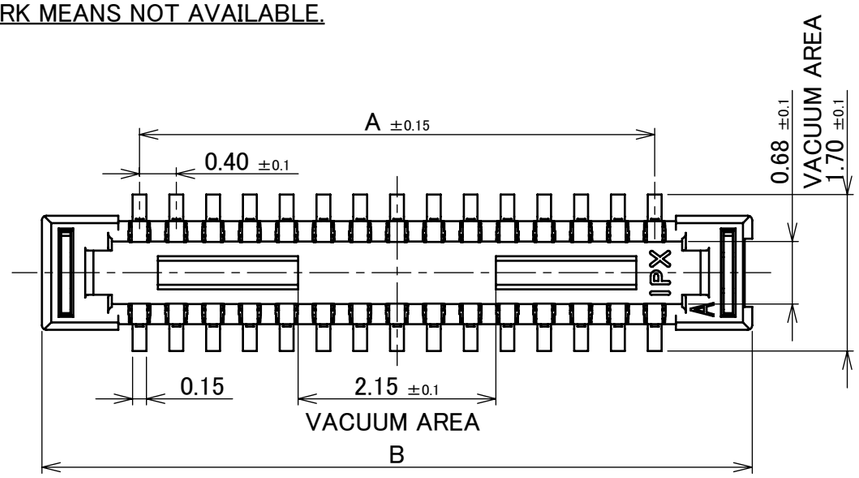
Recommended P/N	20641-0**E

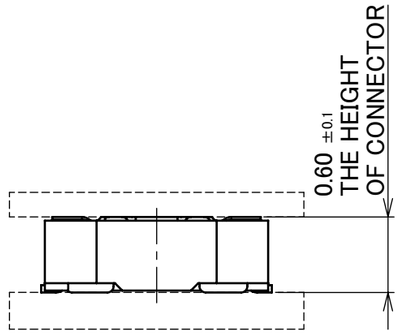
	PART No.	Pos.	A	B	C	D	E
	20641-006E	6	0.80	2.92	2.40	2.47	3.38
	20641-010E	10	1.60	3.72	3.20	3.27	4.18
◆	20641-014E	14	2.40	4.52	4.00	4.07	4.98
◆	20641-016E	16	2.80	4.92	4.40	4.47	5.38
◆	20641-020E	20	3.60	5.72	5.20	5.27	6.18
	20641-024E	24	4.40	6.52	6.00	6.07	6.98
	20641-030E	30	5.60	7.72	7.20	7.27	8.18
	20641-034E	34	6.40	8.52	8.00	8.07	8.98
	20641-040E	40	7.60	9.72	9.20	9.27	10.18
◆	20641-080E	80	15.60	17.72	17.20	17.27	18.18

◆ MARK MEANS NOT AVAILABLE.

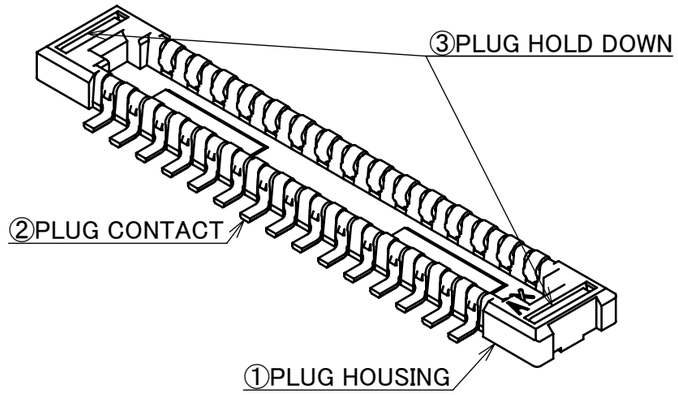
HF
Halogen Free

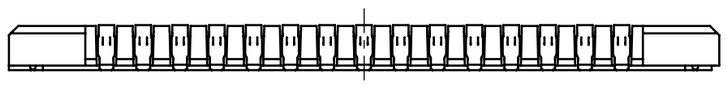
RoHS COMPLIANT
RoHS Compliant

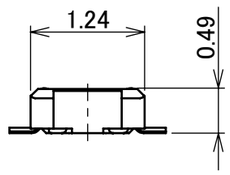


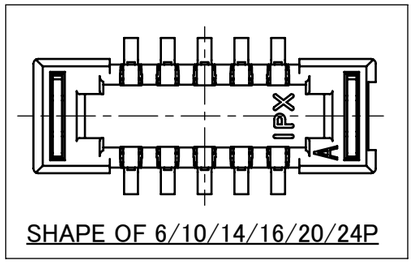


MATING CONDITION
(S=20 : 1)

