

Recommended P/N 20720-0**E-02

PART NO.	POS.	A	B	C	D	E	F
20720-010E-02	10P	6.30	4.50	10.17	11.25	2.50	7.10
20720-015E-02	15P	8.80	7.00	12.67	13.75	5.00	9.60
20720-020E-02	20P	11.30	9.50	15.17	16.25	7.50	12.10
20720-024E-02	24P	13.30	11.50	17.17	18.25	7.50	14.10
20720-030E-02	30P	16.30	14.50	20.17	21.25	12.50	17.10
20720-040E-02	40P	21.30	19.50	25.17	26.25	17.50	22.10

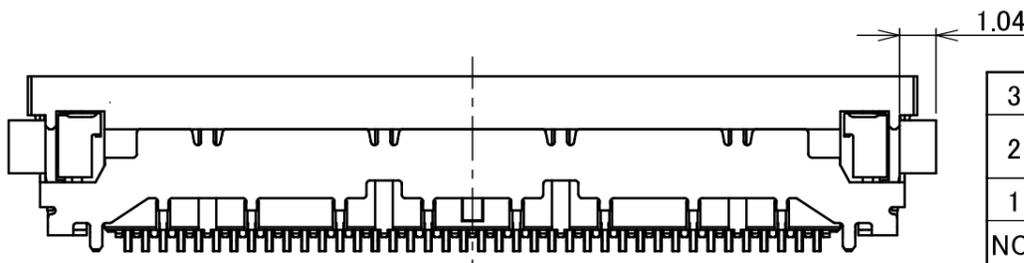
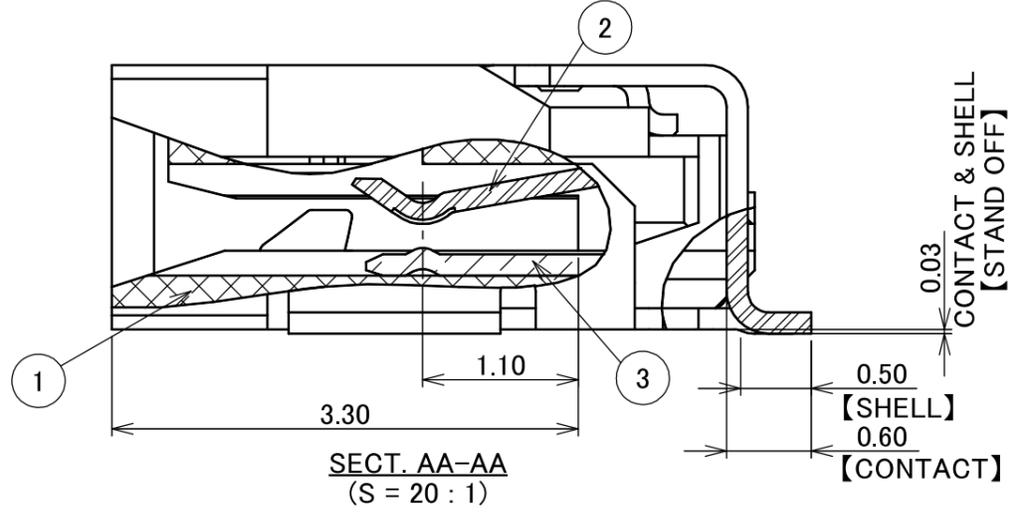
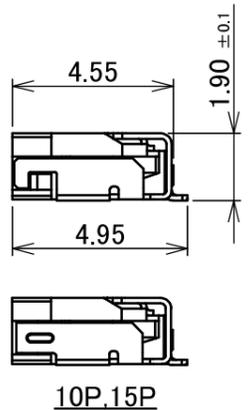
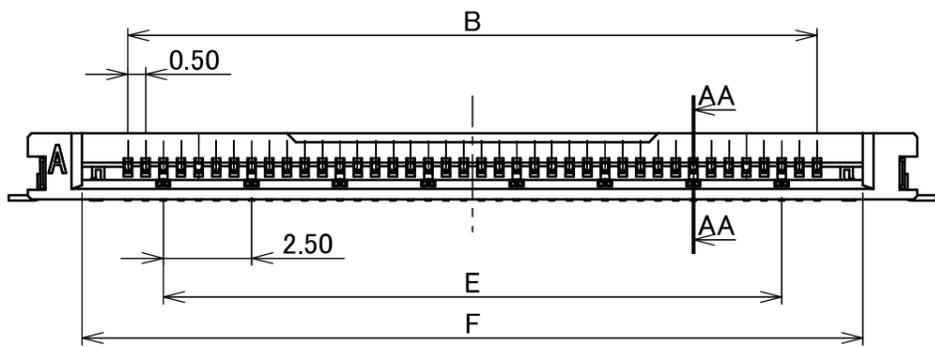
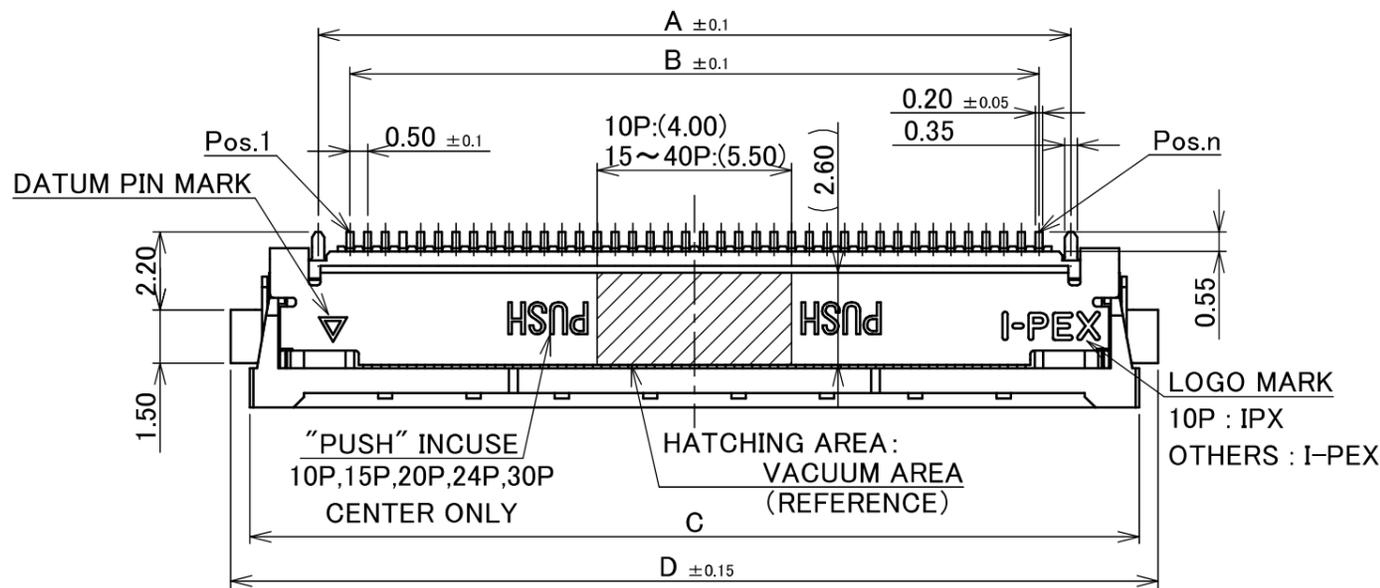
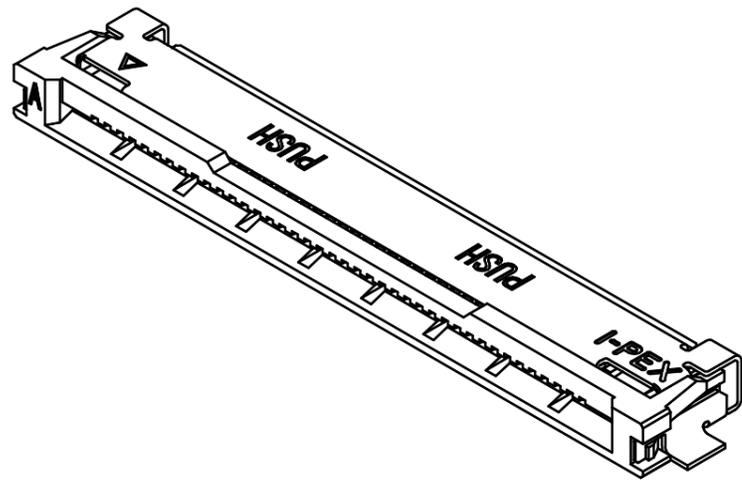
P/N: 20720-0**E-02
Pos.



