

Recommended P/N 20697-0\*\*E-01-#

PART No.	SIGNAL POS.	POWER POS.	A	B	C	D	E
20697-016E-01-P	16P	4P	7.69	5.89	3.50	2.45	7.09
20697-028E-01	28P	4P	9.79	7.99	5.60	4.55	9.19
20697-034E-01	34P	4P	10.84	9.04	6.65	5.60	10.24
20697-042E-01	42P	4P	12.24	10.44	8.05	7.00	11.64
20697-056E-01	56P	4P	14.69	12.89	10.50	9.45	14.09
20697-062E-01	62P	4P	15.74	13.94	11.55	10.50	15.14

20697-0\*\*E-01-P

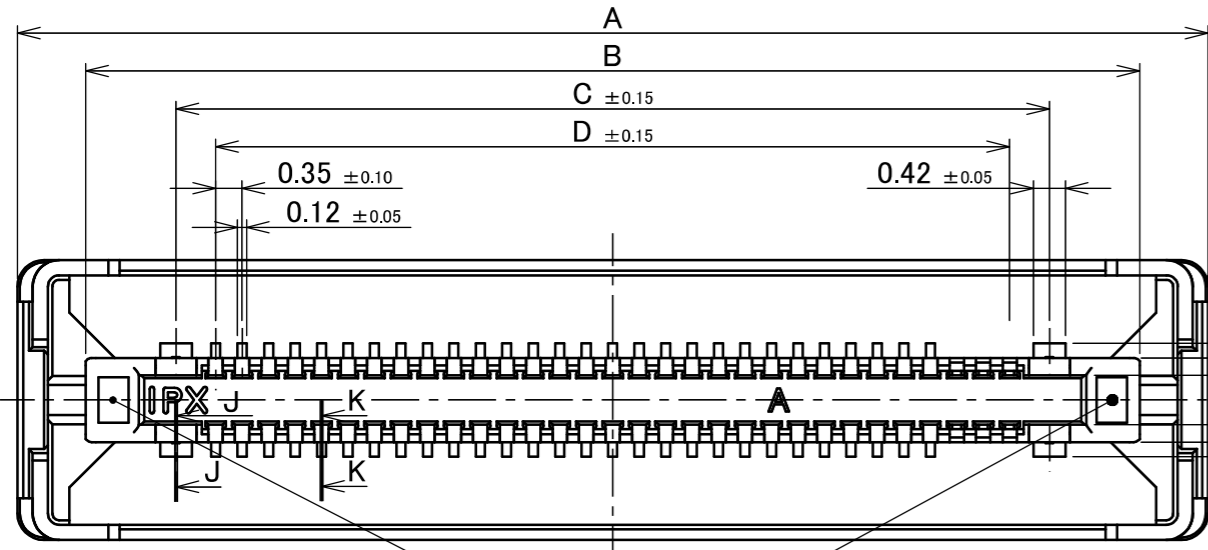
HOUSING MATERIAL  
 WITHOUT : LCP, UL94-0, BLACK  
 WITH : LCP, UL94-0, BLACK (PFAS FREE)



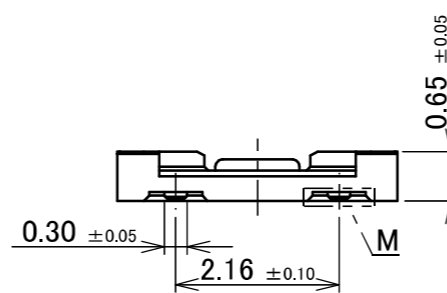
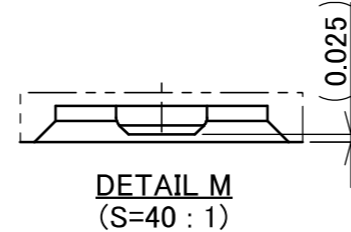
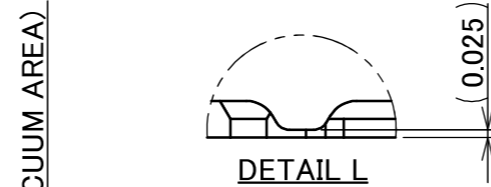
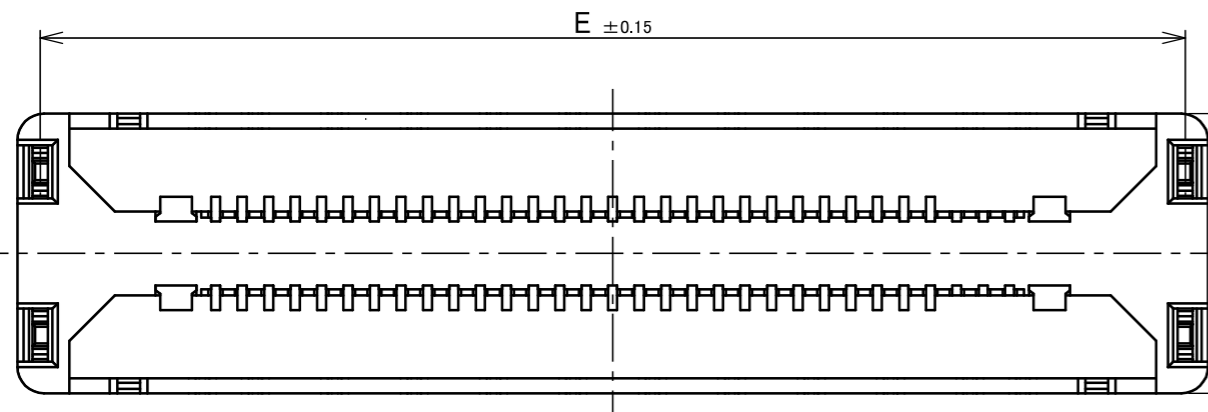
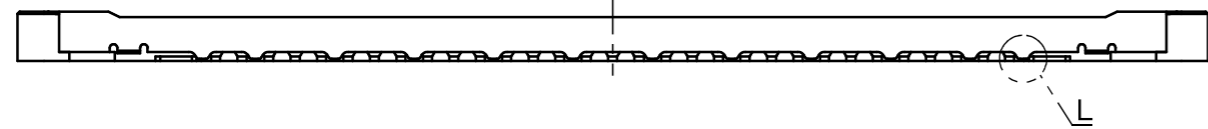
Halogen Free



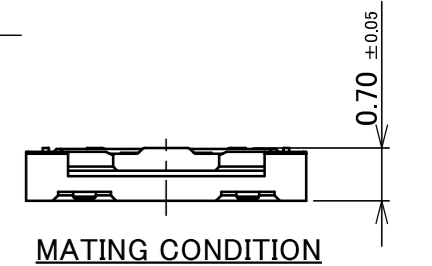
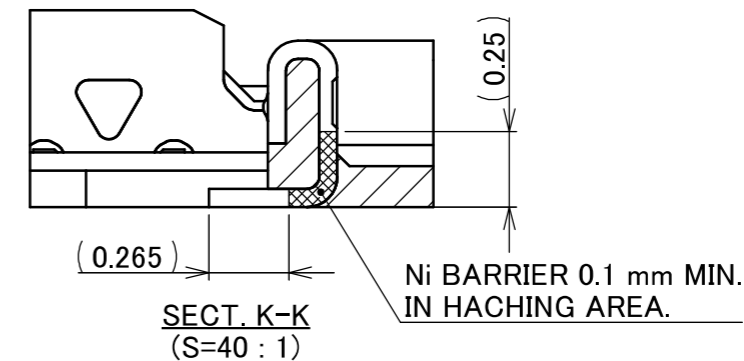
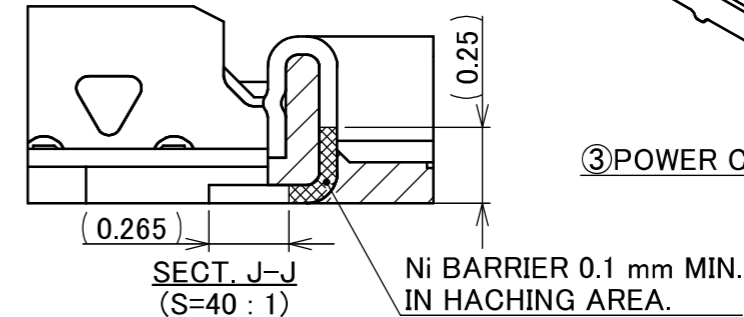
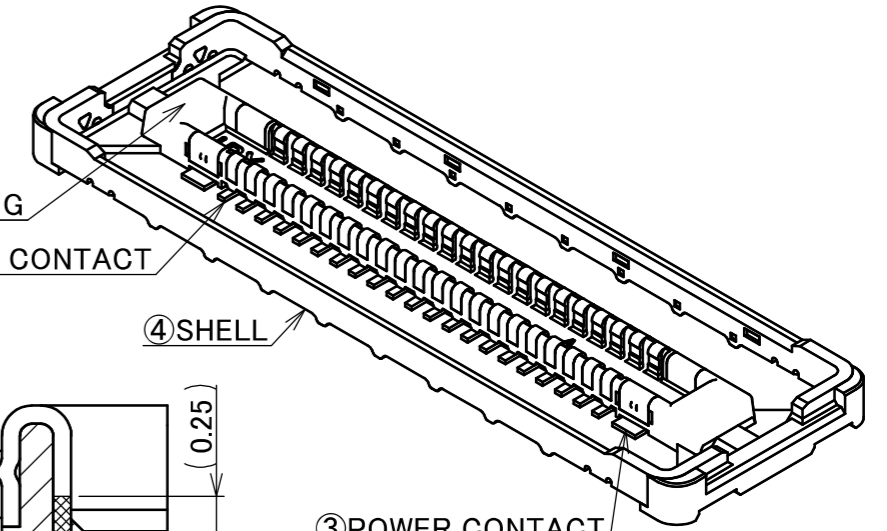
RoHS Compliant



