

Recommended P/N 20698-0**E-01

PART No.	SIGNAL POS.	POWER POS.	A	B	C	D
20698-016E-01	16P	4P	6.85	4.44	3.50	2.45
20698-028E-01	28P	4P	8.95	6.54	5.60	4.55
20698-034E-01	34P	4P	10.00	7.59	6.65	5.60
20698-042E-01	42P	4P	11.40	8.99	8.05	7.00
20698-056E-01	56P	4P	13.85	11.44	10.50	9.45
20698-062E-01	62P	4P	14.90	12.49	11.55	10.50

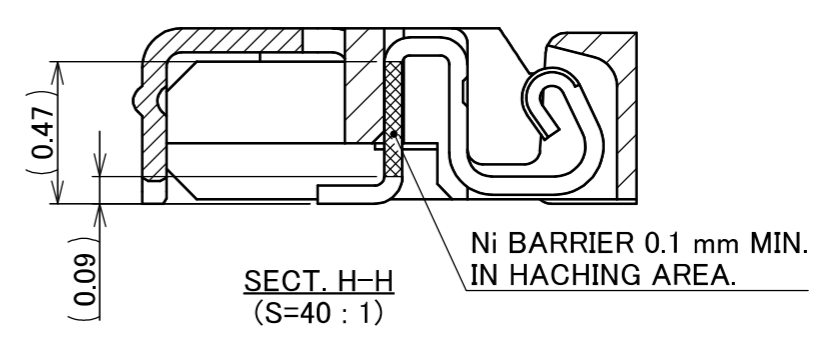
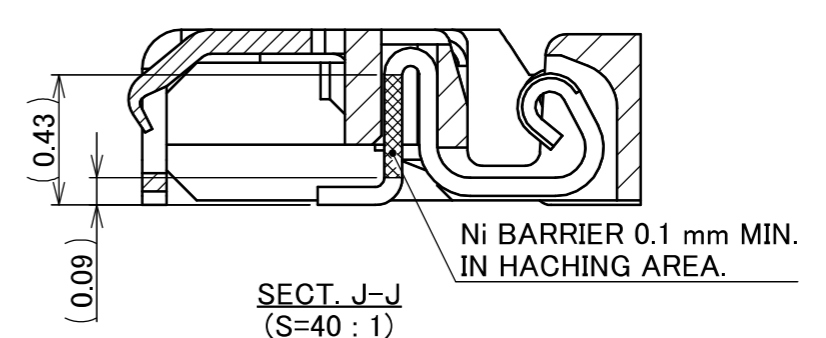
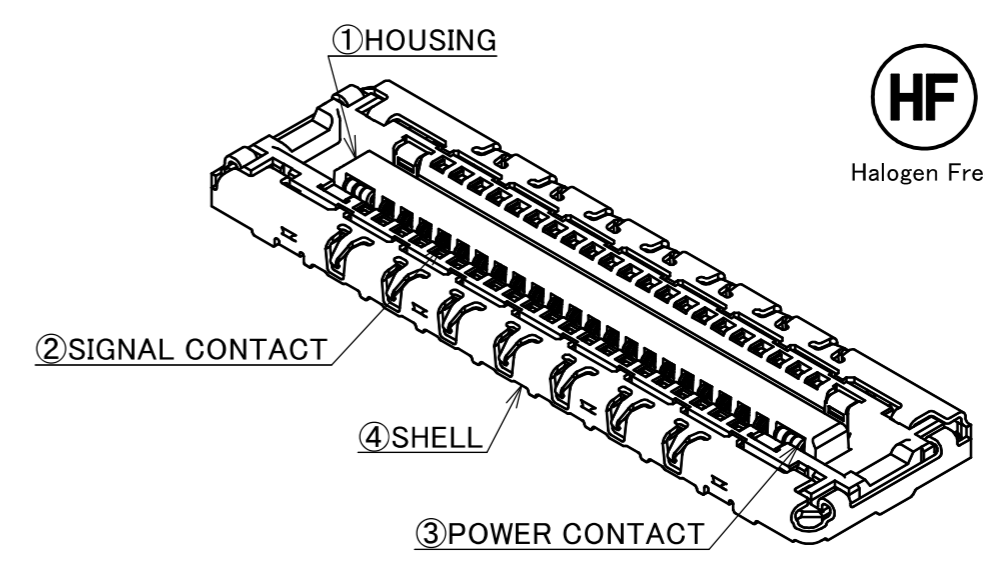
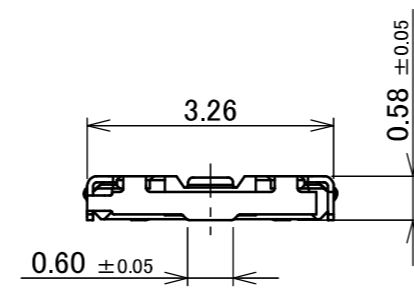
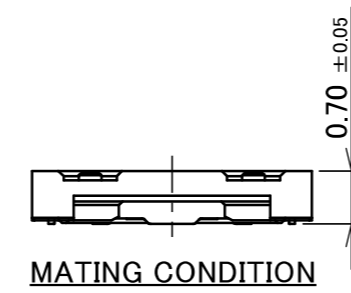
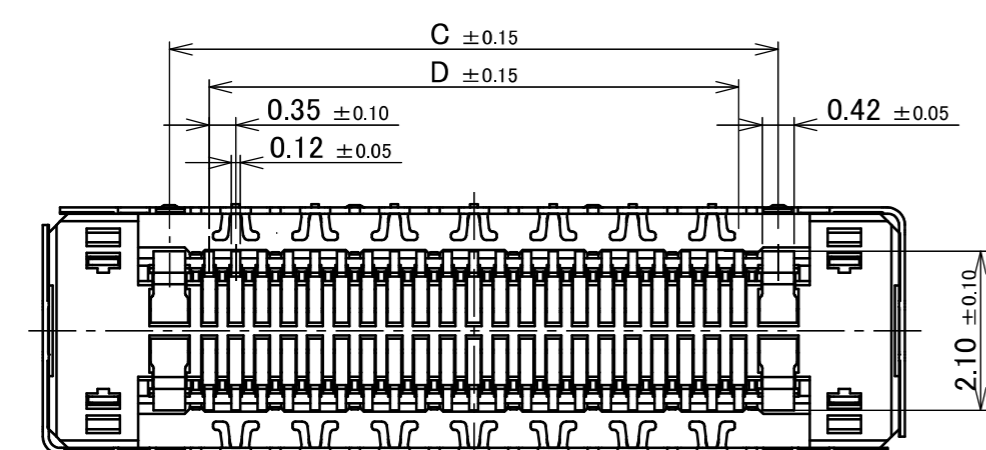
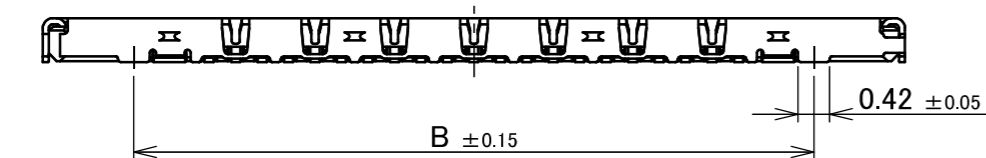
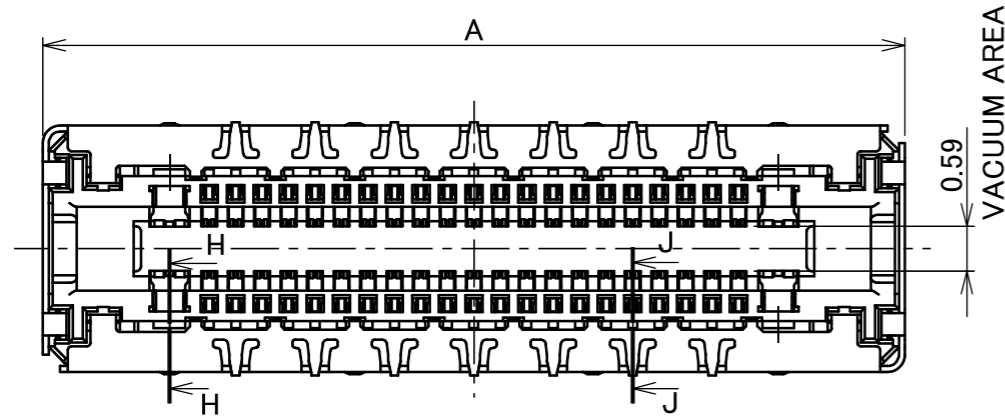
20698-0**E-01
Pos.