Halogen Free



RoHS Compliant



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	Sn OVER Ni PLATING
2	CONTACT	CORSON ALLOY	Au OVER Ni PLATING CONTACT AREA: Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK

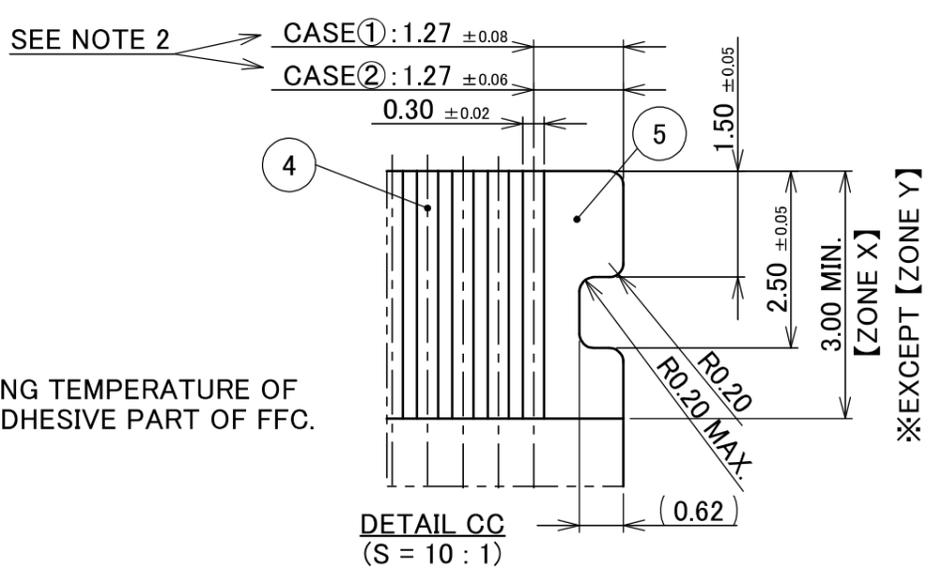
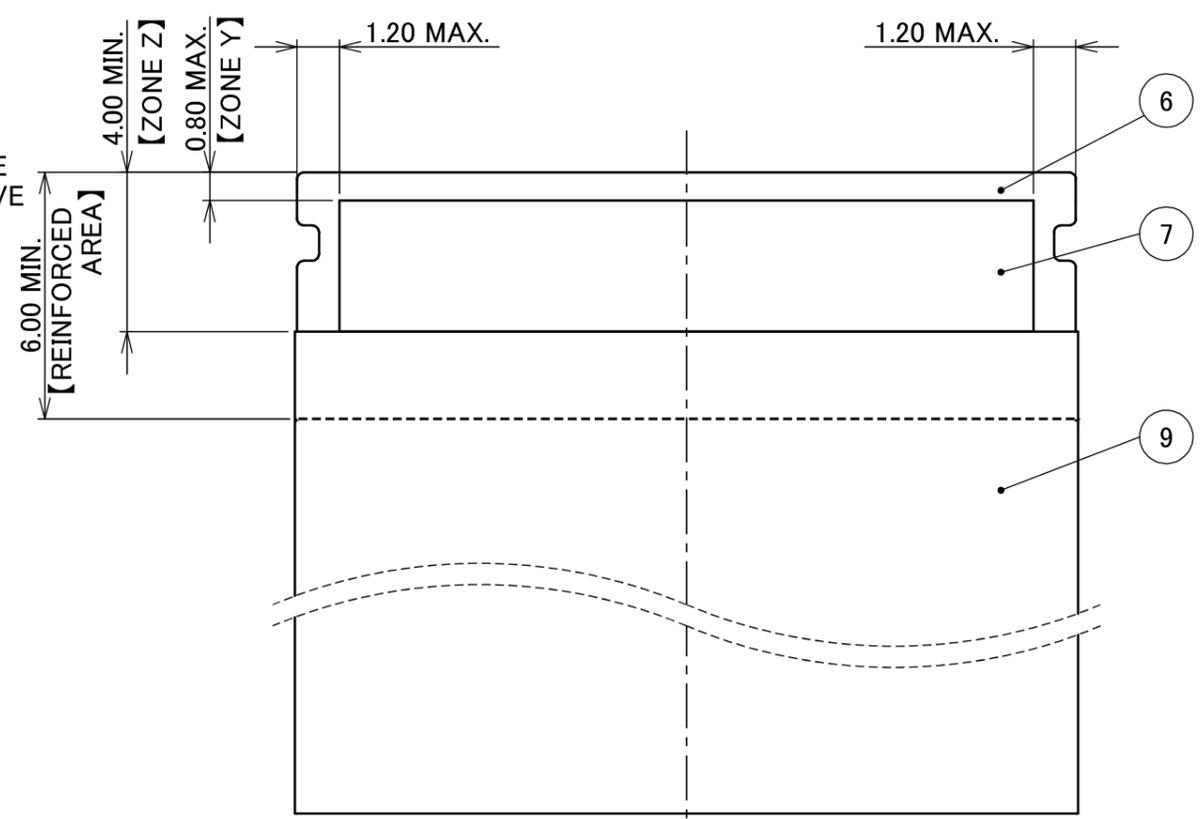
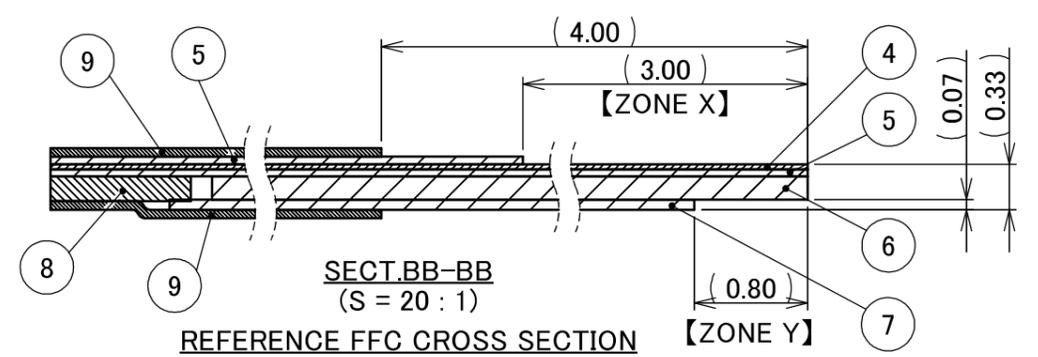
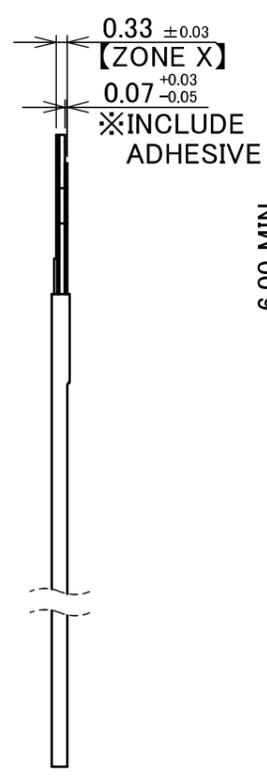
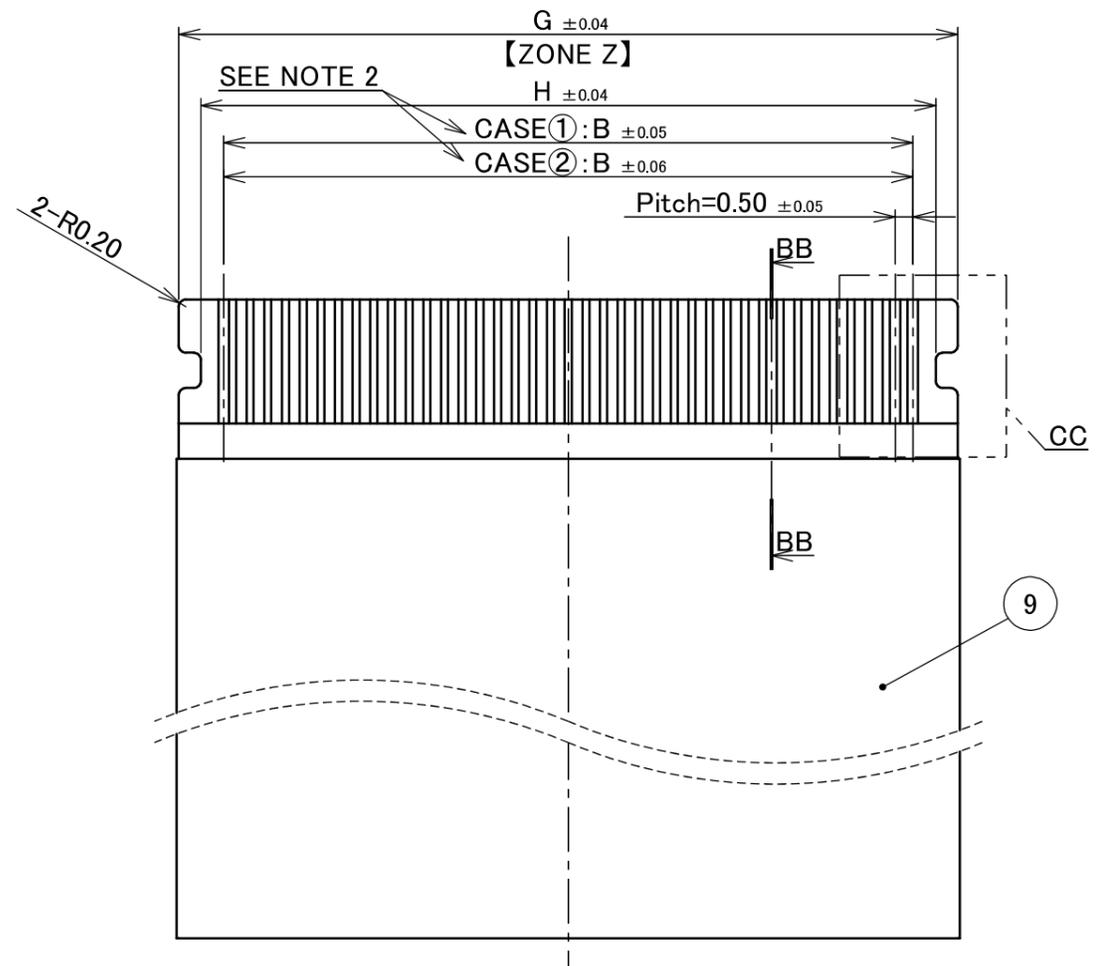
REV.	ECN	BY	DATE	APP.	APP.	ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	TITLE	SCALE	UNIT	SIZE	SHEET	REV.
10	ZC00536	Mino	2026/03/12	H.I	J.Tateishi	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5	⊕	R1	EVAFLEX® 5-VS TYPE CH	5:1	mm	A3	1/5	10
9	ZC00296	Mino	2025/11/27	T.M		GENERAL TOLERANCE.											
8	ZC00180	Mino	2025/10/17	T.M		DWG.		DATE									
7	Z230333	K.W	2023/03/23	M.T		T.Tanigawa		2015/11/25									
6	Z220271	K.H	2022/03/10	H.I		CHK.											
5	Z210974	K.H	2021/08/23	H.I		T.Kurachi											
REVISION RECORD						J.Tateishi				DWG. No.	20720						