CONCAVE SHAPE (62P ONLY)



① HOUSING  
 ② SIGNAL CONTACT



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 0.05 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.	DATE	PROJECTION	SERIES No.	TITLE	SCALE	SHEET	REV.
10	Z250489	T.M	2025/03/26	S.S	ANGLE	±2°	6 OVER 30 MAX.	±0.3		R1	NOVASTACK® 35-HDP PLUG ASSEMBLY	10:1	A3	10
9	Z241223	Y.F	2024/09/09	S.S	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5						
8	Z240715	Y.F	2024/06/07	S.S	GENERAL TOLERANCE.									
7	Z220191	Y.I	2022/03/04	Y.H	DWG.	T.Kurachi	DATE	2016/01/13						
6	Z200541	Y.B	2020/05/26	T.Y	CHK.									
5	Z181722	Y.B	2018/12/26	TAK										
REV.	ECN	BY	DATE	APP.	APP.	DATE	APP.	DATE	DWG. No.	20697			1/9	10

REVISION RECORD

J.Tateishi

20697

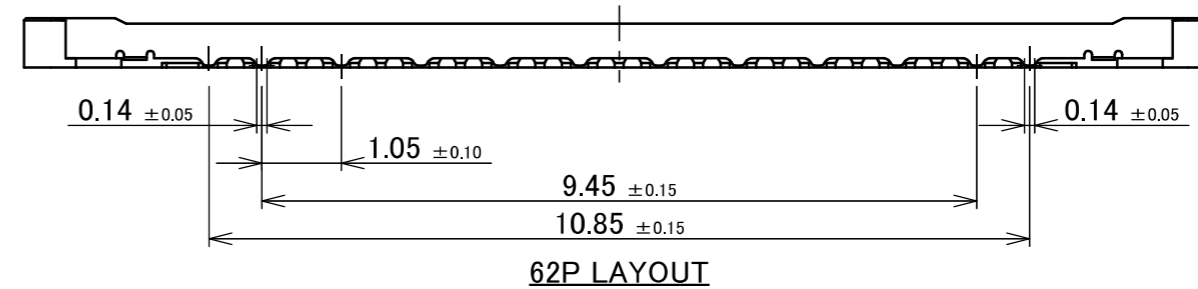
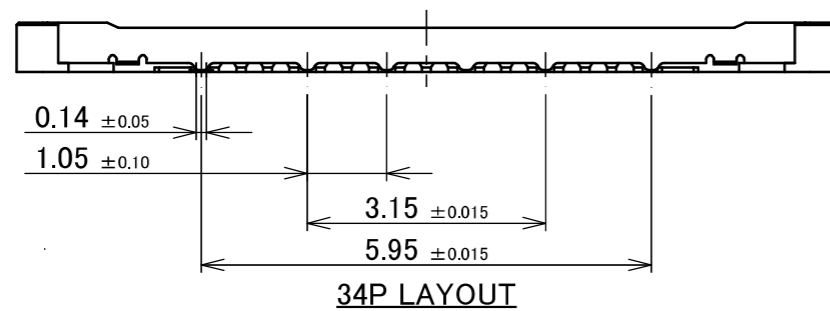
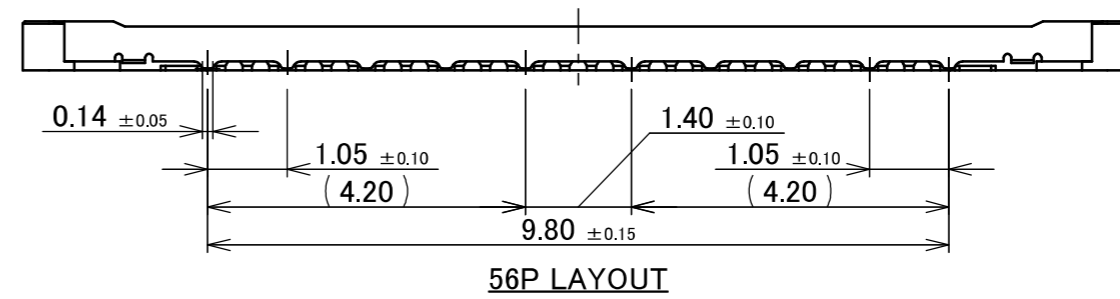
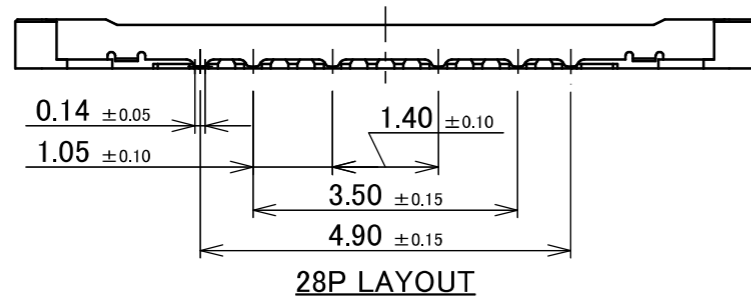
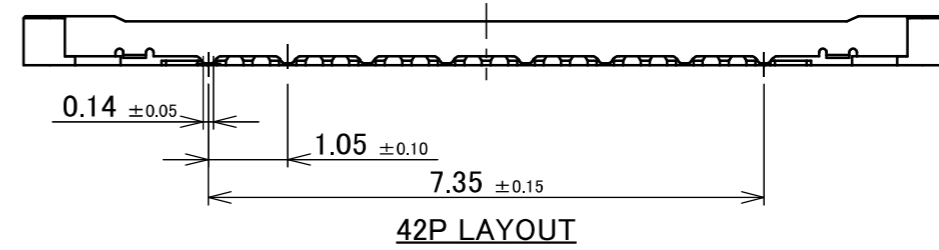
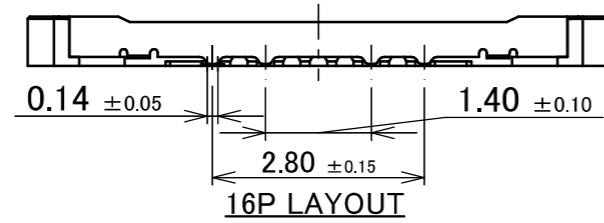
1/9 10

PART No.	SIGNAL POS.	POWER POS.
20697-016E-01-P	16P	4P
20697-028E-01	28P	4P
20697-034E-01	34P	4P
20697-042E-01	42P	4P
20697-056E-01	56P	4P
20697-062E-01	62P	4P

20697-0\*\*E-01-P

HOUSING MATERIAL  
 WITHOUT : LCP, UL94-0, BLACK  
 WITH : LCP, UL94-0, BLACK (PFAS FREE)