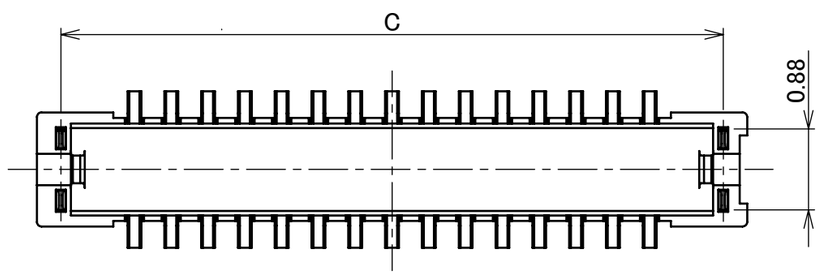








SHAPE OF 6/10/14/16/20/24P



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	HOLD DOWN	BRASS	ALL OVER Ni 1.27 μm MIN. SOLDERING PART Au 0.02 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.27 μm MIN. CONTACT PART Au 0.02 μm MIN. SOLDERING PART Au 0.02 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK

REV.	ECN	BY	DATE	APP.
11	Z220190	Y.I	2022/03/04	Y.H
10	Z180698	R.H	2018/05/31	TAK
9	Z170933	R.H	2017/08/17	M.T
8	Z170592	R.H	2017/05/17	M.T
7	Z151200	M.T	2015/10/29	K.N
6	Z150935	M.T	2015/08/24	Tom

REVISION RECORD

ANGLE	±2°	6 OVER 30 MAX.	±0.3
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5

GENERAL TOLERANCE.

DWG.	M.Takemoto
DATE	2014/10/21
CHK.	K.Narita
APP.	T.Takano
PROJECTION	
SERIES No.	R5
TITLE	NOVASTACK® 4 PLUG ASSEMBLY
DWG. No.	20641
SCALE	15:1
UNIT	mm
SIZE	A3
SHEET	1/6
REV.	11

CUSTOMER COPY

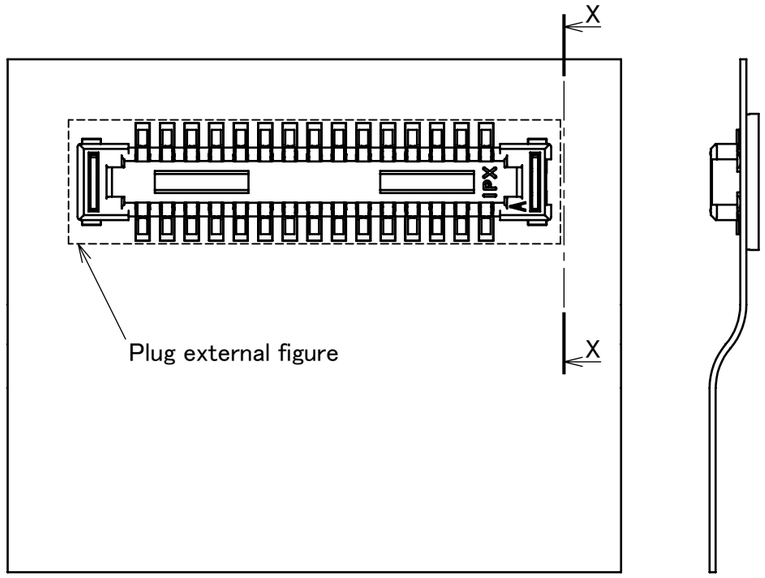
I-PEX

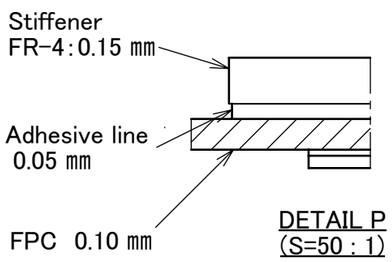
Cautions for Handling the Component

1.Using for PCB to FPC connection.

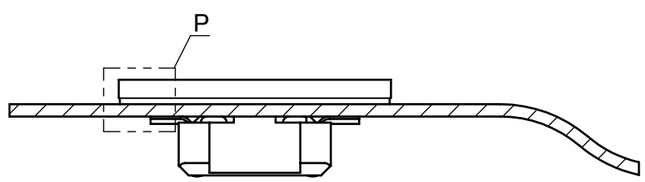
Usage of a FPC stiffener is recommended to prevent plug from damages during insertion and extraction of a FPC.