Halogen Free



RoHS Compliant



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.27 μ m MIN. Au 0.01 μ m MIN.
3	POWER CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.05 μ m MIN. SOLDERING PART Au 0.02 μ m MIN.
2	SIGNAL CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.02 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

REV.	ECN	BY	DATE	APP.	APP.	DATE	APP.	PROJECTION	SERIES No.	TITLE	SCALE	SHEET	REV.
13	Z250489	T.M	2025/03/26	S.S	ANGLE	±2°	6 OVER 30 MAX.	±0.3		R2	10:1	A3	13
12	Z241223	Y.F	2024/09/09	S.S	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
11	Z240715	Y.F	2024/06/07	S.S	GENERAL TOLERANCE.				NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY	mm	1/9	13	
10	Z230294	K.W	2023/03/22	M.T	DWG.	T.Kurachi	DATE						2016/01/13
9	Z220191	Y.I	2022/03/04	Y.H	CHK.								
8	Z211370	M.H	2021/11/09	Y.H									
REV.	ECN	BY	DATE	APP.	APP.	DATE	APP.	DWG. No.	20698				

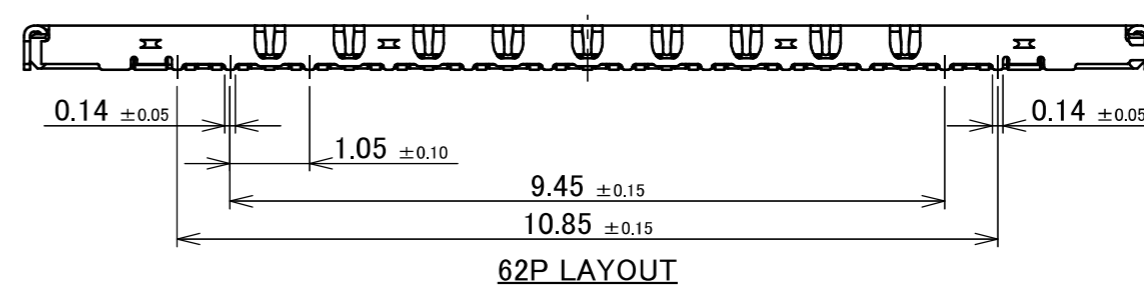
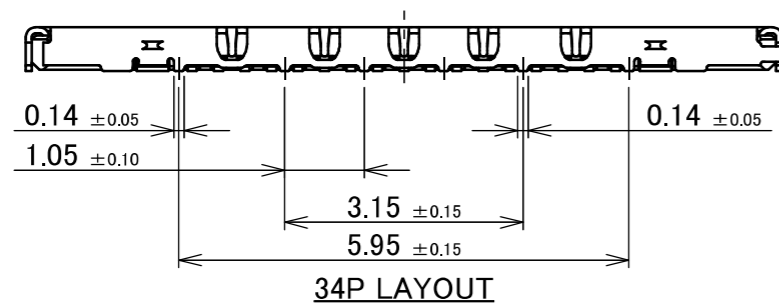
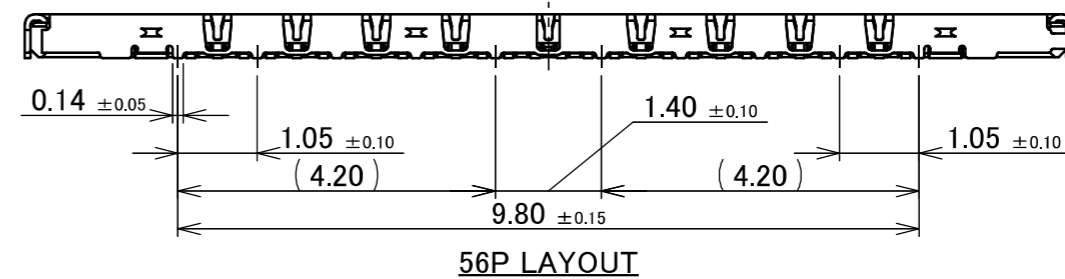
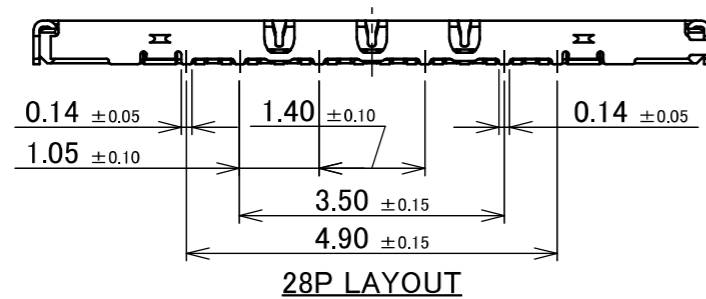
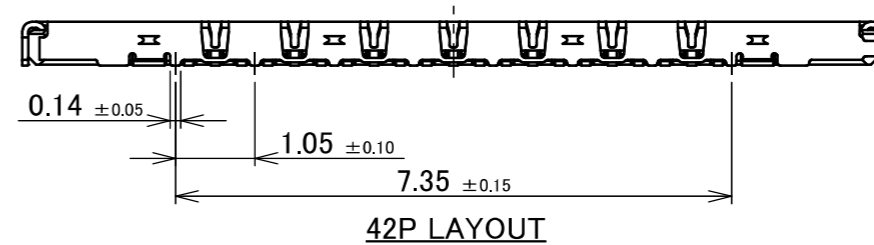
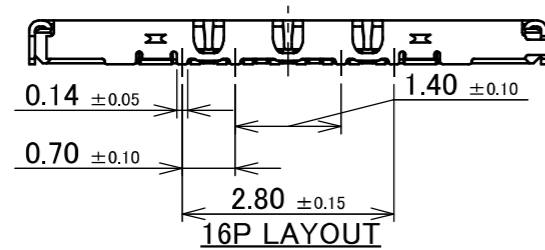
Confidential C

I-PEX Inc.

QKE-DFE06-02 REV.12

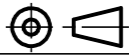

PART No.	SIGNAL POS.	POWER POS.
20698-016E-01	16P	4P
20698-028E-01	28P	4P
20698-034E-01	34P	4P
20698-042E-01	42P	4P
20698-056E-01	56P	4P
20698-062E-01	62P	4P

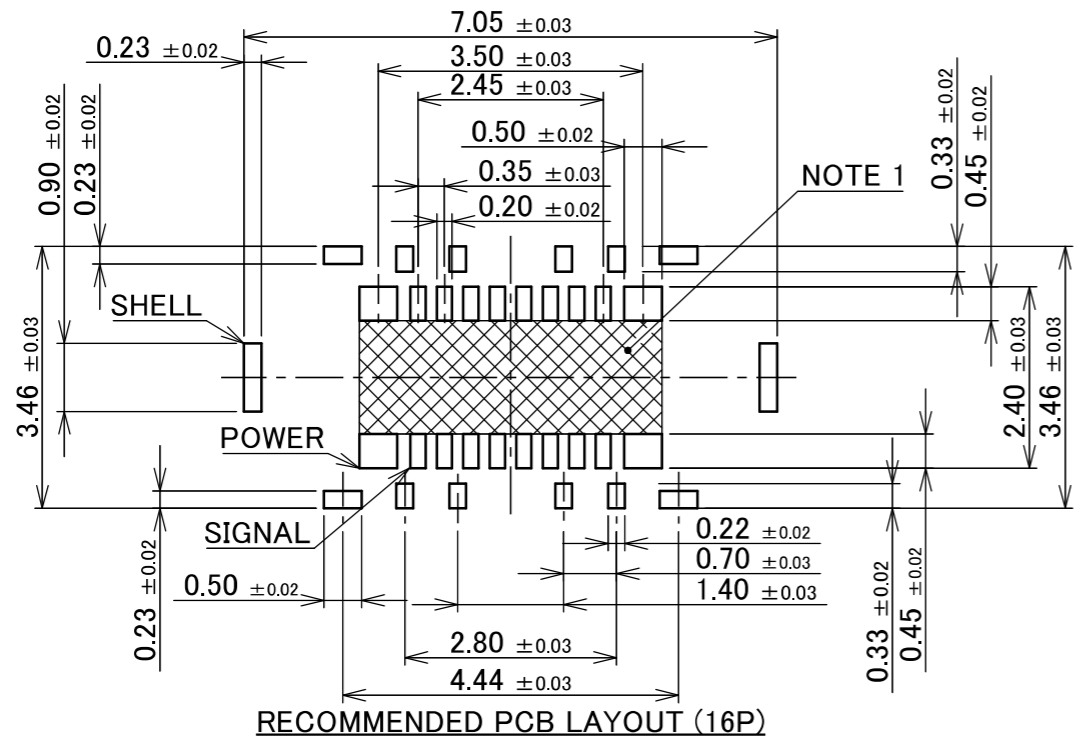
20698-0**E-01
Pos.