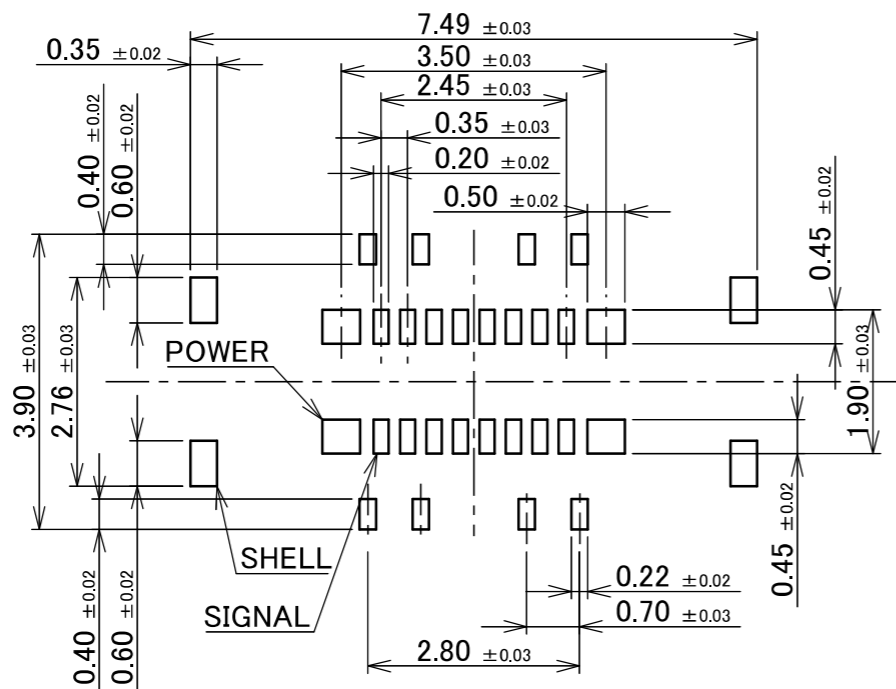
Pos.



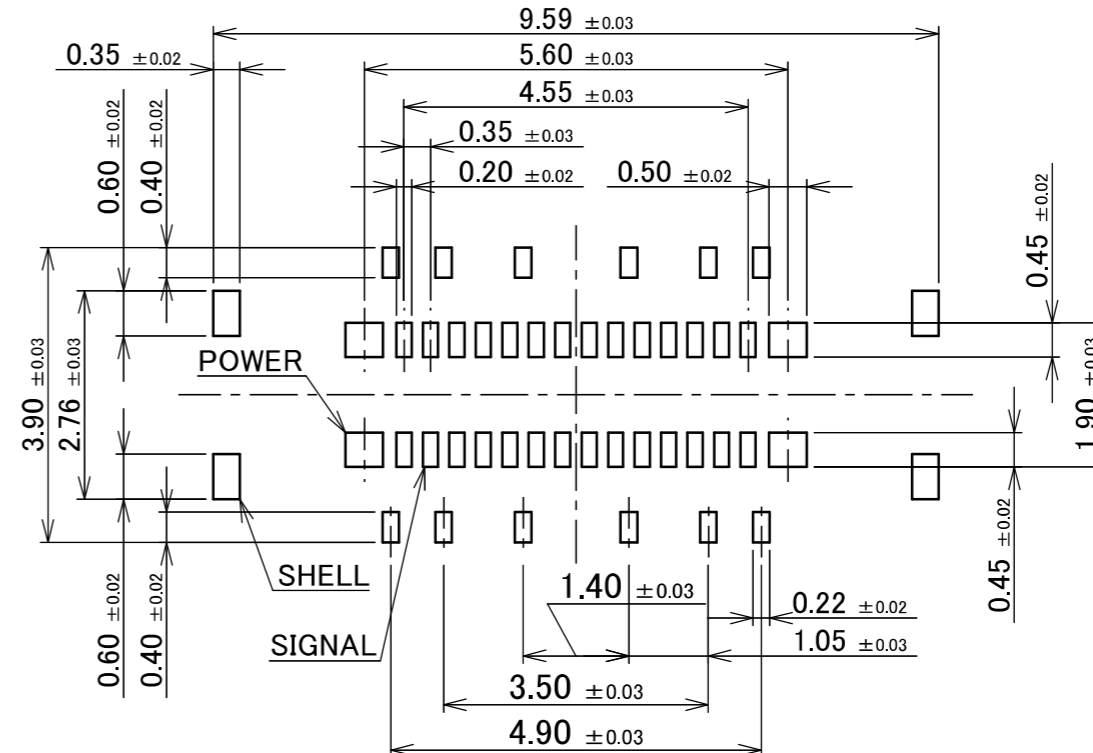
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R1	CUSTOMER COPY		
	6 MAX.	±0.2	30 OVER 120 MAX.					±0.5
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE 10:1	UNIT <b>I-PEX</b>		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20697	SIZE A3	SHEET 2/9	REV. 10

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20698-0**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 : $\triangle$ 40mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 20mohm MAX. / AFTER TEST : $\triangle$ 20mohm MAX.
CONTACT RESISTANCE (FOR GROUND)	INITIAL : 20mohm MAX. / AFTER TEST : $\triangle$ 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	CONTACT AND POWER CONTACT: 0.08 MAX. SHELL: 0.105 MAX.
PRODUCT SPECIFICATION	PRS-2187
TEST REPORT	TR-16014
PACKING STANDARD	PST-15083 (10K/REEL)
INSTRUCTION MANUAL	HIM-15020
APPEARANCE CRITERIA No.	QLS-A***

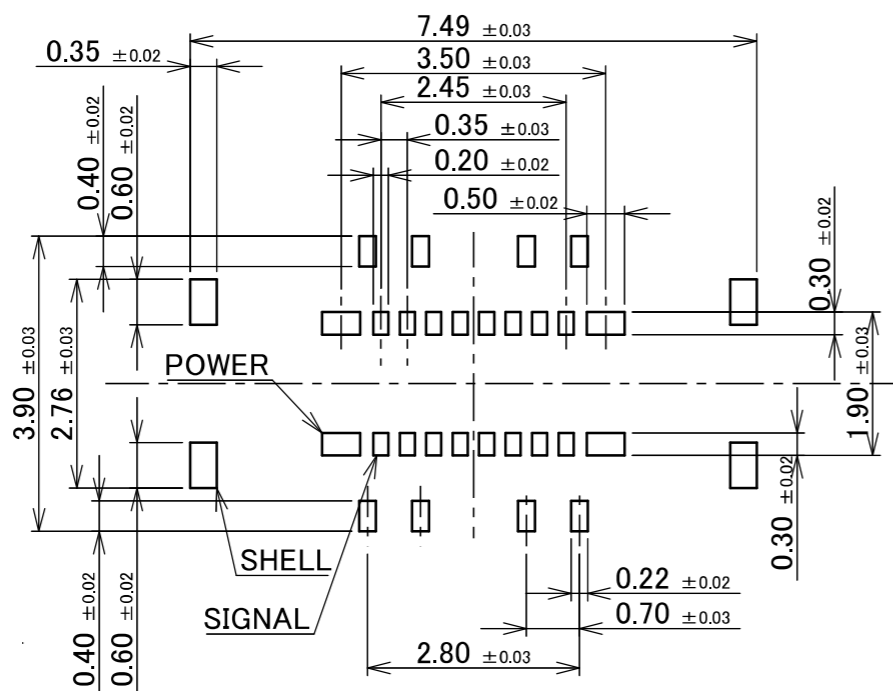
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	$\pm 0.3$	PROJECTION 	SERIES No. R1	CUSTOMER COPY		
6 MAX.	$\pm 0.2$	30 OVER 120 MAX.	$\pm 0.5$			TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE -	<b>I-PEX</b>
GENERAL TOLERANCE.				DWG. No. 20697	UNIT mm	SIZE A3	SHEET 3/9	
DWG.	DATE							
CHK.								
APP.								



