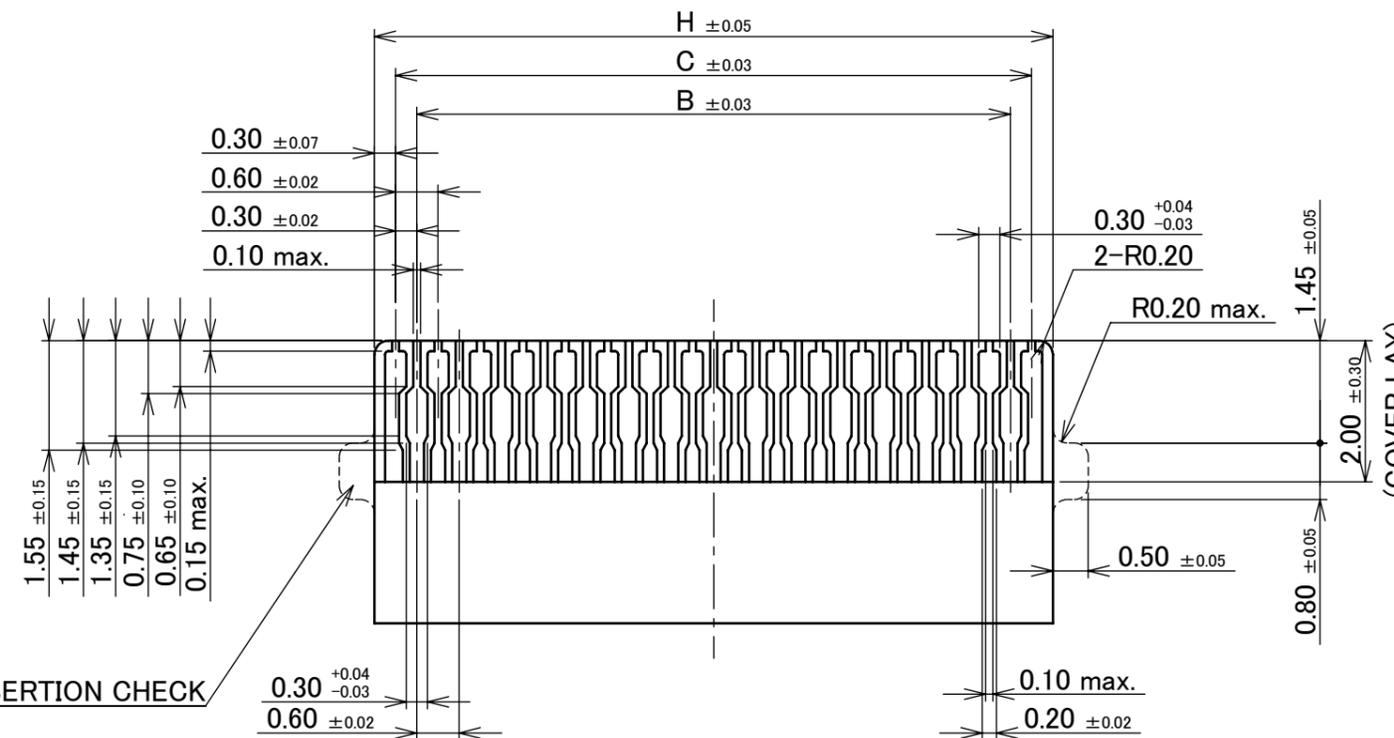
◆MARK MEANS NOT AVAILABLE.