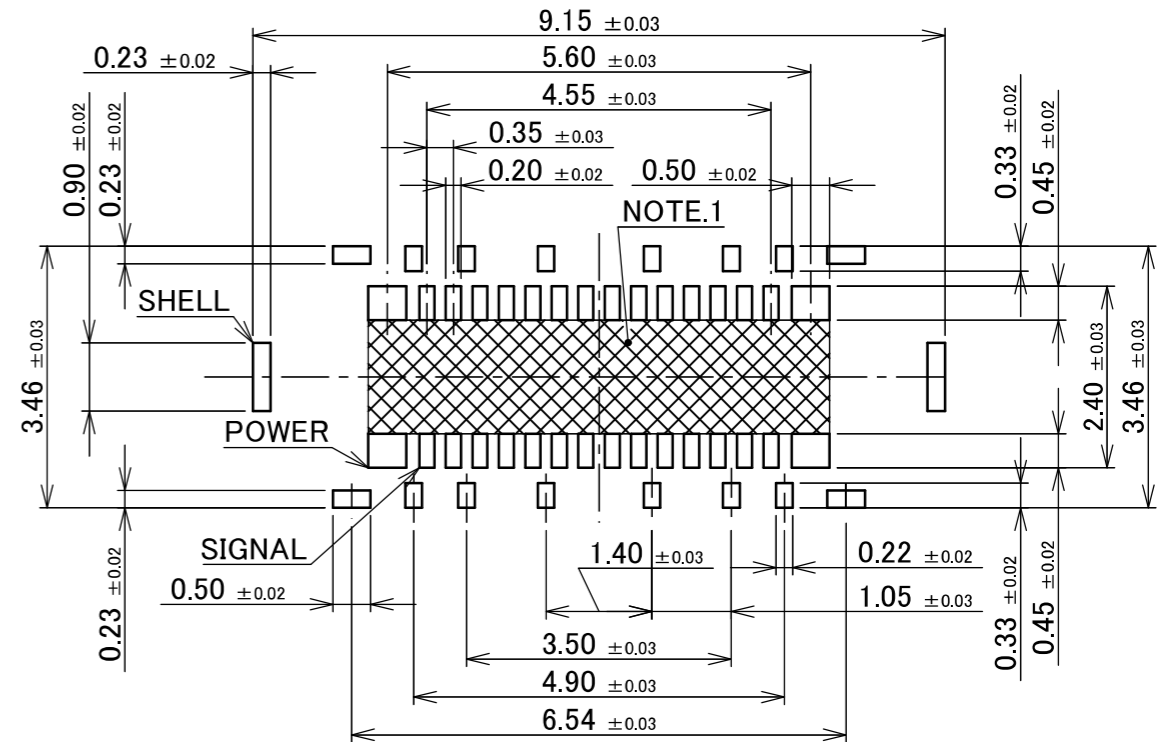
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R2	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY	SCALE 10:1	UNIT mm I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20698	SIZE A3	SHEET 2/9	REV. 13

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20697-0**E-01-*
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	2.2A AC/DC (PER CONTACT PIN)/ 8.8A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : \triangleleft 40mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 20mohm MAX. / AFTER TEST : \triangleleft 20mohm MAX.
CONTACT RESISTANCE (FOR GROUND)	INITIAL : 20mohm MAX. / AFTER TEST : \triangleleft 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	16P: 32.0N MAX. 28P: 32.0N MAX. 34P: 38.0N MAX. 42P: 46.0N MAX. 56P: 60.0N MAX. 62P: 66.0N MAX.
UNMATING FORCE (AFTER TEST)	16P: 3.2N MIN. 28P: 3.2N MIN. 34P: 3.8N MIN. 42P: 4.6N MIN. 56P: 6.0N MIN. 62P: 6.6N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-2187
TEST REPORT	TR-16014
PACKING STANDARD	PST-15084 (10K/REEL)
INSTRUCTION MANUAL	HIM-15020
APPEARANCE CRITERIA No.	QLS-A***

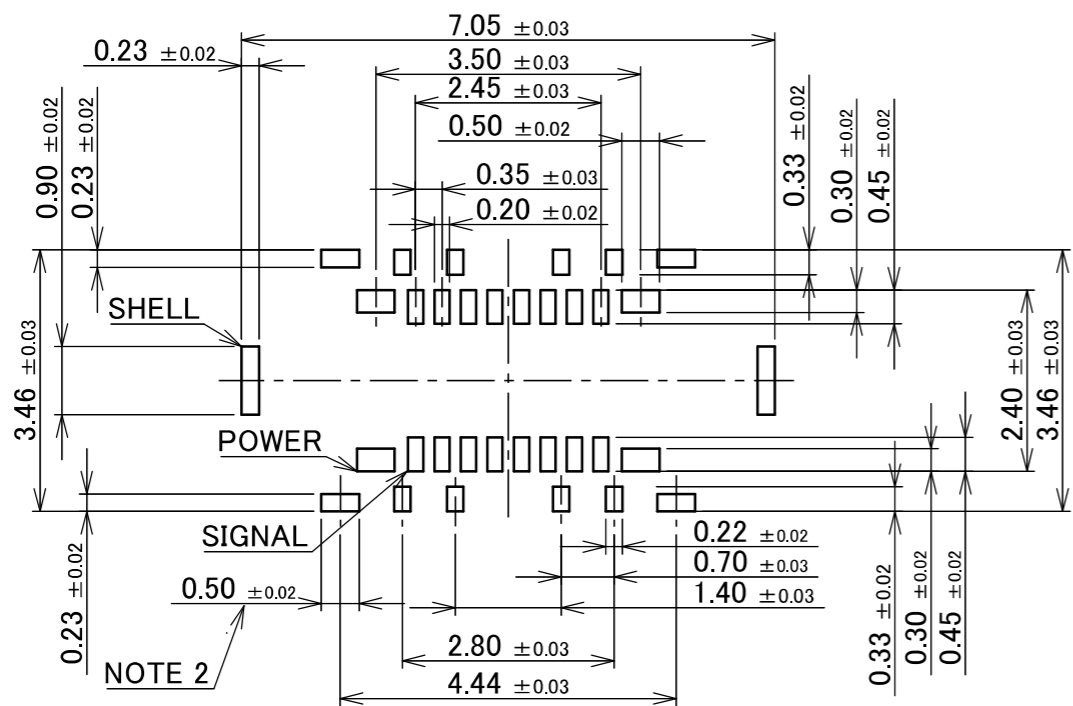
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R2	CUSTOMER COPY		
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY	SCALE			
DWG.	DATE							UNIT
CHK.								mm
APP.								SIZE SHEET REV.
				DWG. No.	20698	A3	3/9	13



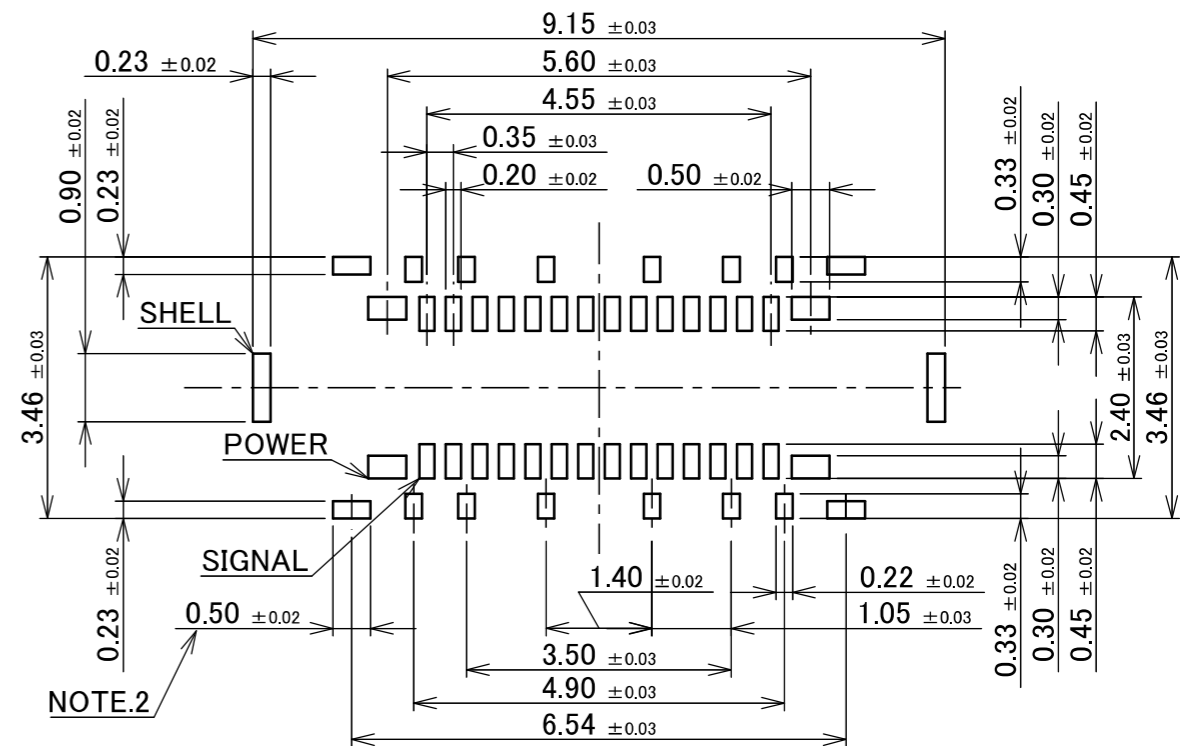
RECOMMENDED PCB LAYOUT (16P)