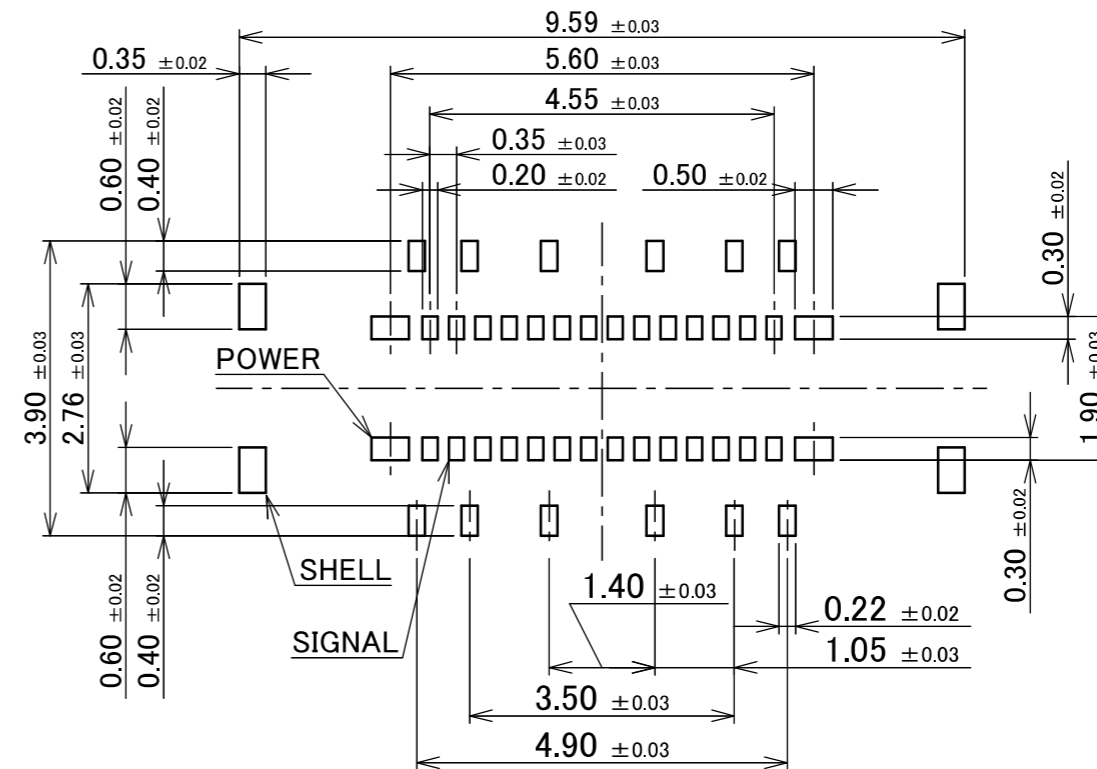
RECOMMENDED PATTERN LAYOUT (16P)



RECOMMENDED PATTERN LAYOUT (28P)