ITEMS	SPECIFICATION
RATING VOLTAGE	200V AC/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.3A AC/DC (PER CONTACT PIN) IN CASE OF APPLYING 0.5A PER CONTACT PIN, THE TOTAL CURRENT OF THE WHOLE CONNECTOR SHALL BE 15.0A OR LOWER.
OPERATING TEMPERATURE	233~378K(-40°C~+105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : \triangle 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 100Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	10P : 6.0N MAX. 15P : 9.0N MAX. 20P : 12.0N MAX. 24P : 14.4N MAX. 30P : 18.0N MAX. 40P : 24.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10P : 1.0N MIN. 15P : 1.5N MIN. 20P : 2.0N MIN. 24P : 2.4N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2224
TEST REPORT	TR-16039
PACKING STANDARD	300-997
INSTRUCTION MANUAL	HIM-12003
APPEARANCE CRITERIA No.	QLS-A***

ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R1	CUSTOMER COPY		
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5					
GENERAL TOLERANCE.				TITLE EVAFLEX® 5-VS TYPE CH	SCALE 	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20720	SIZE A3	SHEET 2/5	REV. 10

FOR	POS.	B	G	H
20720-010E-02	10P	4.50	7.04	5.80
20720-015E-02	15P	7.00	9.54	8.30
20720-020E-02	20P	9.50	12.04	10.80
20720-024E-02	24P	11.50	14.04	12.80
20720-030E-02	30P	14.50	17.04	15.80
20720-040E-02	40P	19.50	22.04	20.80

RECOMMENDED FFC DIMENSION



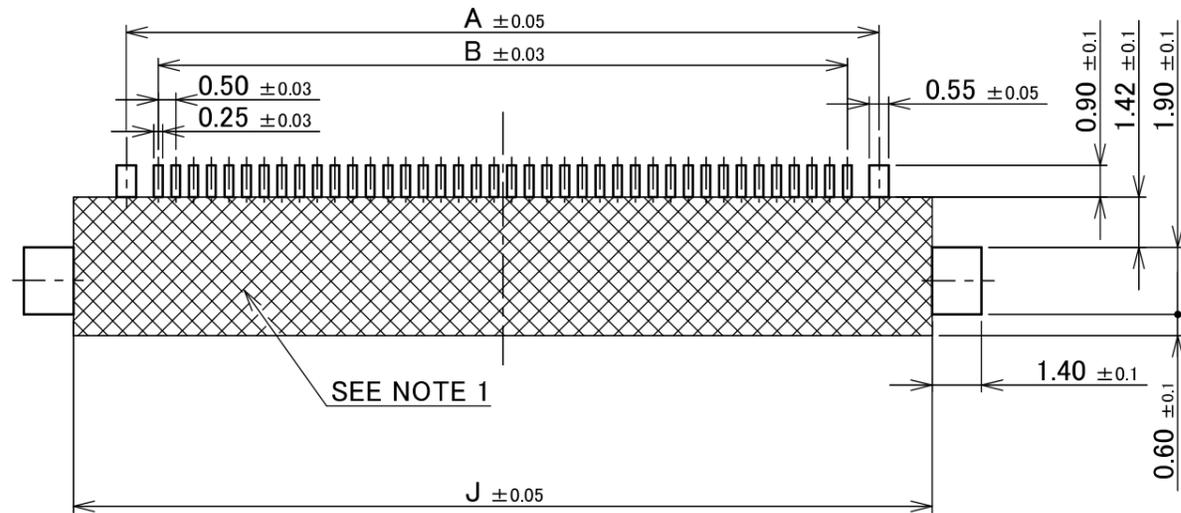
- NOTES
1. DIFFERENTIAL IMPEDANCE : 100Ω
 2. MANUFACTURE CASE① or CASE②
 3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
9	SHIELD TAPE	METALIC FILM	-
8	INTERLAYER	ARBITRARY	-
7	GROUND PLATE	METARIC FILM	POLISH or HALF POLISH Sn PLATING
6	REINFORCED TAPE	ARBITRARY	-
5	INSULATION FILM	ARBITRARY	-
4	CONDUCTOR	COPPER ALLOY	CONTACT AREA: Au 0.05 μ m MIN. OVER Ni 0.5 μ m MIN.

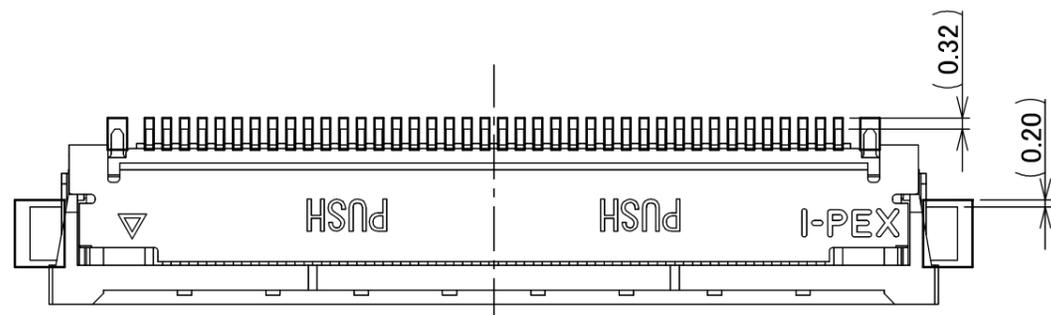
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R1	CUSTOMER COPY			
	6 MAX.	±0.2	30 OVER 120 MAX.				±0.5		
GENERAL TOLERANCE.				TITLE EVAFLEX® 5-VS TYPE CH	SCALE 5:1	UNIT mm			
DWG.	DATE		DWG. No. 20720				SIZE A3	SHEET 3/5	REV. 10
CHK.	DATE								
APP.	DATE								