RECOMMENDED PATTERN LAYOUT (28P)



RECOMMENDED METAL MASK LAYOUT (16P)
THICKNESS : t=0.10mm

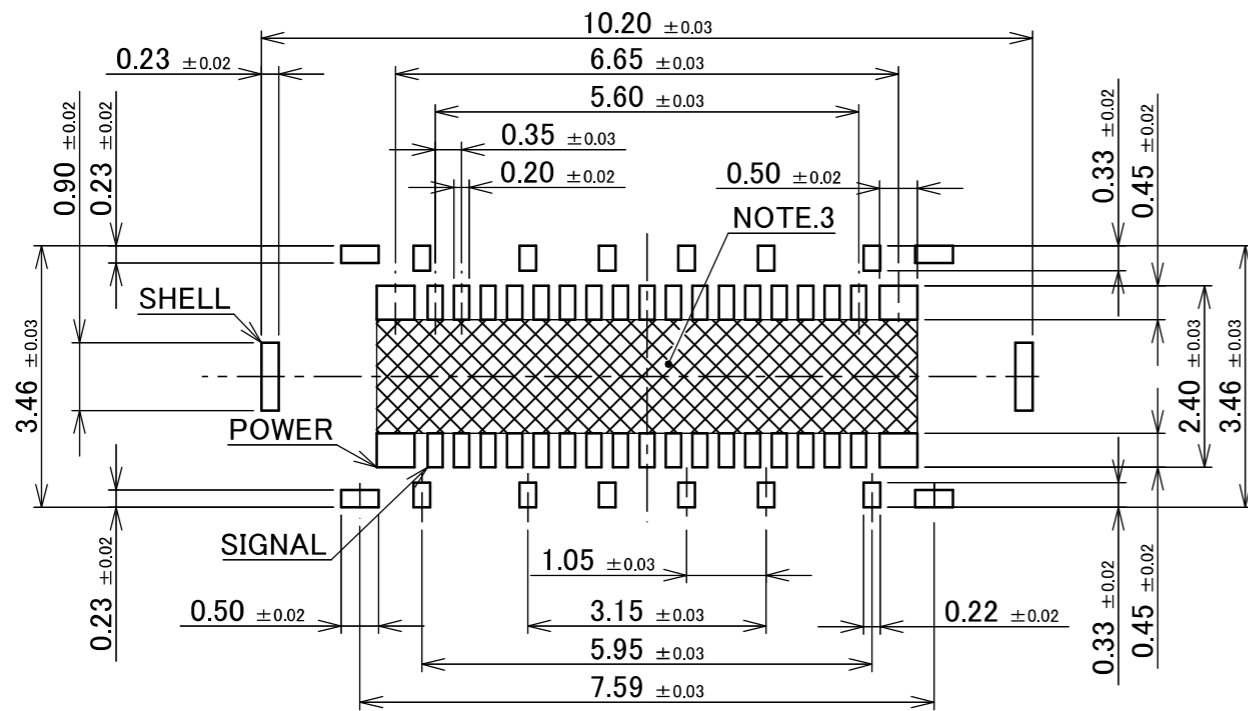


RECOMMENDED METAL MASK LAYOUT (28P)
THICKNESS : t=0.10mm

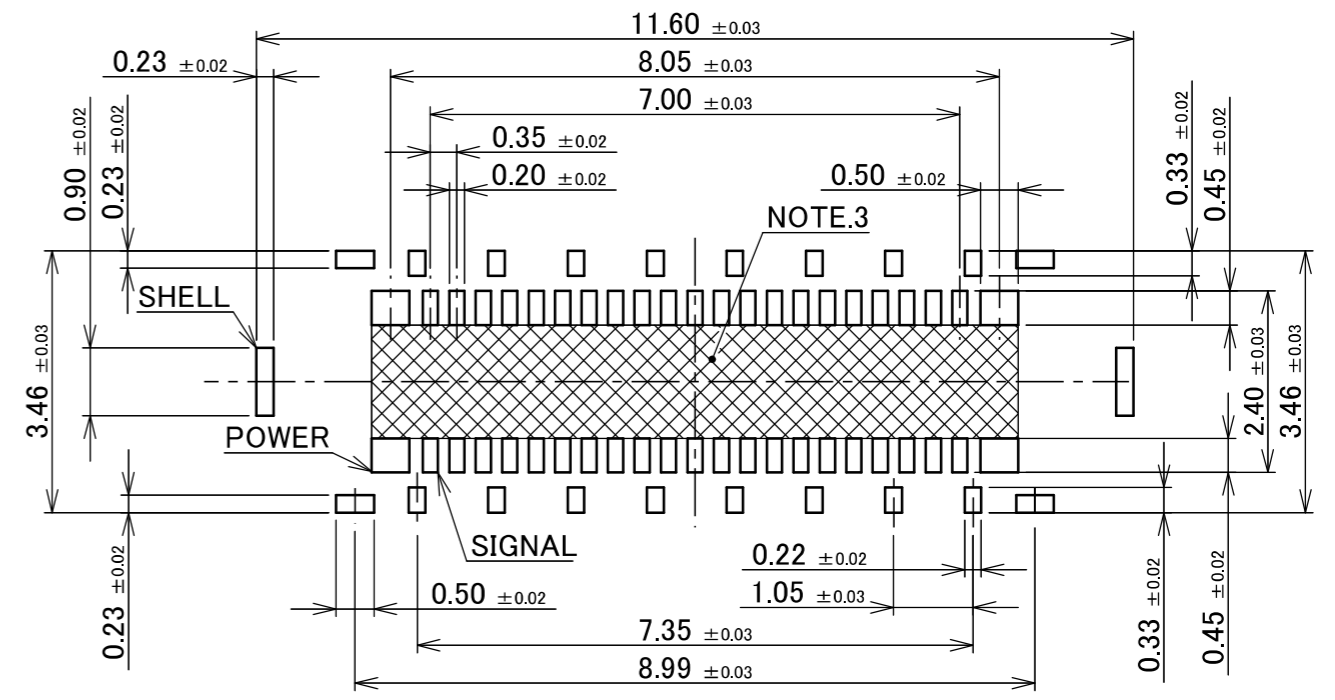
NOTES

1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
2. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

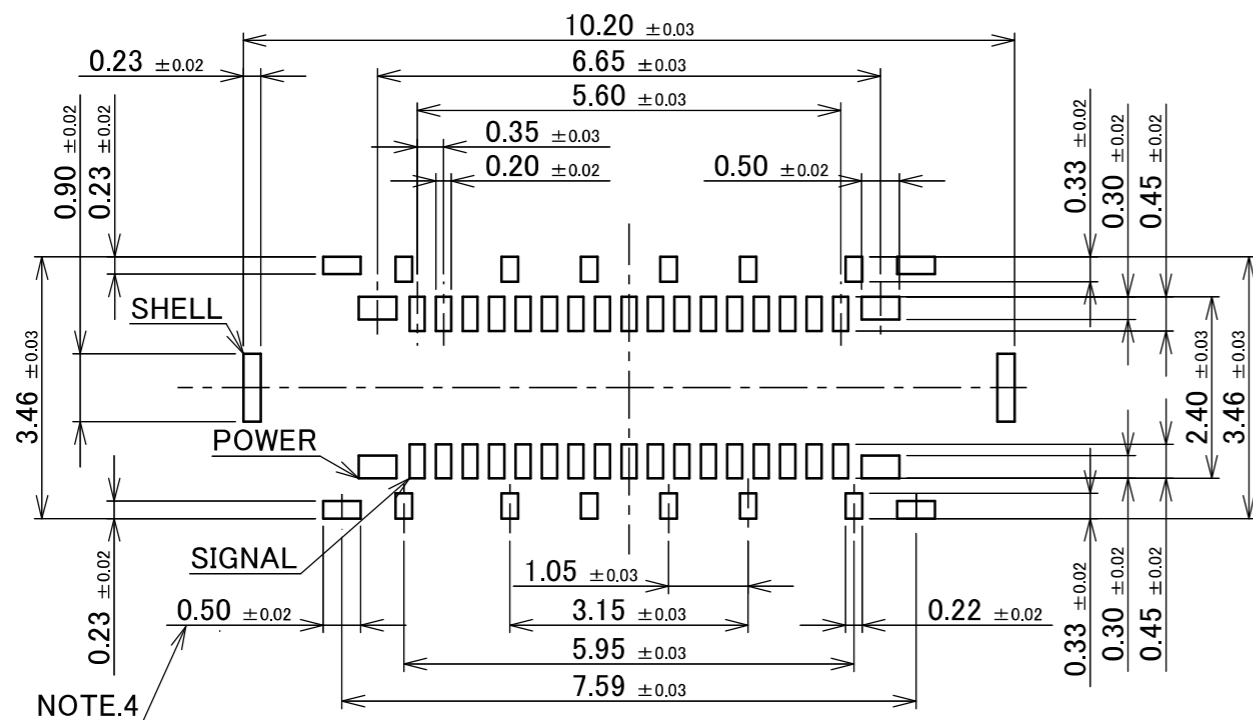
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R2	CUSTOMER COPY		
	6 MAX.	±0.2	30 OVER 120 MAX.					±0.5
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX	
DWG.	DATE			NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY		10:1		
CHK.						UNIT		
APP.				DWG. No. 20698		mm		
						SIZE	SHEET	REV.
						A3	4/9	13