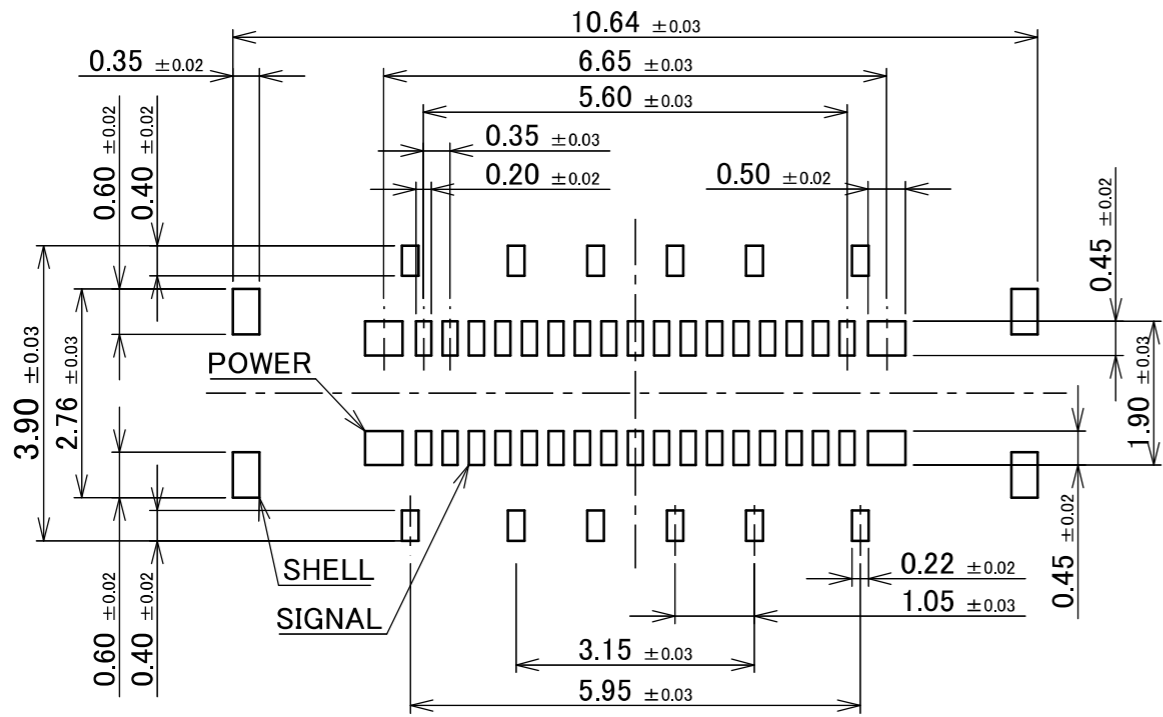


RECOMMENDED METAL MASK LAYOUT (16P)  
THICKNESS : t=0.10 mm

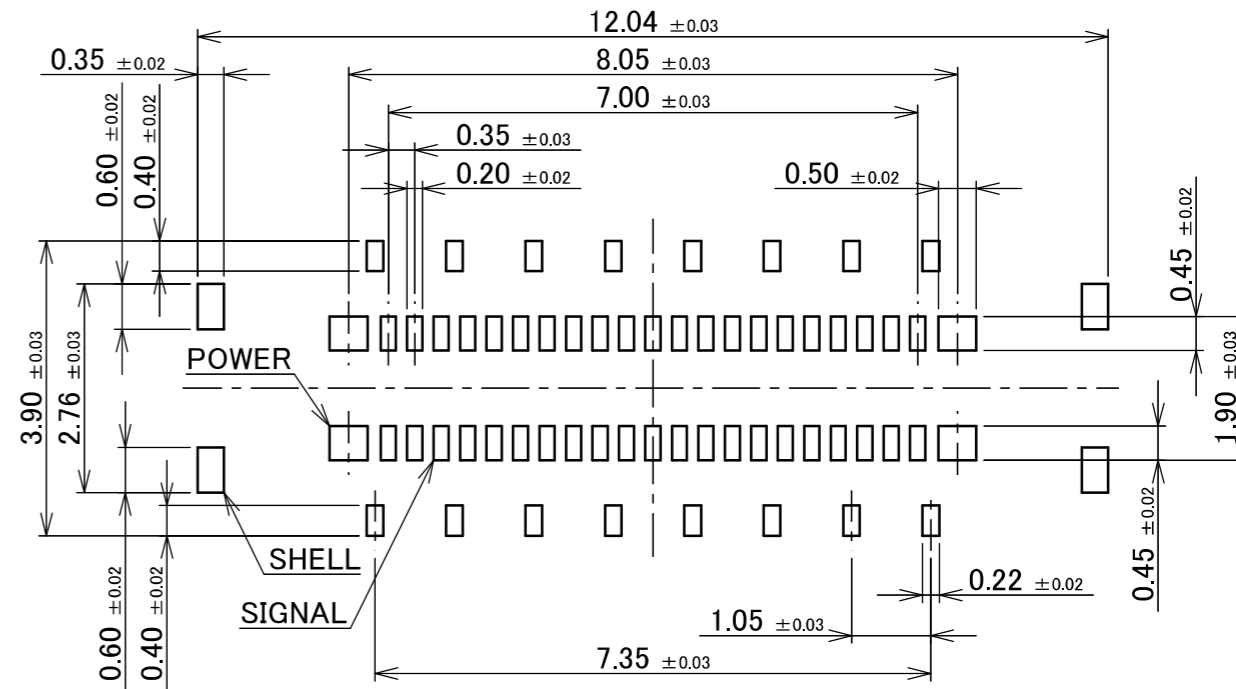


RECOMMENDED METAL MASK LAYOUT (28P)  
THICKNESS : t=0.10 mm

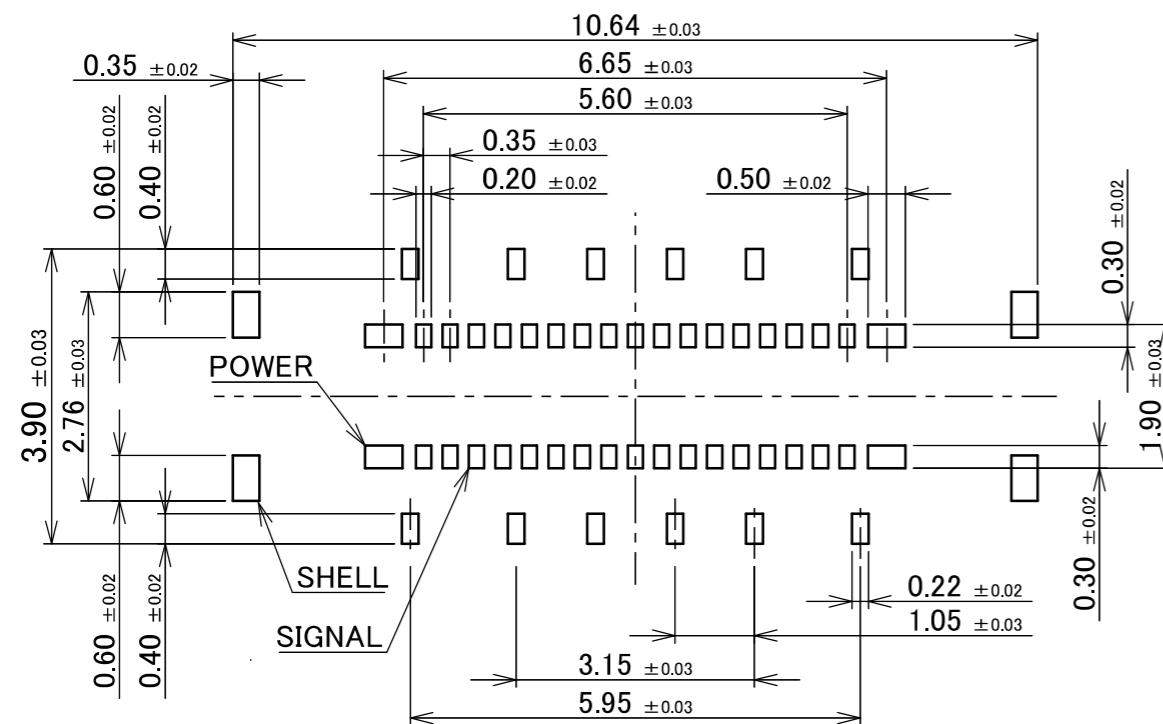
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R1	CUSTOMER COPY			
	6 MAX.	±0.2	30 OVER 120 MAX.						±0.5
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX		
DWG.	DATE			NOVASTACK® 35-HDP PLUG ASSEMBLY		10:1			
CHK.						UNIT			
APP.						mm			
				DWG. No.	20697	SIZE	SHEET	REV.	
						A3	4/9	10	



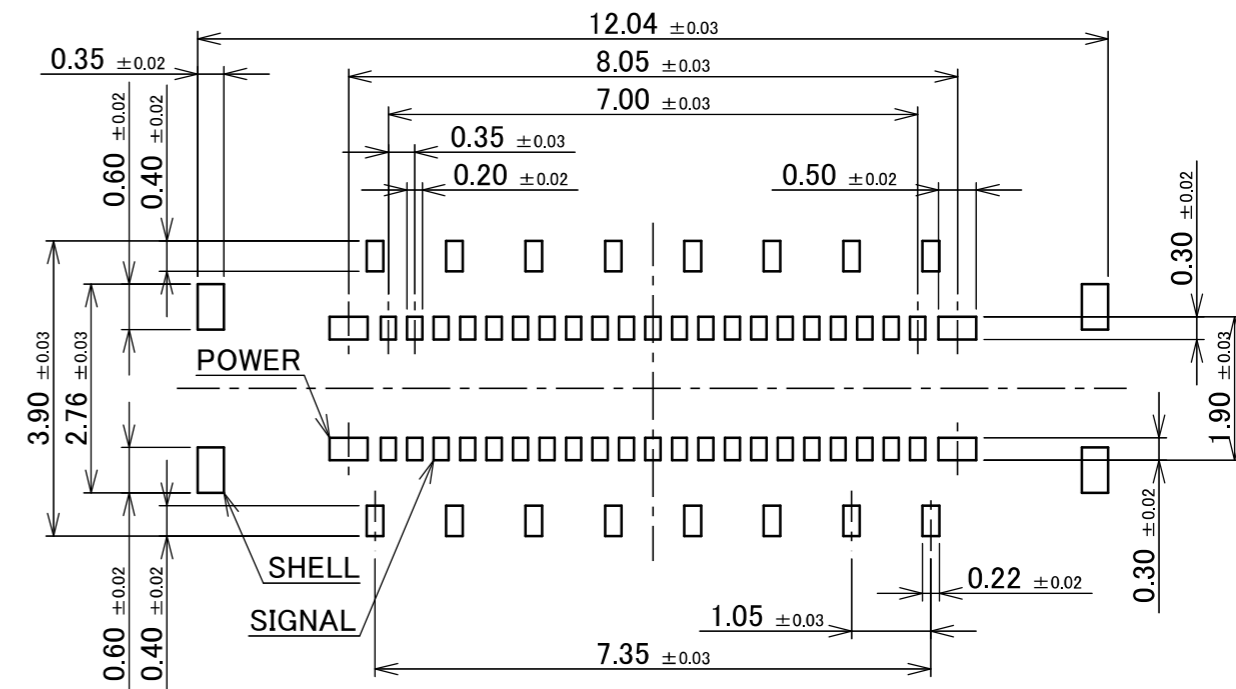
RECOMMENDED PATTERN LAYOUT (34P)



RECOMMENDED PATTERN LAYOUT (42P)