Recommended stiffener size :
Larger than plug external figure including footprint patterns.(See below)
Recommended FPC and stiffener thickness:
Minimum 0.3 mm
[Thickness example: 0.1 mm FPC + 0.05 mm adhesive bond
+ 0.15 mm Stiffener (FR-4) = total 0.3 mm]





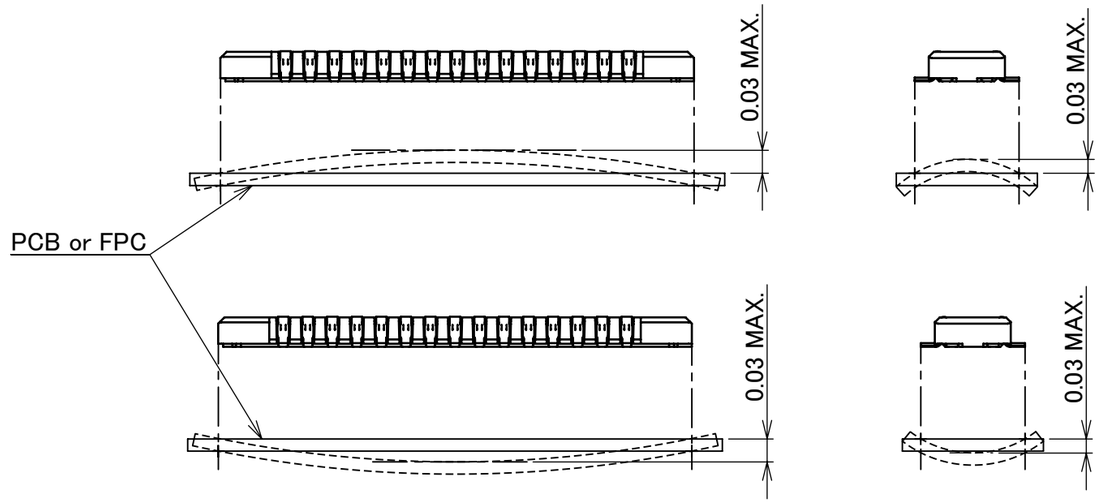
DETAIL P
(S=50 : 1)



SECT. X-X
(S=20 : 1)

2.Warp of PCB or FPC

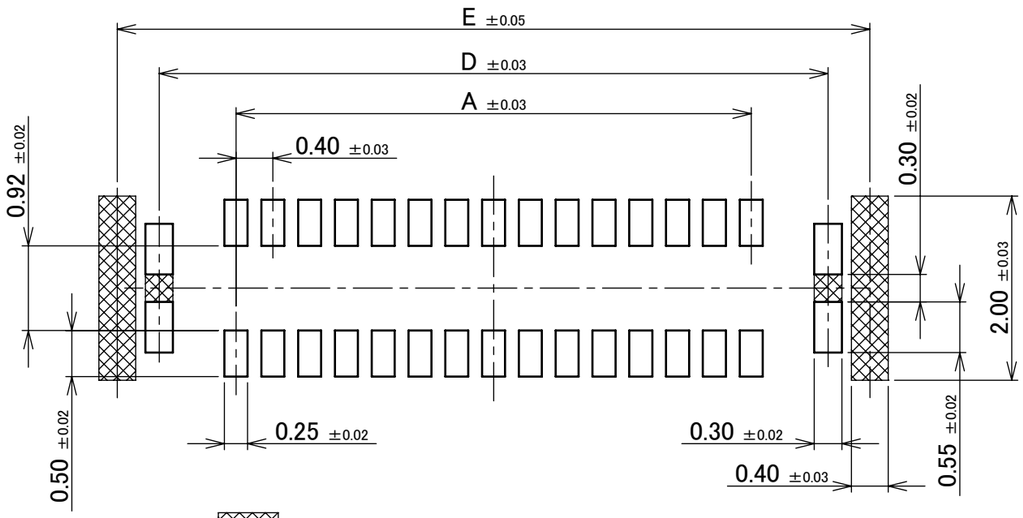
PCB /FPC warping is maximum 0.03 mm, with both ends of the plug.



ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R5		
GENERAL TOLERANCE.				TITLE		SCALE	
DWG.		DATE		NOVASTACK® 4 PLUG ASSEMBLY		15:1	I-PEX
CHK.						UNIT mm	
APP.				DWG. No. 20641		SIZE A3	SHEET 2/6 REV. 11

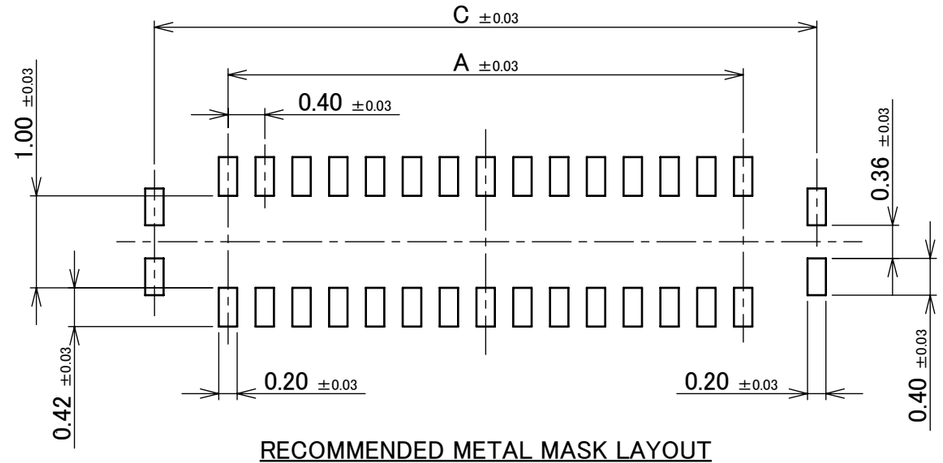
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20642-0**1E
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233～358K(-40℃～+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : ⊿20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,500Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	6P : 10.0N MAX. 30P : 36.0N MAX. 10P : 12.0N MAX. 34P : 40.8N MAX. 24P : 28.8N MAX. 40P : 48.0N MAX.
UNMATING FORCE (AFTER TEST)	6P : 1.2N MIN. 30P : 6.0N MIN. 10P : 2.0N MIN. 34P : 6.8N MIN. 24P : 4.8N MIN. 40P : 8.0N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-1998
TEST REPORT	TR-14088
PACKING STANDARD	PST-14060
INSTRUCTION MANUAL	HIM-14018
APPEARANCE CRITERIA No.	QLS-A***

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R5
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		CUSTOMER COPY
GENERAL TOLERANCE.				TITLE: NOVASTACK® 4 PLUG ASSEMBLY	SCALE: –
DWG. / DATE					UNIT: mm
CHK.					I-PEX
APP.				DWG. No. 20641	SIZE: A3 / SHEET: 3/6 / REV.: 11

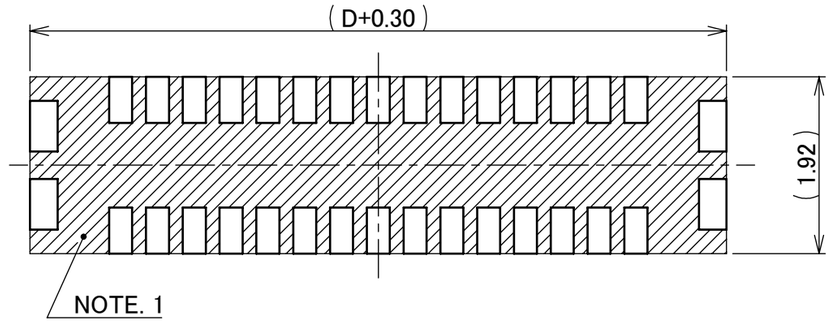


: PATTERN PROHIBITED AREA

RECOMMENDED PATTERN LAYOUT



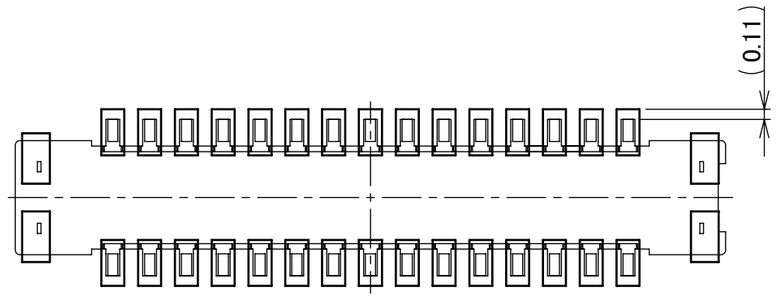
RECOMMENDED METAL MASK LAYOUT
THICKNESS: 0.12 mm