RECOMMENDED PATTERN LAYOUT (34P)

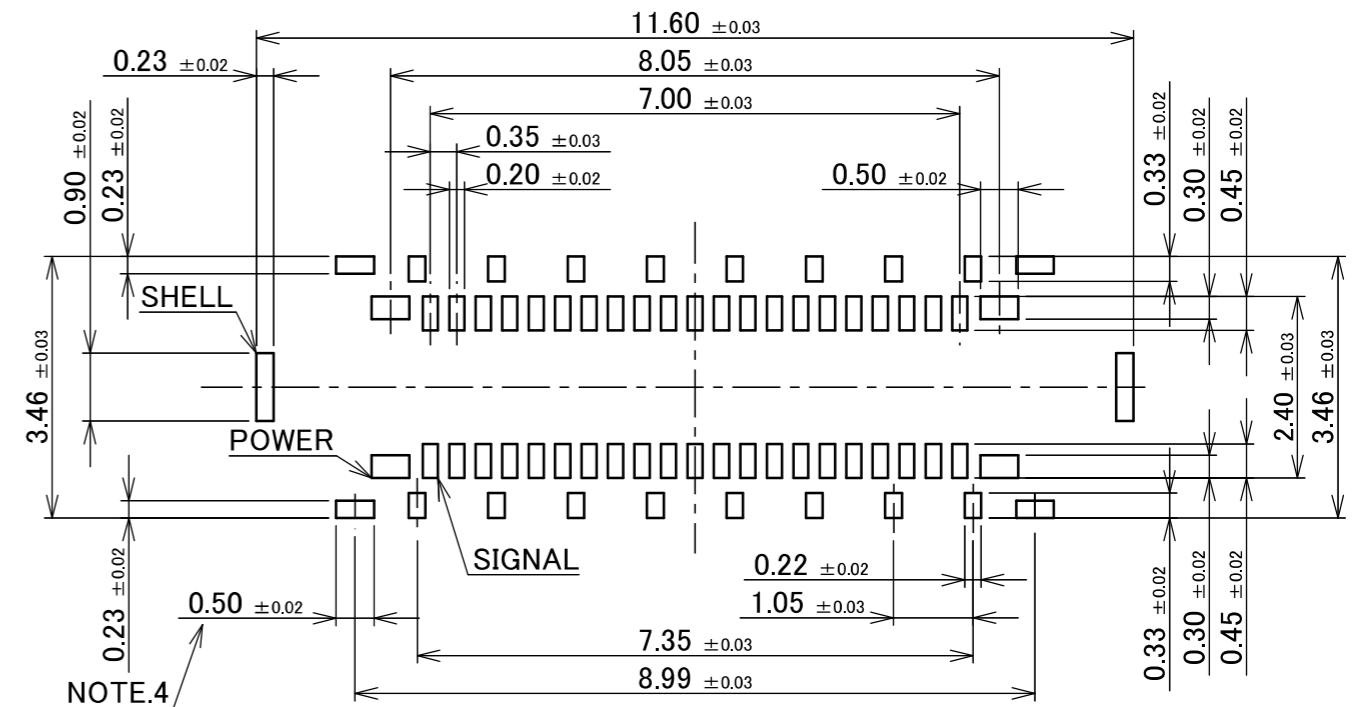


RECOMMENDED PATTERN LAYOUT (42P)



RECOMMENDED METAL MASK LAYOUT (34P)