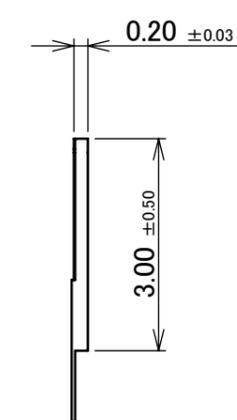
RECOMMENDED PCB LAYOUT & METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm



SILK PRINT
For FPC INSERTION CHECK

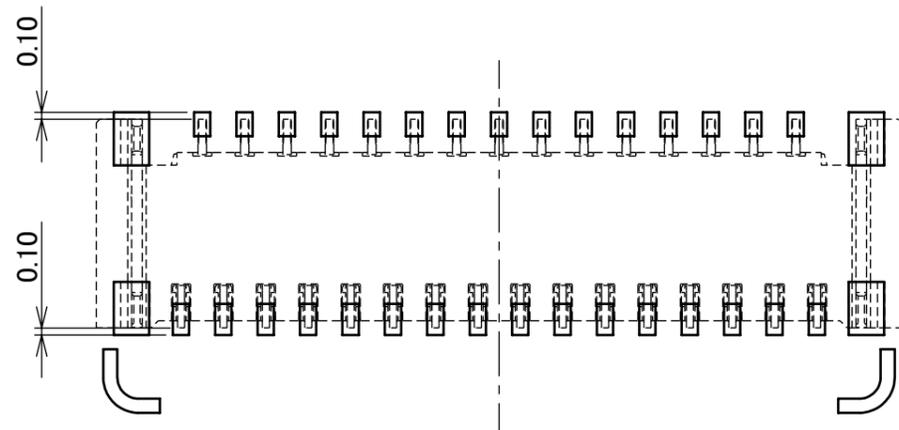


RECOMMENDED FPC LAYOUT

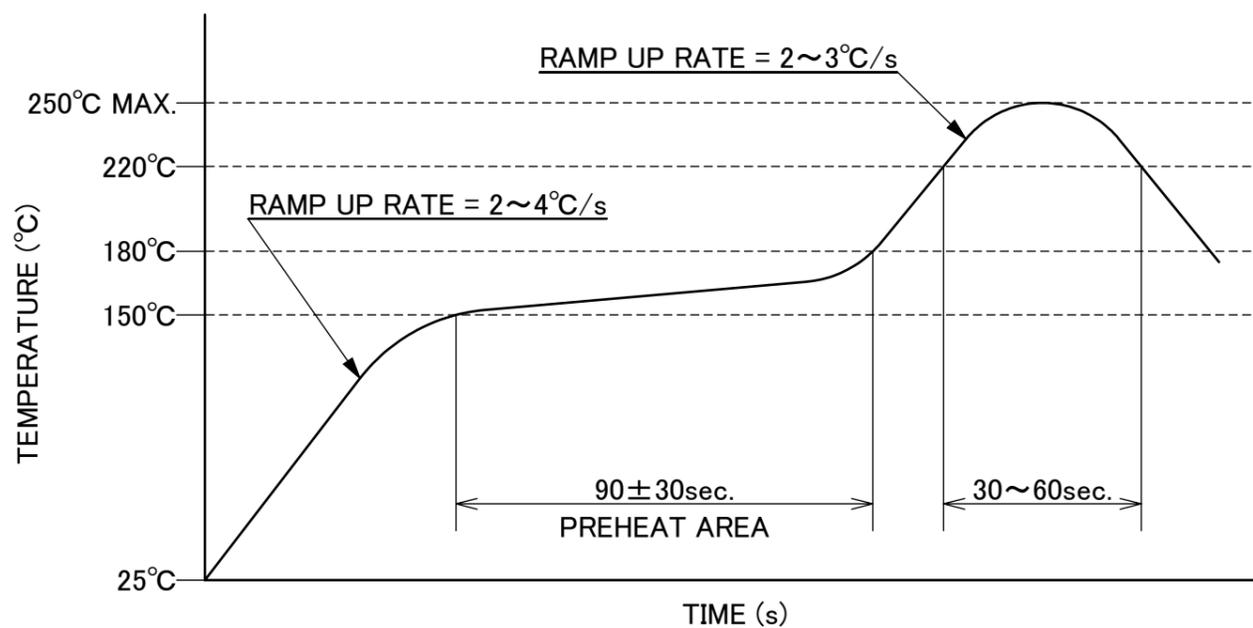


NOTE
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

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	SCALE	I-PEX	
DWG.	DATE			MINIFLEX® 3-BFNH L-HD	10:1		
CHK.				DWG. No.	UNIT		
APP.				20660	mm	SIZE	SHEET
					A3	3/5	REV.
							11