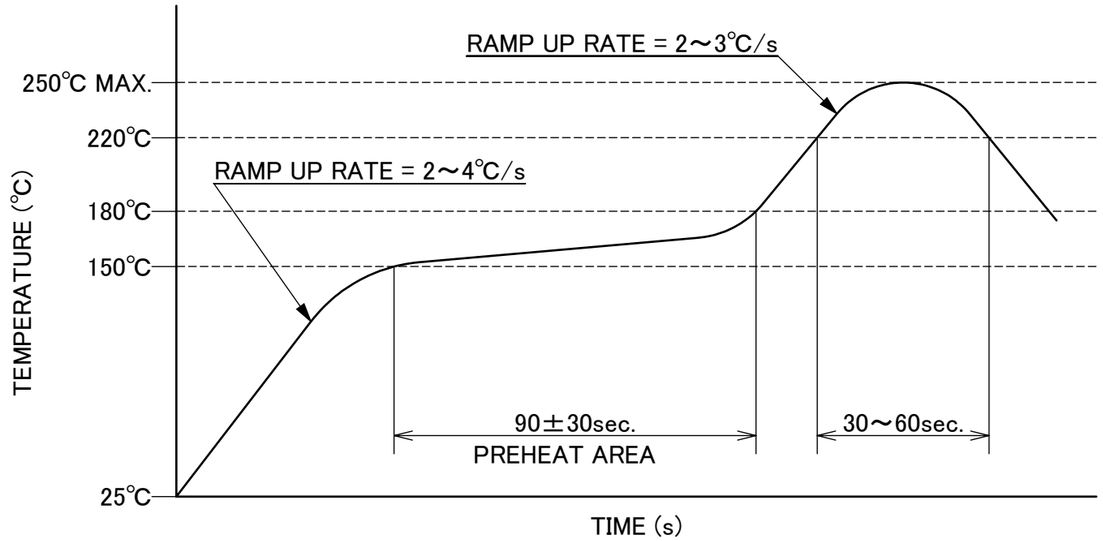
NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R5	
GENERAL TOLERANCE.				TITLE		SCALE
DWG.		DATE		NOVASTACK® 4 PLUG ASSEMBLY		15:1
CHK.						UNIT mm
APP.				DWG. No. 20641		SIZE A3 / SHEET 4/6 / REV. 11