THICKNESS : t=0.10mm



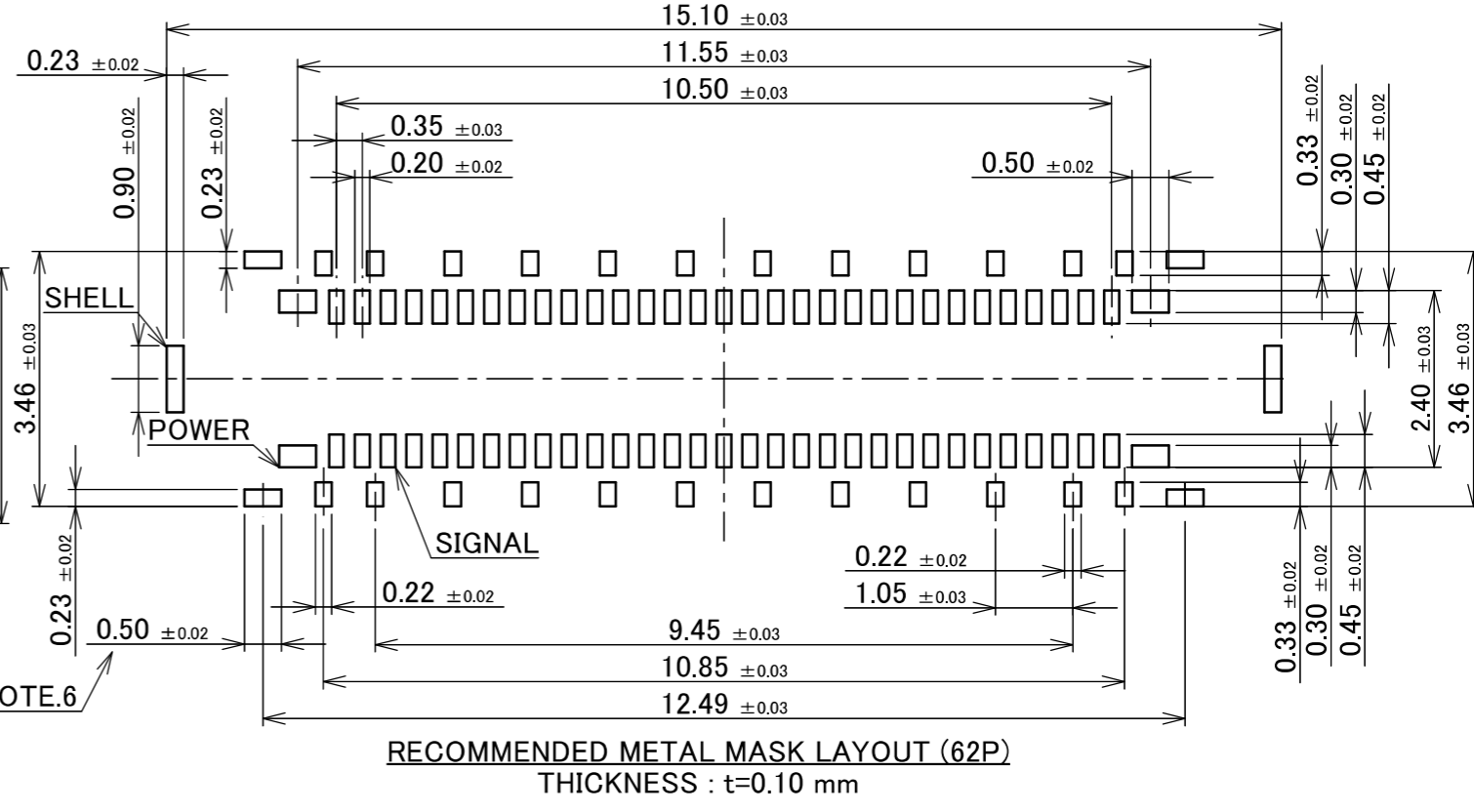
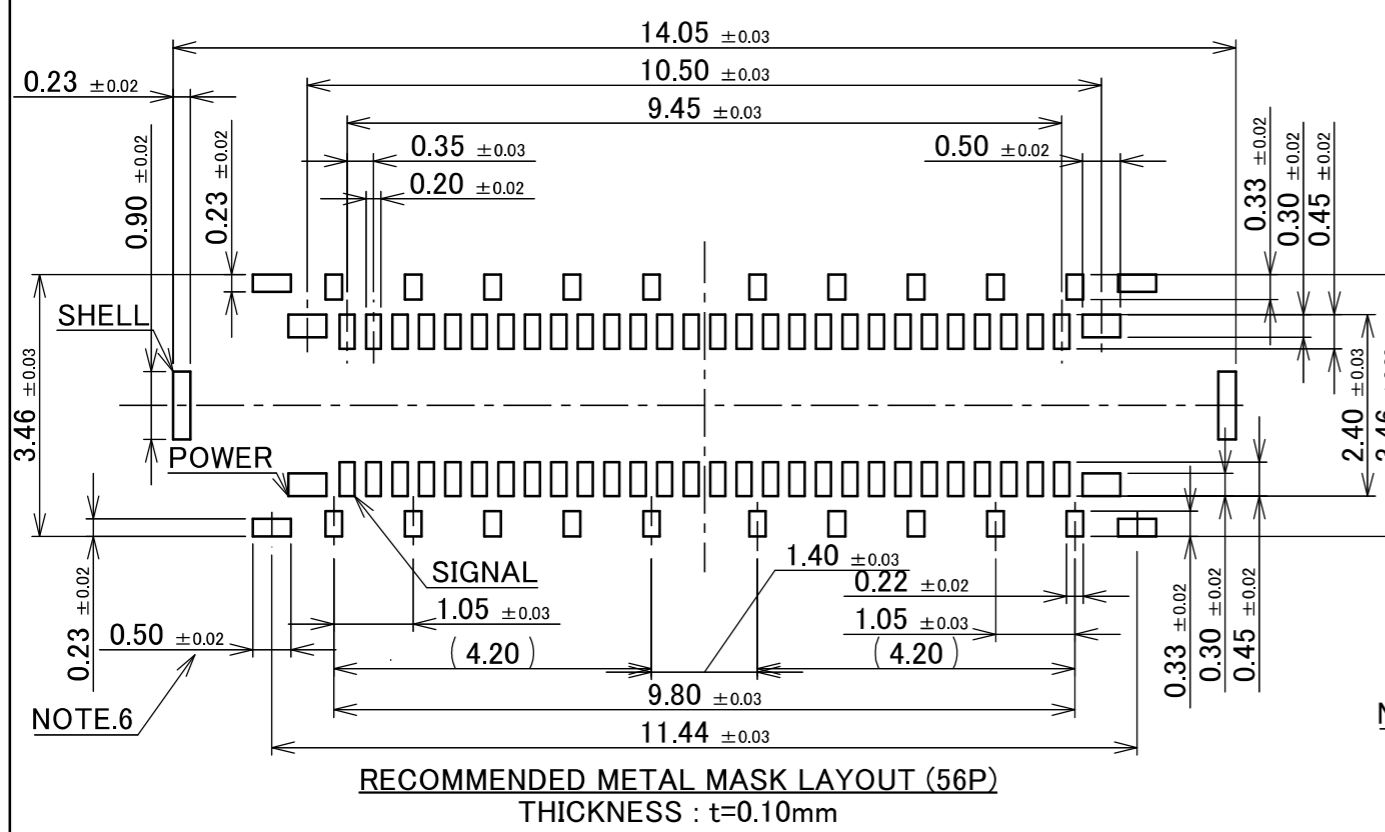
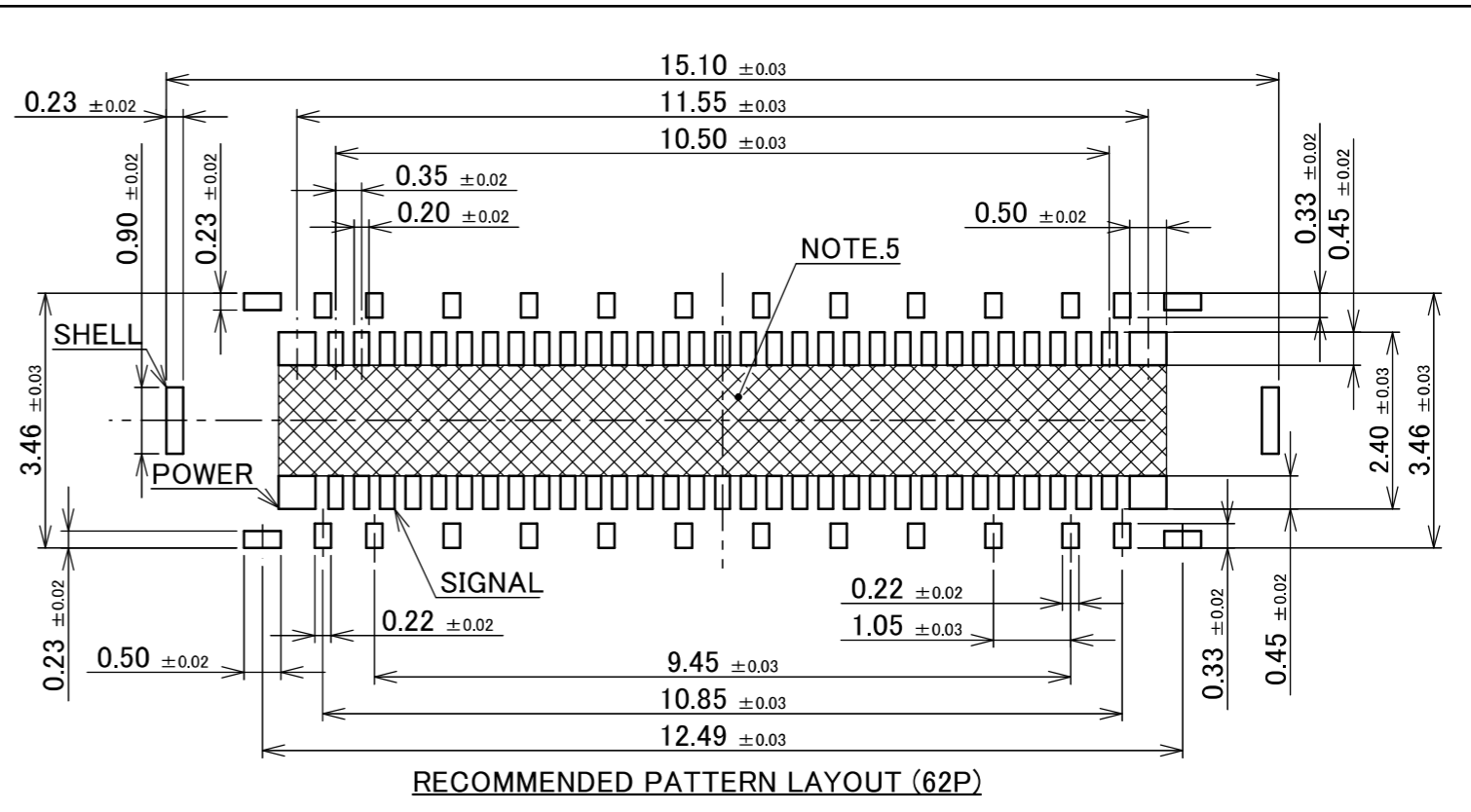
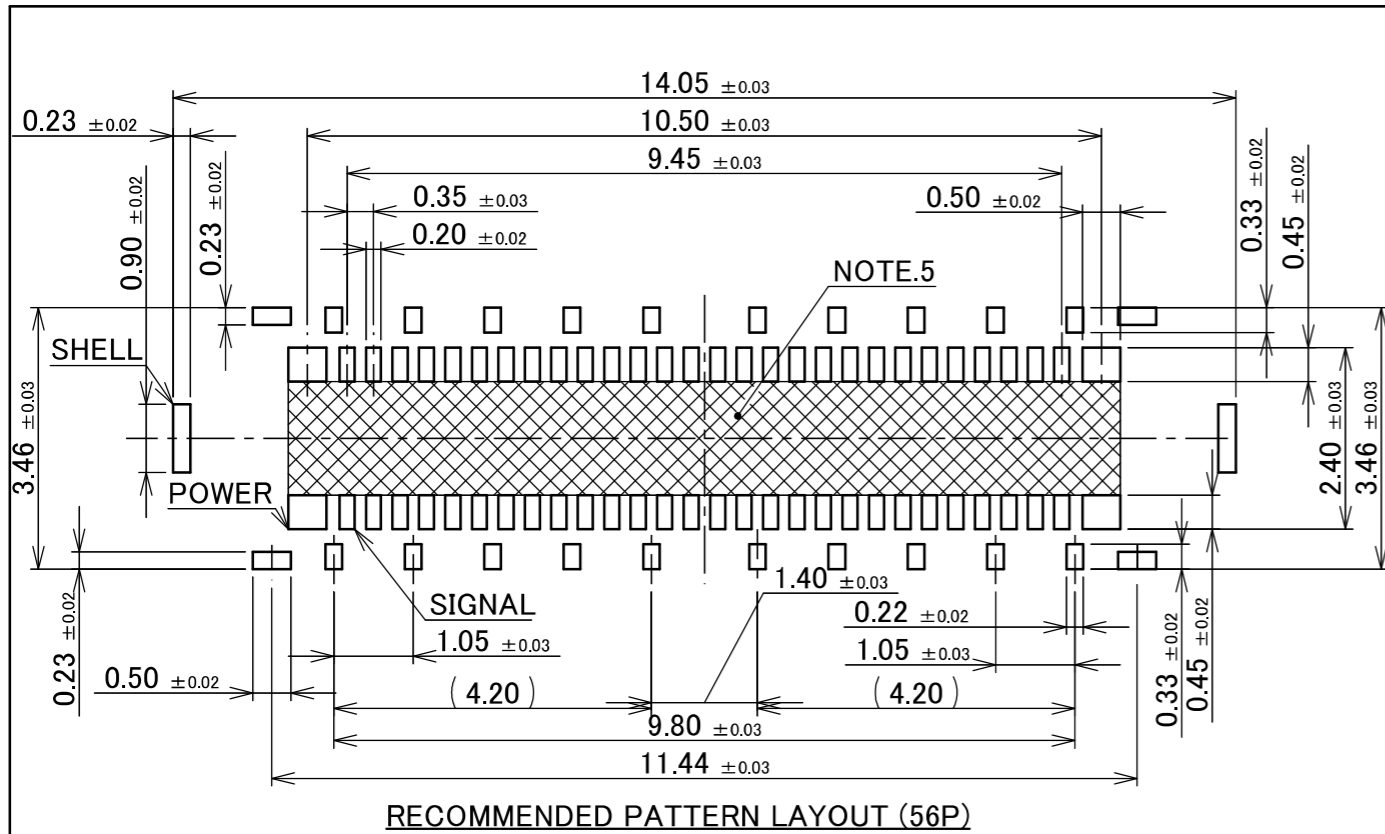
RECOMMENDED METAL MASK LAYOUT (42P)