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN

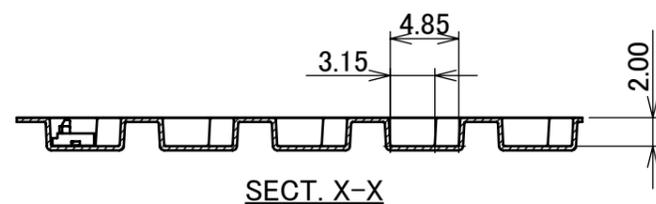
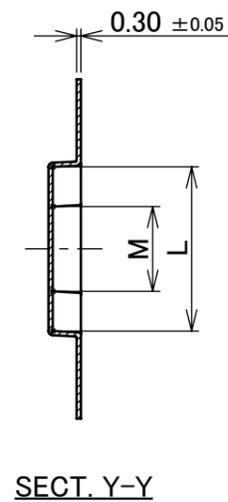
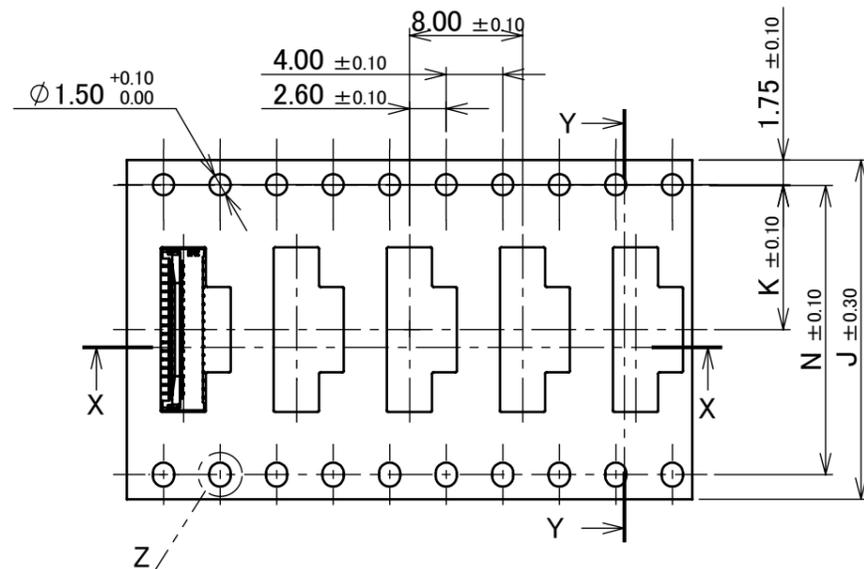
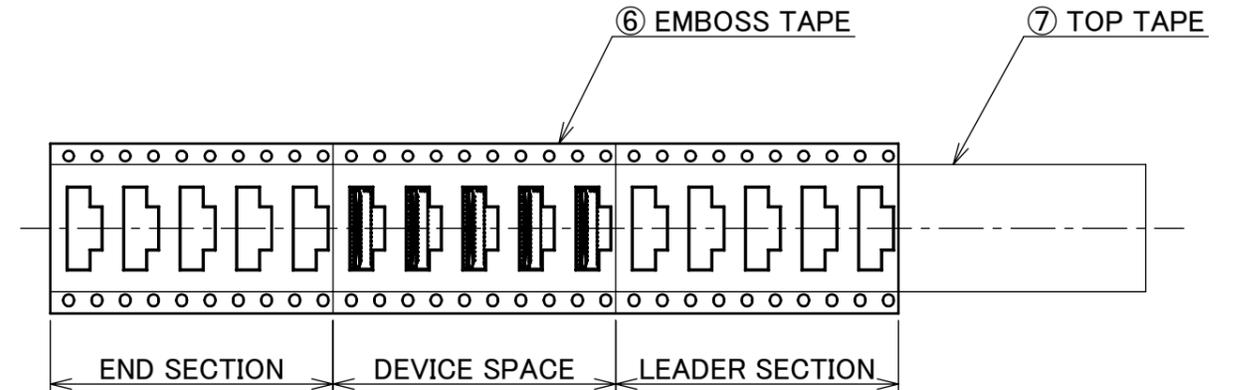
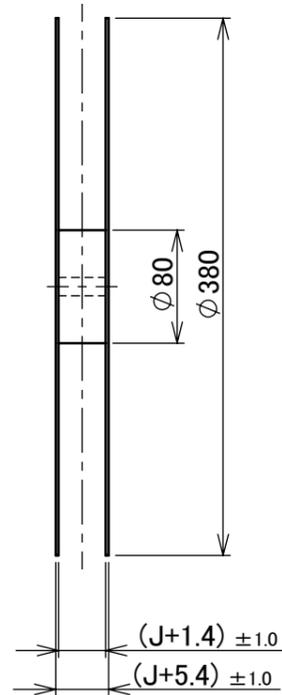
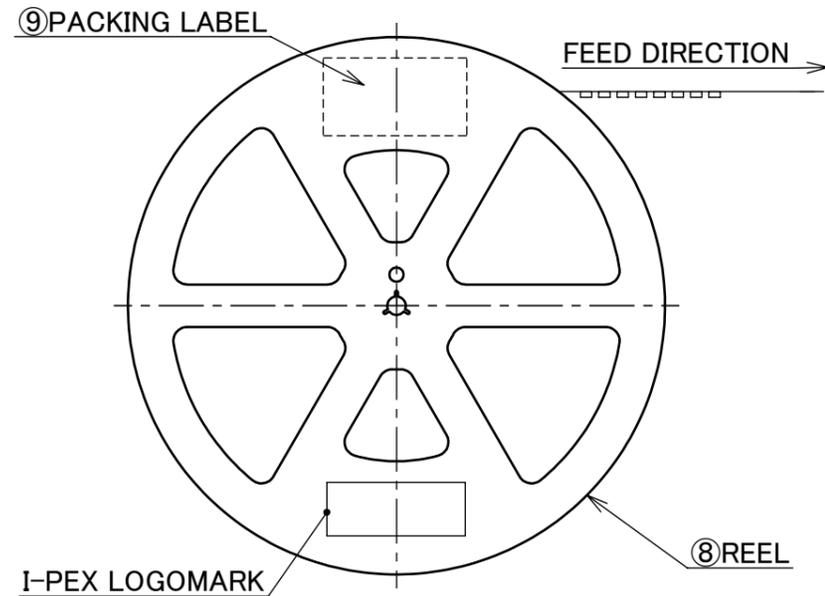


REFLOW TEMPERATURE PROFILE
 SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY	
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5				
GENERAL TOLERANCE.				TITLE MINIFLEX® 3-BFNH L-HD	SCALE 10:1	UNIT I-PEX	
DWG.	DATE						
CHK.							
APP.							
DWG. No.	20660			SIZE A3	SHEET 4/5	REV. 11	

PART No.	J	K	L	M	N	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
◆20660-031E-01	24.00	11.50	11.60	6.00	-	4000 PIECES / REEL	5 REELS / CARTON (20000 PIECES / CARTON)
20660-039E-01			14.00	8.00			(20000 PIECES / CARTON)
20660-061E-01	44.00	20.20	20.60	10.00	40.40		3 REELS / CARTON (12000 PIECES / CARTON)
◆20660-071E-01			23.60				

◆ 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.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
9	PACKING LABEL	-	-
8	REEL	PS	BLACK
7	TOP TAPE	PET t=0.062 TRANSPARENCY	ANTI-STATIC TYPE
6	EMBOSS 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-BFNH		SCALE	-	
DWG.	DATE			L-HD		UNIT	I-PEX		
CHK.						mm			
APP.				DWG. No.	20660	SIZE	SHEET	REV.	
						A3	5/5	11	