I-PEX



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN

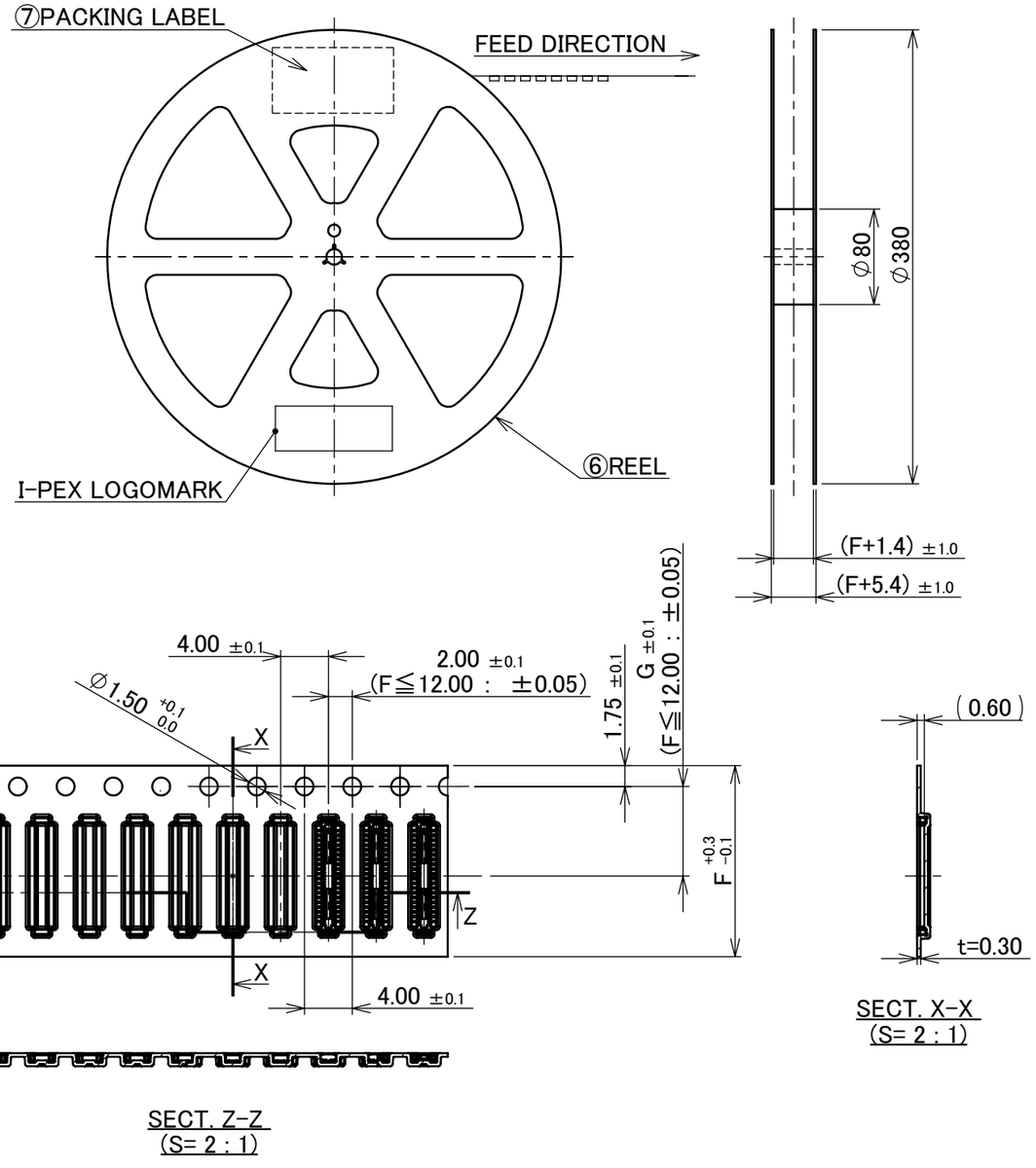


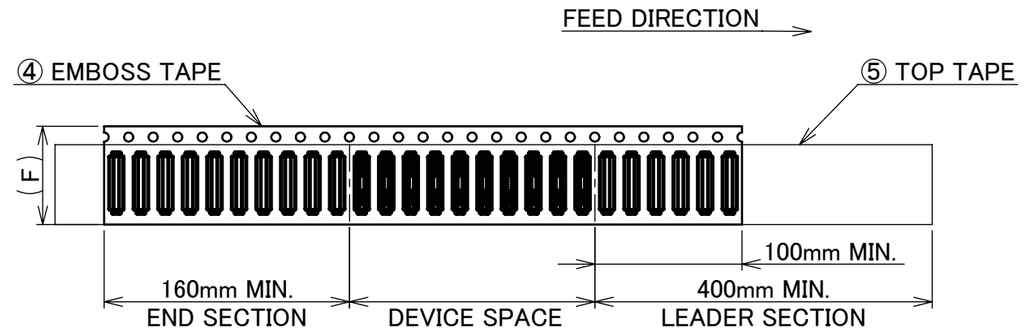
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

ANGLE ±2°	6 OVER 30 MAX. ±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
6 MAX. ±0.2	30 OVER 120 MAX. ±0.5		R5		
GENERAL TOLERANCE.		TITLE		SCALE	
DWG. DATE		NOVASTACK® 4 PLUG ASSEMBLY		15:1	I-PEX
CHK.				UNIT mm	
APP.		DWG. No. 20641		SIZE A3	SHEET 5/6 REV. 11

	PART No.	Pos.	F	G	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
	20641-006E	6	12.00	5.50	10,000 / REEL	10,000 × 7 REELS = 70,000
	20641-010E	10	16.00	7.50		
◆	20641-014E	14				
◆	20641-016E	16				
◆	20641-020E	20				
	20641-024E	24				
	20641-030E	30				
	20641-034E	34				
	20641-040E	40				10,000 × 5 REELS = 50,000
◆	20641-080E	80	24.00	11.50		10,000 × 4 REELS = 40,000

◆ MARK MEANS NOT AVAILABLE.





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

NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
7	PACKING LABEL	-	-
6	REEL	PS	ANTI-STATIC TYPE BLACK
5	TOP TAPE	PET t=0.062 TRANSPARENCY	ANTI-STATIC TYPE
4	EMBOSS TAPE	PS TRANSPARENCY	ANTI-STATIC TYPE

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R5
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		

CUSTOMER COPY

GENERAL TOLERANCE.

DWG. DATE

CHK.

APP.

TITLE: NOVASTACK® 4 PLUG ASSEMBLY

DWG. No. 20641

SCALE 1:X | UNIT mm | SIZE A3 | SHEET 6/6 | REV. 11

I-PEX