THICKNESS : t=0.10mm

NOTES

- 3. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
- 4. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

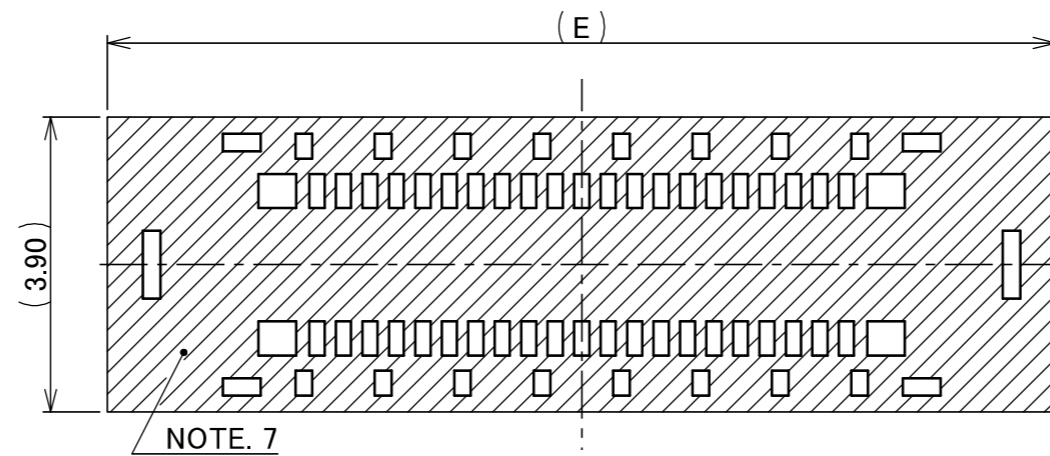
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R2	CUSTOMER COPY	
	6 MAX.	±0.2	30 OVER 120 MAX.				
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX
DWG.	DATE			NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY		10:1	
CHK.						UNIT	
APP.				DWG. No. 20698		mm	
				SIZE		SHEET	REV.
				A3		5/9	13



- NOTES**
- 5. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
 - 6. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

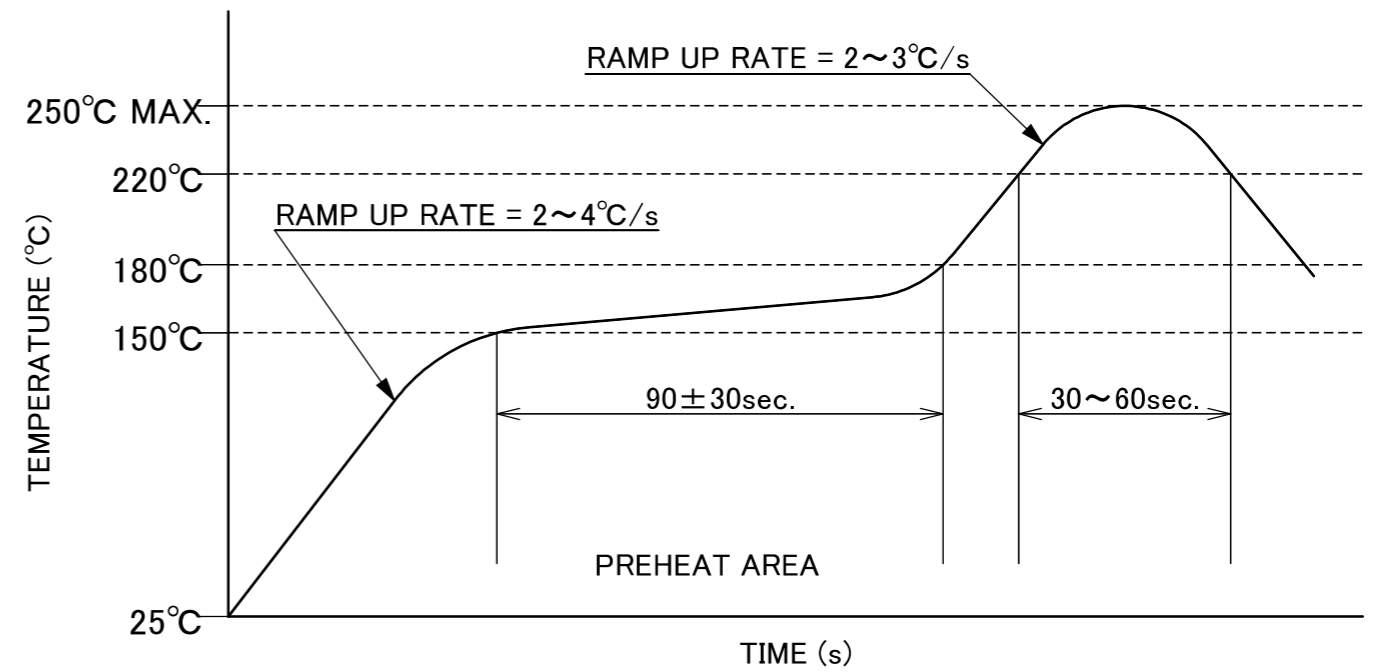
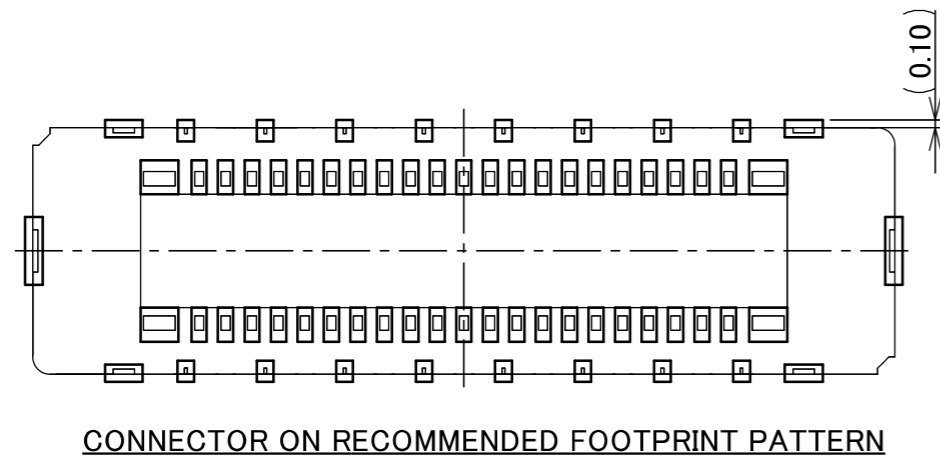
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R2	CUSTOMER COPY		
	6 MAX.	±0.2	30 OVER 120 MAX.					±0.5
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX	
DWG.	DATE			NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY		10:1		
CHK.						UNIT		
APP.				DWG. No. 20698		mm		
						SIZE	SHEET	REV.
						A3	6/9	13

PART No.	SIGNAL POS.	POWER POS.	E
20698-016E-01	16P	4P	7.99
20698-028E-01	28P	4P	10.09
20698-034E-01	34P	4P	11.14
20698-042E-01	42P	4P	12.54
20698-056E-01	56P	4P	14.99
20698-062E-01	62P	4P	16.04