Recommended P/N 20720-0**E-02

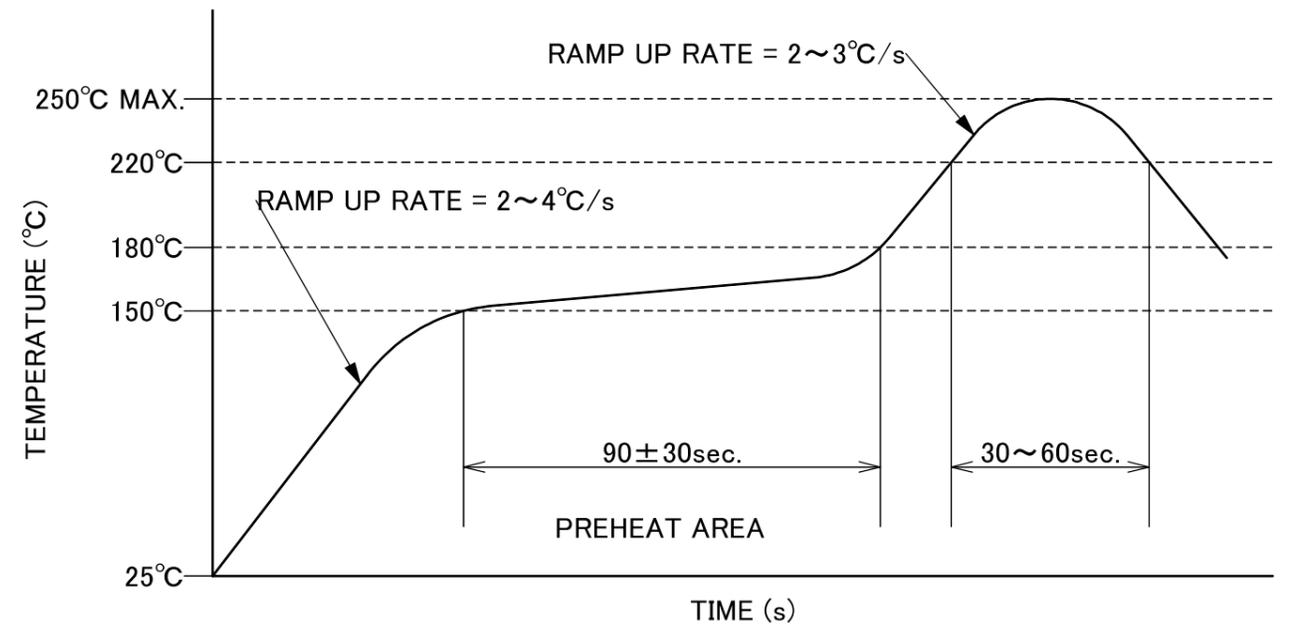
PART NO.	POS.	A	B	J
20720-010E-02	10P	6.30	4.50	9.30
20720-015E-02	15P	8.80	7.00	11.80
20720-020E-02	20P	11.30	9.50	14.30
20720-024E-02	24P	13.30	11.50	16.30
20720-030E-02	30P	16.30	14.50	19.30
20720-040E-02	40P	21.30	19.50	24.30