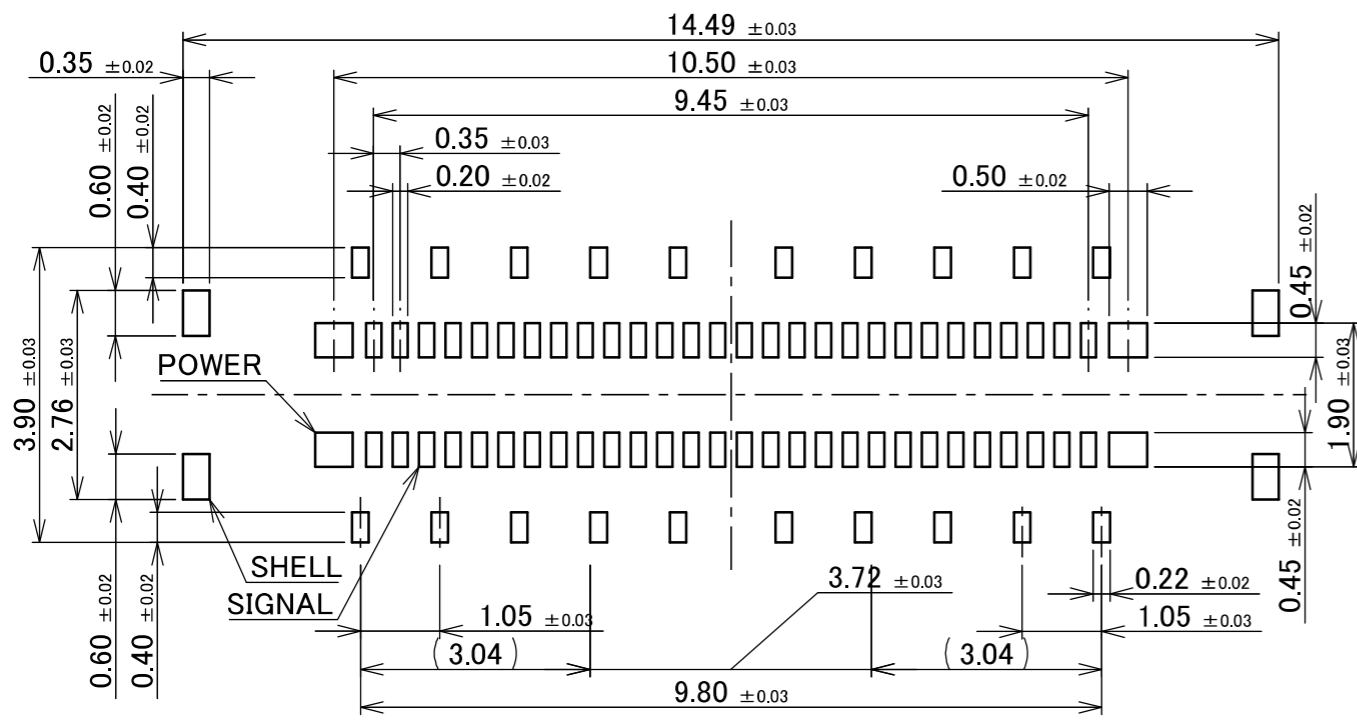


RECOMMENDED METAL MASK LAYOUT (34P)  
THICKNESS : t=0.10 mm

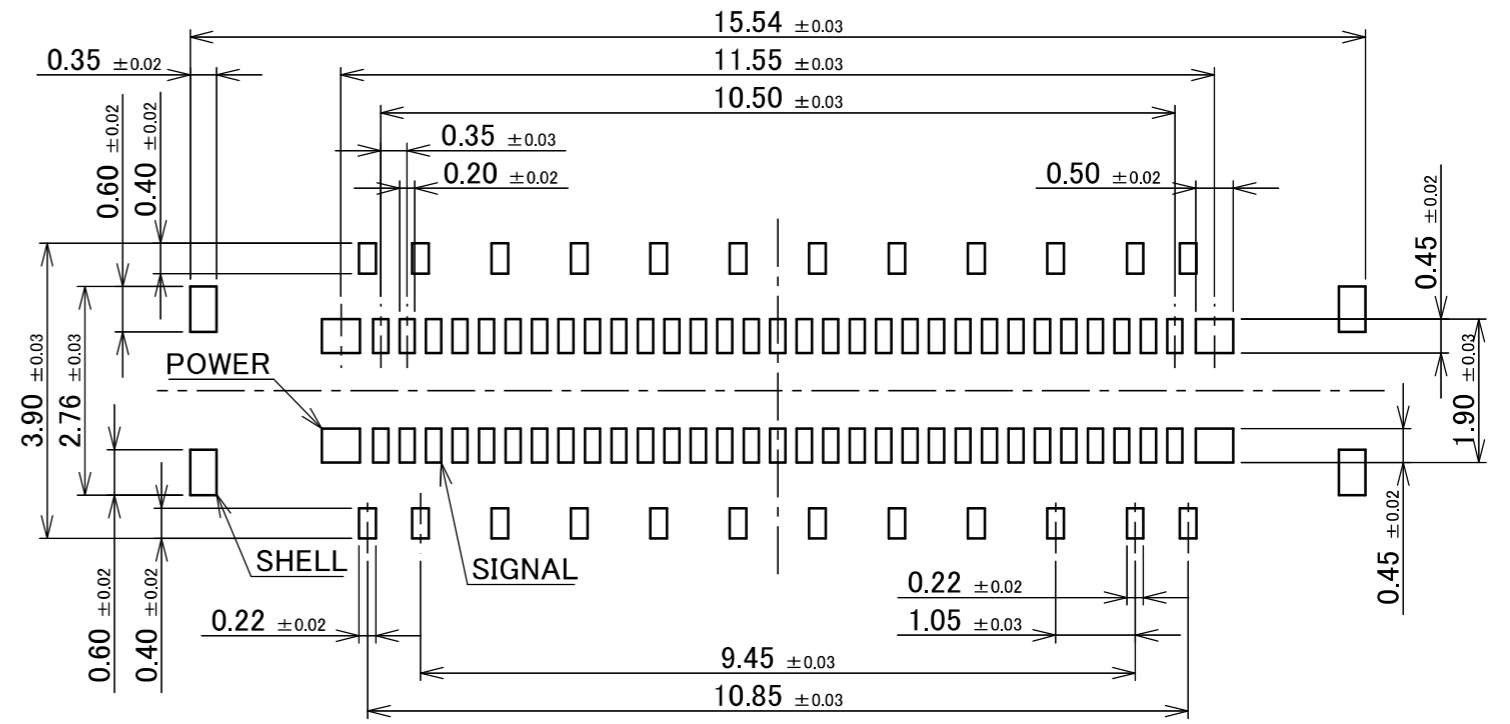


RECOMMENDED METAL MASK LAYOUT (42P)  
THICKNESS : t=0.10 mm

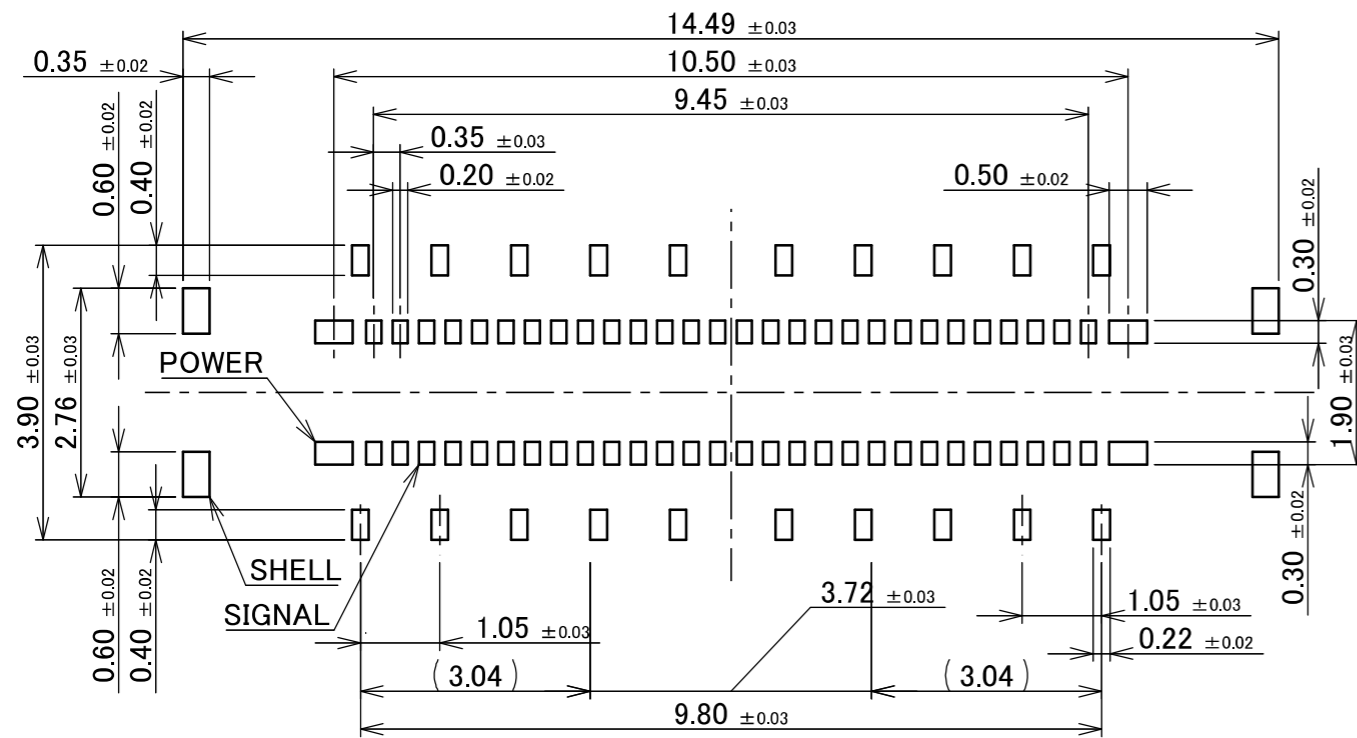
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R1	CUSTOMER COPY			
	6 MAX.	±0.2	30 OVER 120 MAX.						±0.5
GENERAL TOLERANCE.				TITLE		SCALE	<b>I-PEX</b>		
DWG.	DATE			NOVASTACK® 35-HDP PLUG ASSEMBLY		10:1			
CHK.						UNIT			
APP.						mm			
				DWG. No.	20697	SIZE	SHEET	REV.	
						A3	5/9	10	



RECOMMENDED PATTERN LAYOUT (56P)