NOTES
7. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

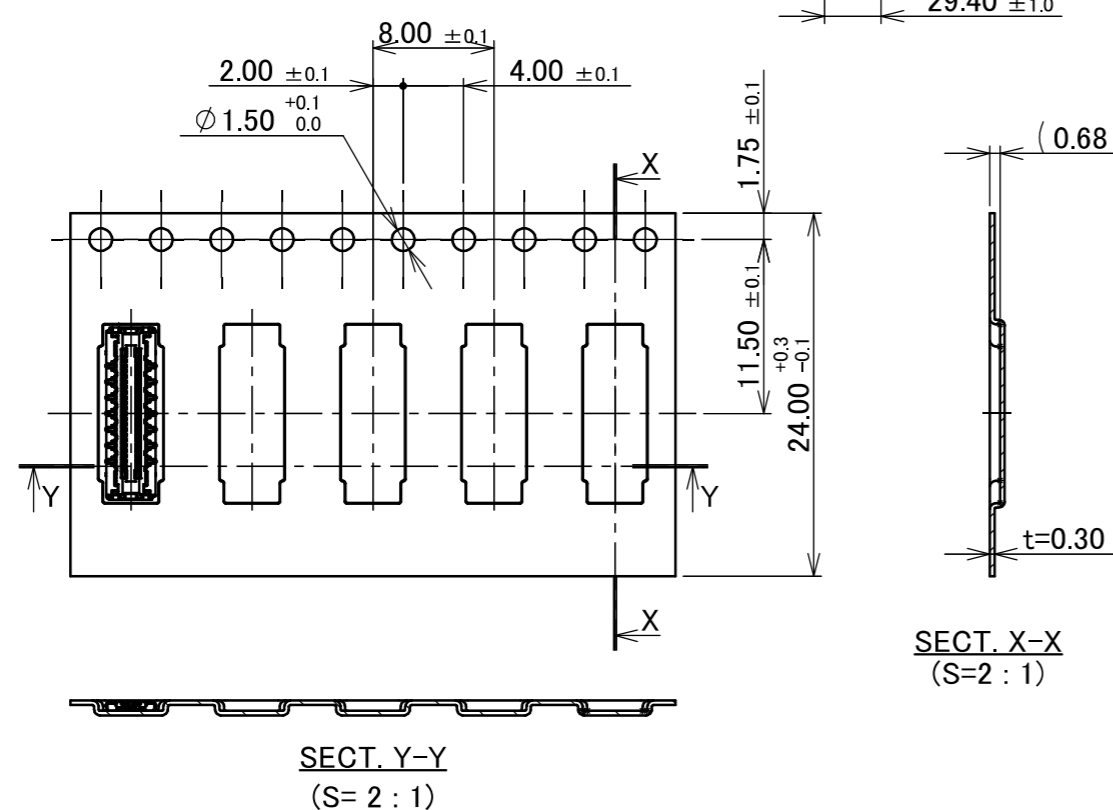
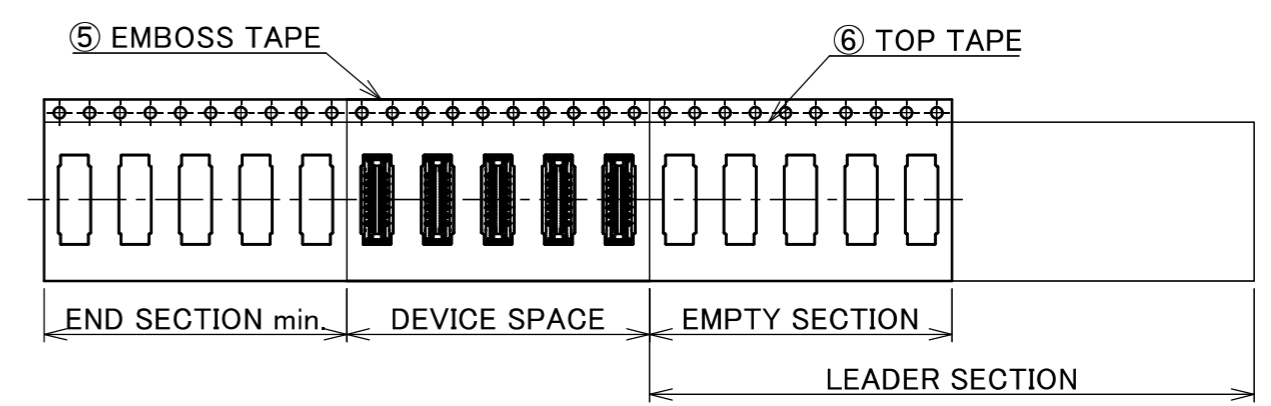
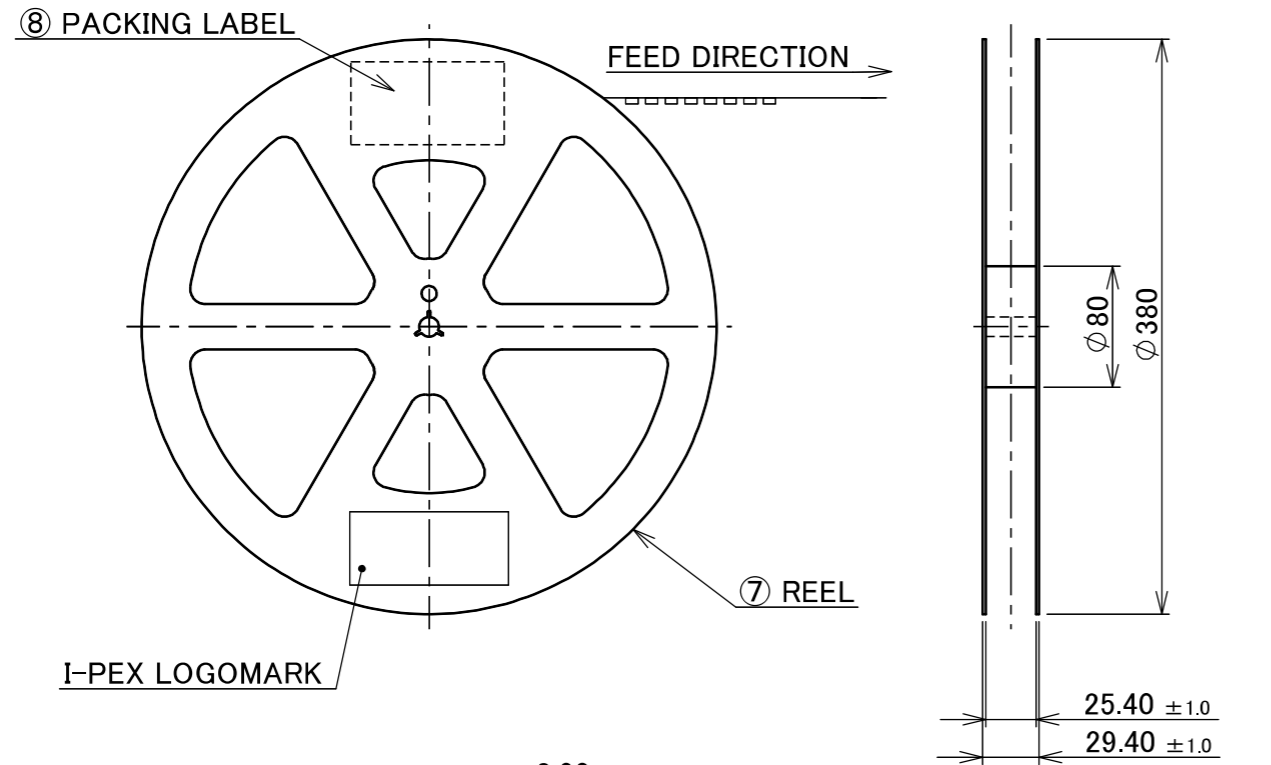
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R2	CUSTOMER COPY		
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY	SCALE 10:1			
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20698	SIZE A3	SHEET 7/9	REV. 13



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. R2	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY	SCALE 10:1	UNIT I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20698	SIZE A3	SHEET 8/9	REV. 13

PART NO.	Pos.	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON
20698-0**E-01	16P	10,000 / REEL	10,000 × 5 REELS = 50,000
	28P		
	34P		
	42P		
	56P		
	62P		



- 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.	DESCRIPTION	MATERIAL	FINISH, REMARKS
8	PACKING LABEL	-	-
7	REEL	PS	ANTI-STATIC TYPE BLACK
6	TOP TAPE	PET t=0.062 TRANSPARENCY	ANTI-STATIC TYPE
5	EMBOSS TAPE	PS TRANSPARENCY	ANTI-STATIC TYPE

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R2	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP RECEPTACLE ASSEMBLY	SCALE X:1	UNIT I-PEX		
DWG.	DATE							
CHK.								
APP.								
DWG. No.	20698			SIZE A3	SHEET 9/9	REV. 13		