RECOMMENDED PCB & METALMASK LAYOUT
METALMASK THICKNESS: t=0.12



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN

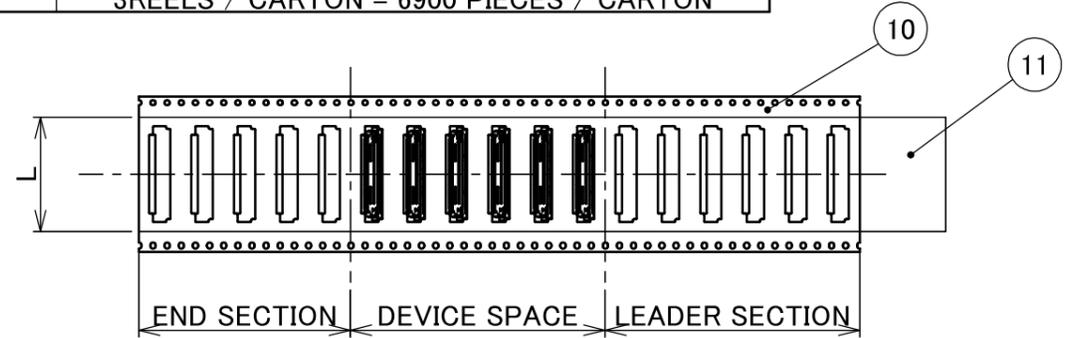
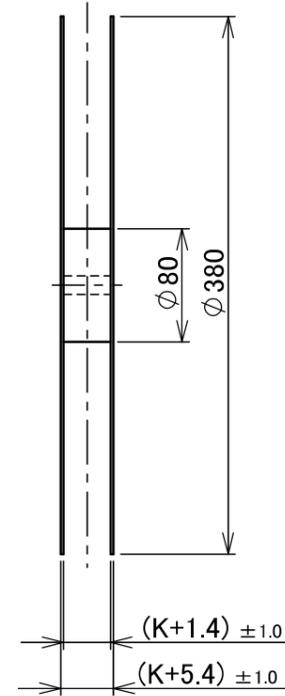
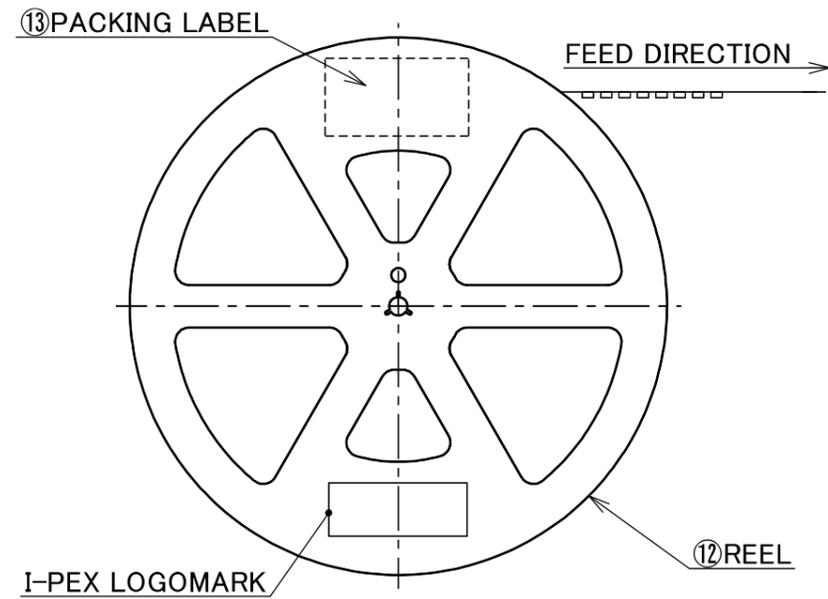


REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

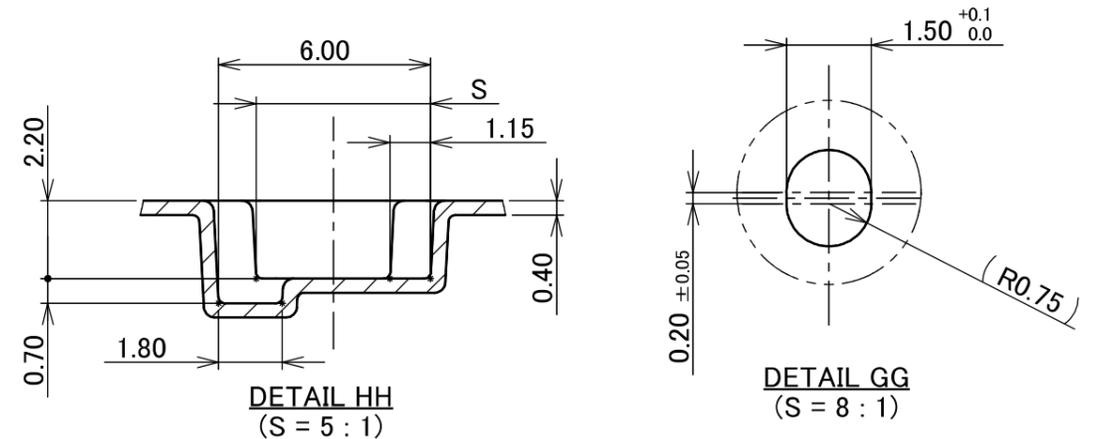
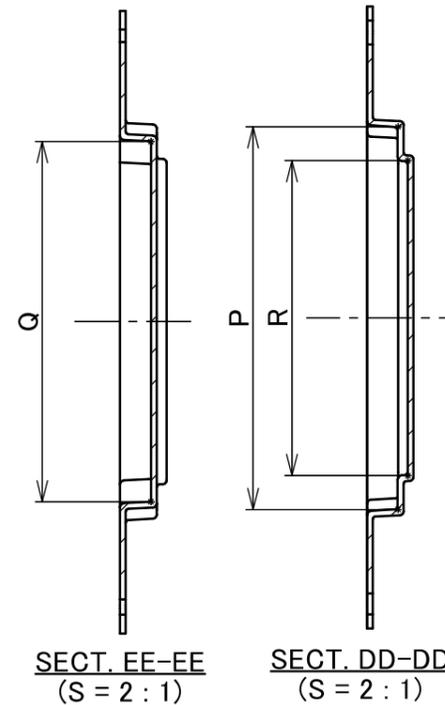
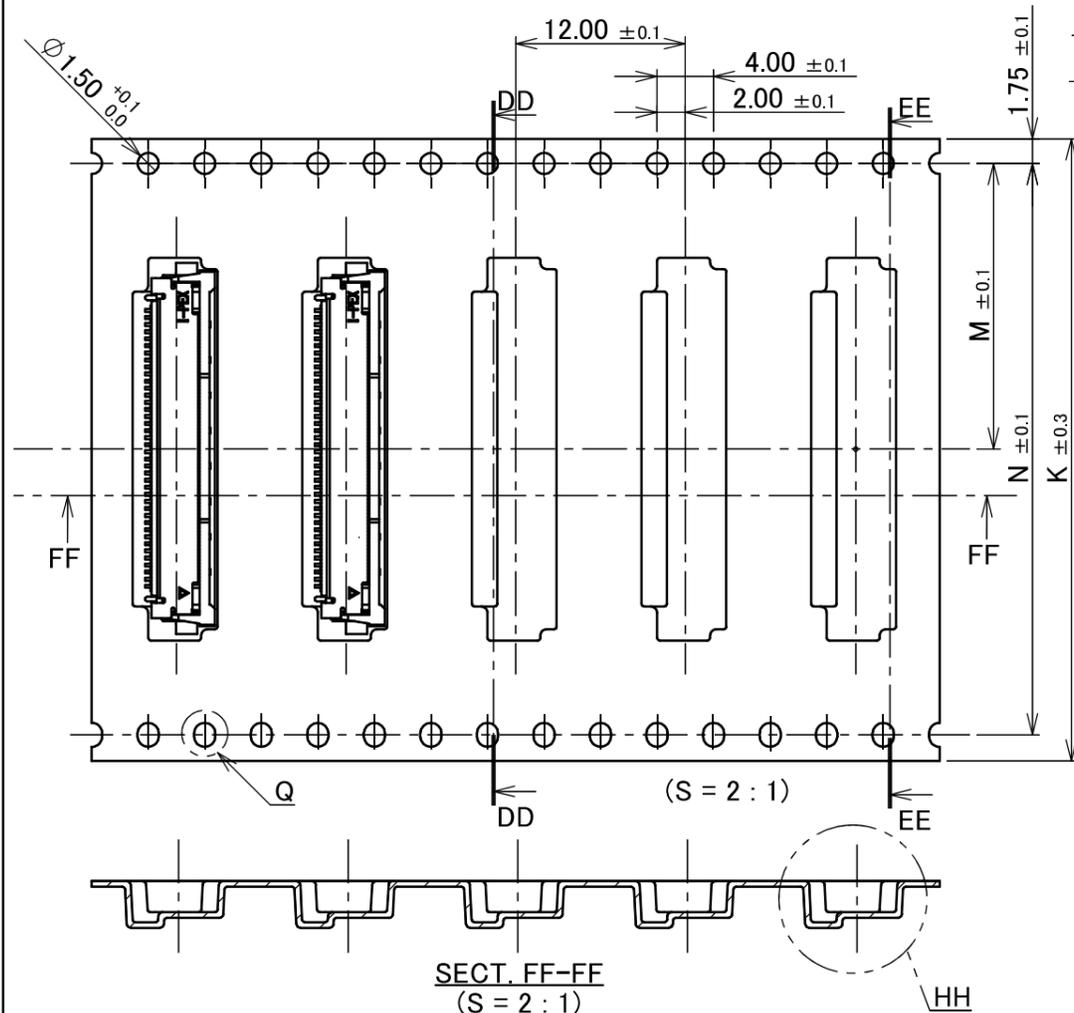
NOTE
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE EVAFLEX® 5-VS TYPE CH	SCALE 5:1	UNIT I-PEX		
DWG.	DATE							
CHK.	DATE							
APP.	DATE							
DWG. No.	20720			SIZE A3	SHEET 4/5	REV. 10		

PART NO.	K	L	M	N	P	Q	R	S	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20720-010E-02	24.00	17.30	11.50	-	12.05	10.42	7.35	4.74	2300 PIECES / REEL	5REELS / CARTON = 11500 PIECES / CARTON
20720-015E-02		19.30			14.55	12.92	9.85			
20720-020E-02		20.30			17.05	15.47	12.25			
20720-024E-02	32.00	25.50	14.20	28.40	19.05	17.47	14.25	4.94	4REELS / CARTON = 9200 PIECES / CARTON	4REELS / CARTON = 9200 PIECES / CARTON
20720-030E-02					22.05	20.47	17.25			
20720-040E-02	44.00	32.30	20.20	40.40	27.05	25.47	22.25		3REELS / CARTON = 6900 PIECES / CARTON	3REELS / CARTON = 6900 PIECES / CARTON



- 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.	DISCRPTION	MATERIAL	FINISH , REMARKS
13	PACKING LABEL	-	-
12	REEL	PS	BLACK
11	TOP TAPE	TRANSPARENCY	ANTI-STATIC TYPE
10	EMBOSS TAPE	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		R1	
GENERAL TOLERANCE.				TITLE	EVAFLEX® 5-VS TYPE CH	SCALE
DWG.	DATE					1:X
CHK.						UNIT
APP.						mm
				DWG. No.	20720	SIZE
						A3
						SHEET
						5/5
						REV.
						10