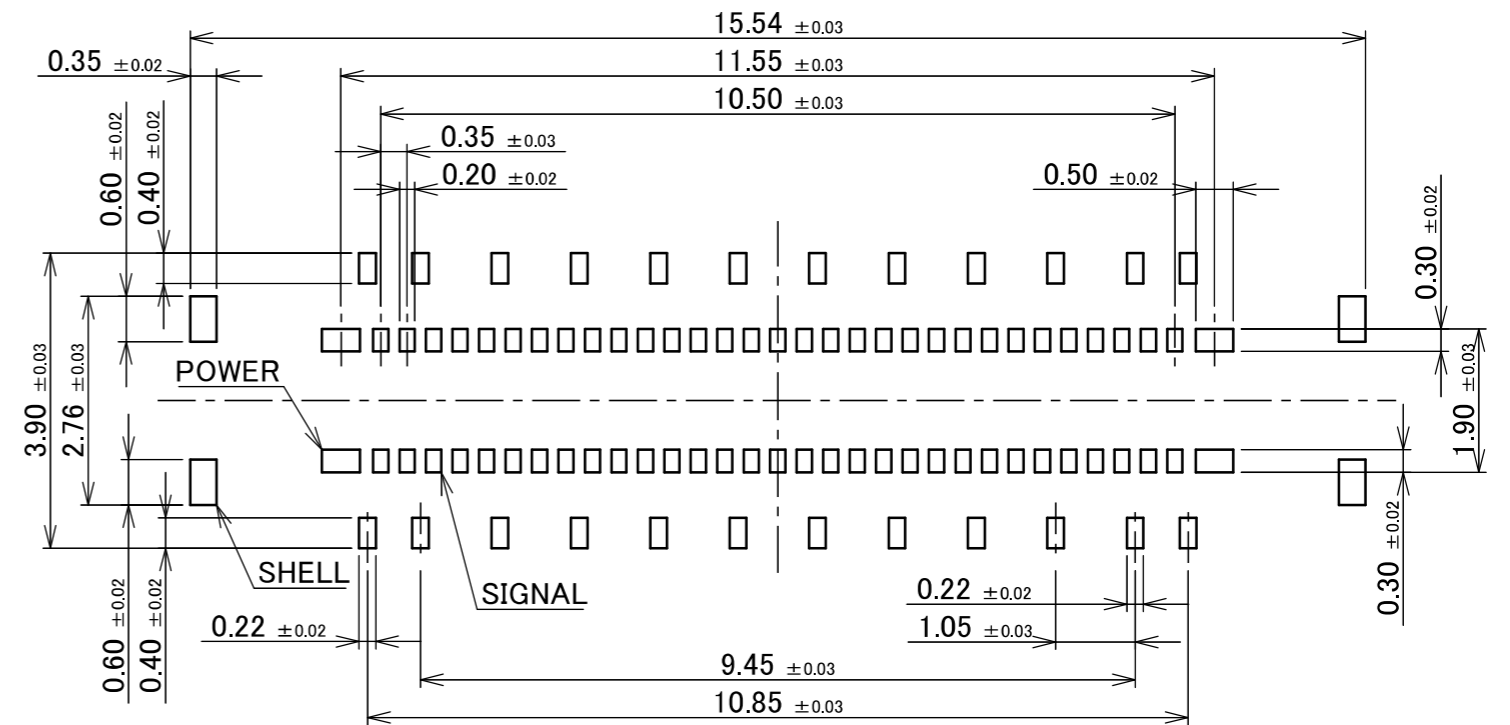


RECOMMENDED PATTERN LAYOUT (62P)



RECOMMENDED METAL MASK LAYOUT (56P)

THICKNESS : t=0.10 mm

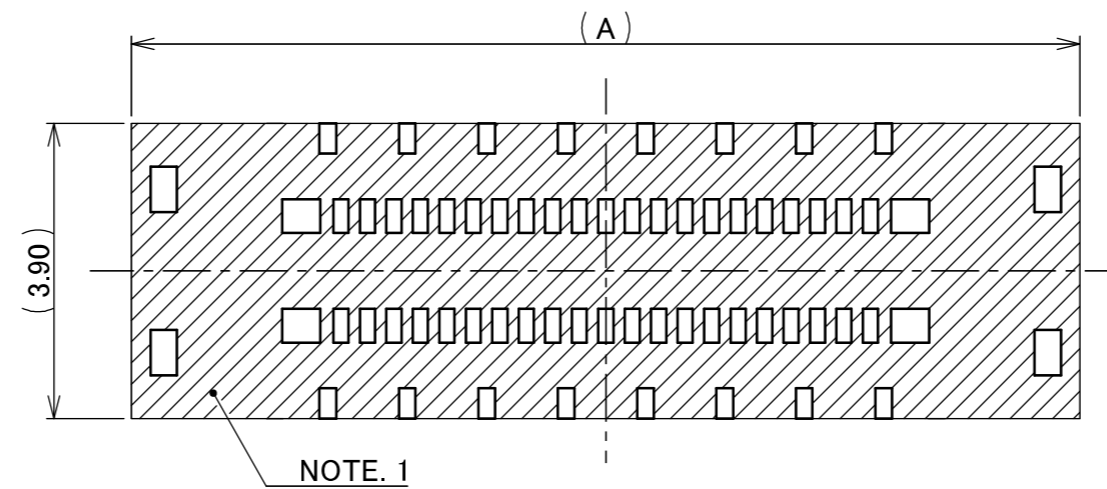


RECOMMENDED METAL MASK LAYOUT (62P)

THICKNESS : t=0.10 mm

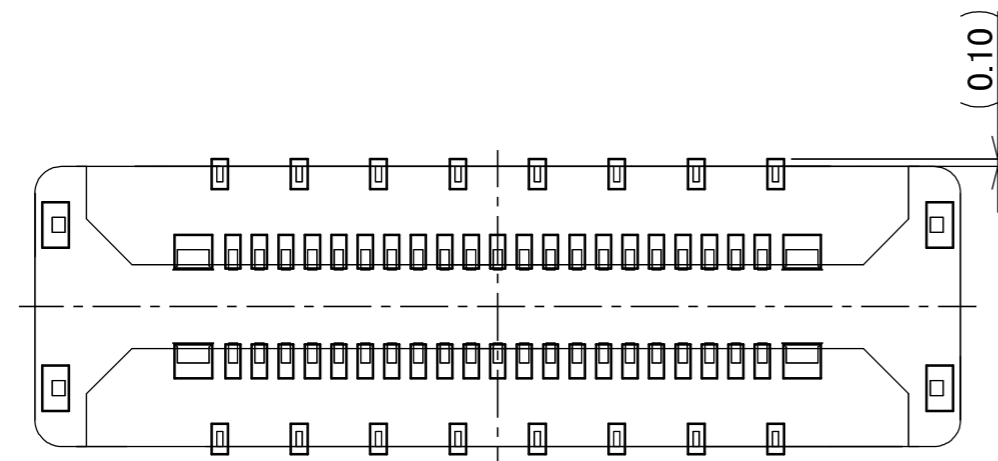
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R1	CUSTOMER COPY			
	6 MAX.	±0.2	30 OVER 120 MAX.						±0.5
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX		
DWG.	DATE			NOVASTACK® 35-HDP PLUG ASSEMBLY		10:1			
CHK.						UNIT			
APP.						mm			
				DWG. No.	20697	SIZE	SHEET	REV.	
						A3	6/9	10	

PART No.	SIGNAL POS.	POWER POS.	A
20697-016E-01-P	16P	4P	7.99
20697-028E-01	28P	4P	10.09
20697-034E-01	34P	4P	11.14
20697-042E-01	42P	4P	12.54
20697-056E-01	56P	4P	14.99
20697-062E-01	62P	4P	16.04

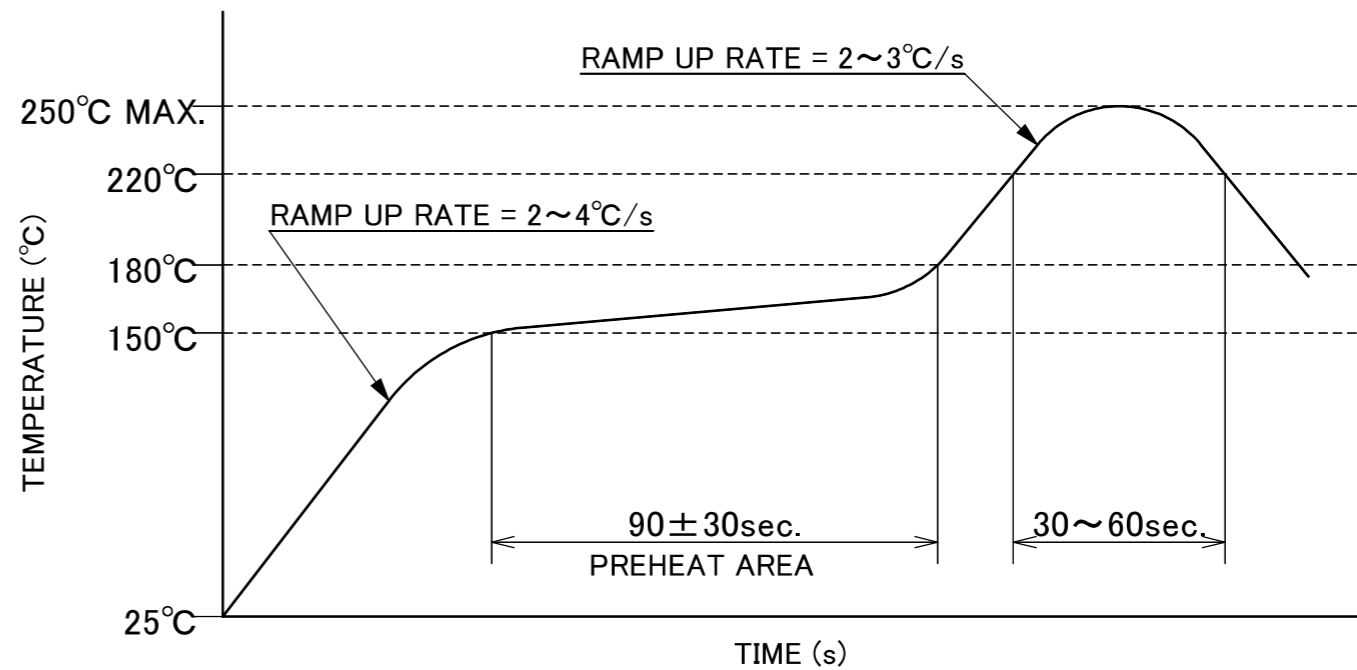


NOTES.  
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

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 NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE 10:1	UNIT <b>I-PEX</b>		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20697	SIZE A3	SHEET 7/9	REV. 10



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



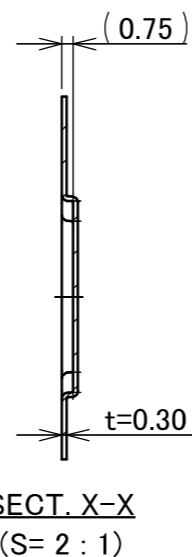
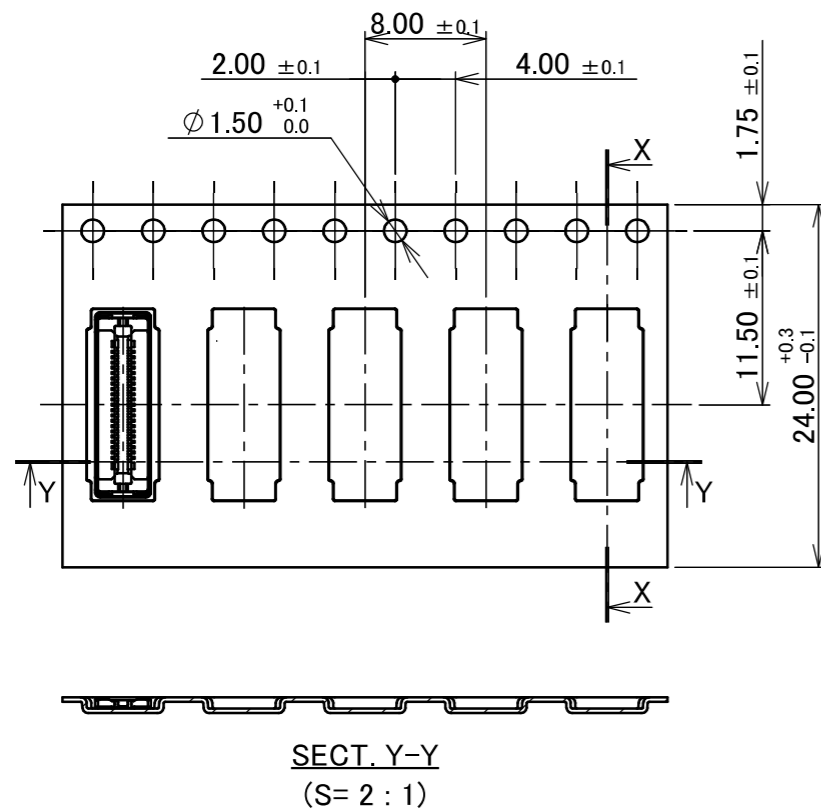
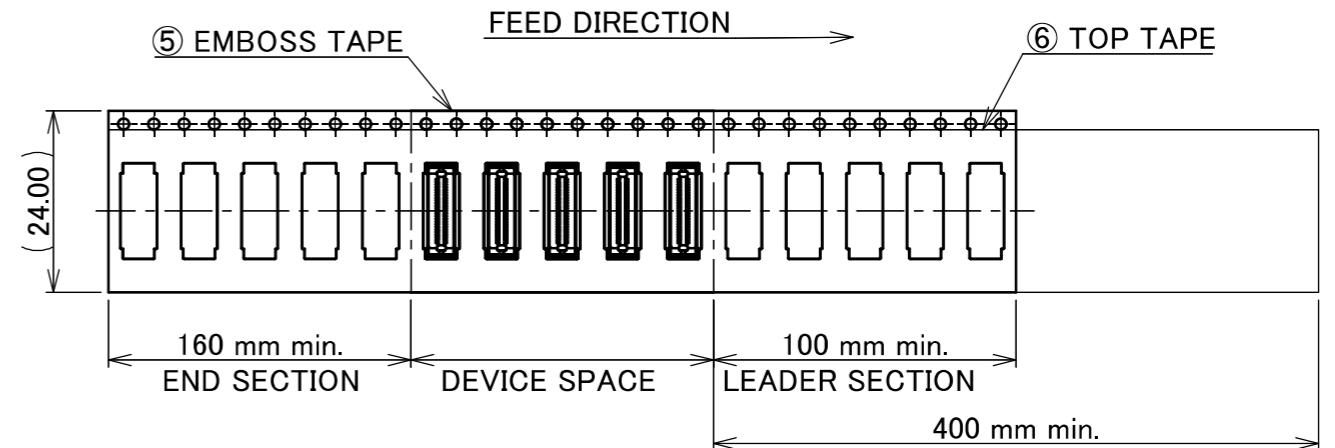
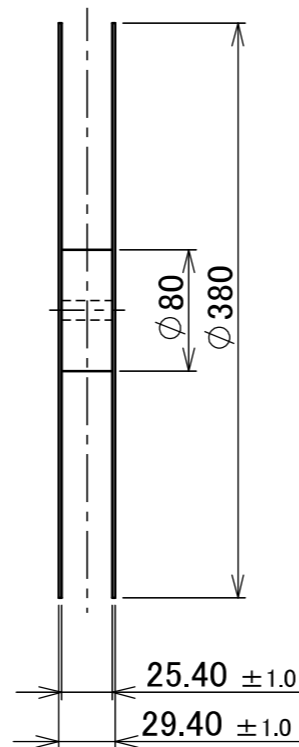
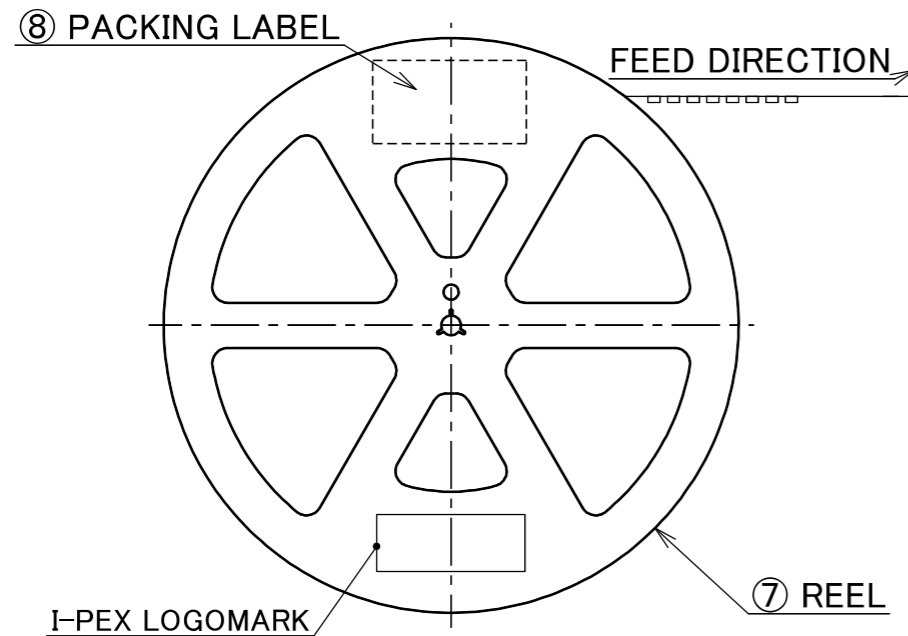
REFLOW TEMPERATURE PROFILE  
 SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE 10:1			
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20697	SIZE	SHEET	REV.
						A3	8/9	10



PART NO.	Pos.	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON
20697-0**E-01-#	16P	10,000 / REEL	10,000 × 5 REELS = 50,000
	28P		
	34P		
	42P		
	56P		
	62P		

20697-0\*\*E-01-P  
 HOUSING MATERIAL  
 WITHOUT : LCP, UL94-0, BLACK  
 WITH : LCP, UL94-0, BLACK (PFAS FREE)  
 Pos.



- 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
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.	CUSTOMER COPY			
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R1				
GENERAL TOLERANCE.				TITLE	NOVASTACK® 35-HDP PLUG ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					UNIT			
CHK.						mm			
APP.				DWG. No.	20697	SIZE	SHEET	REV.	
						A3	9/9	10	