

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)

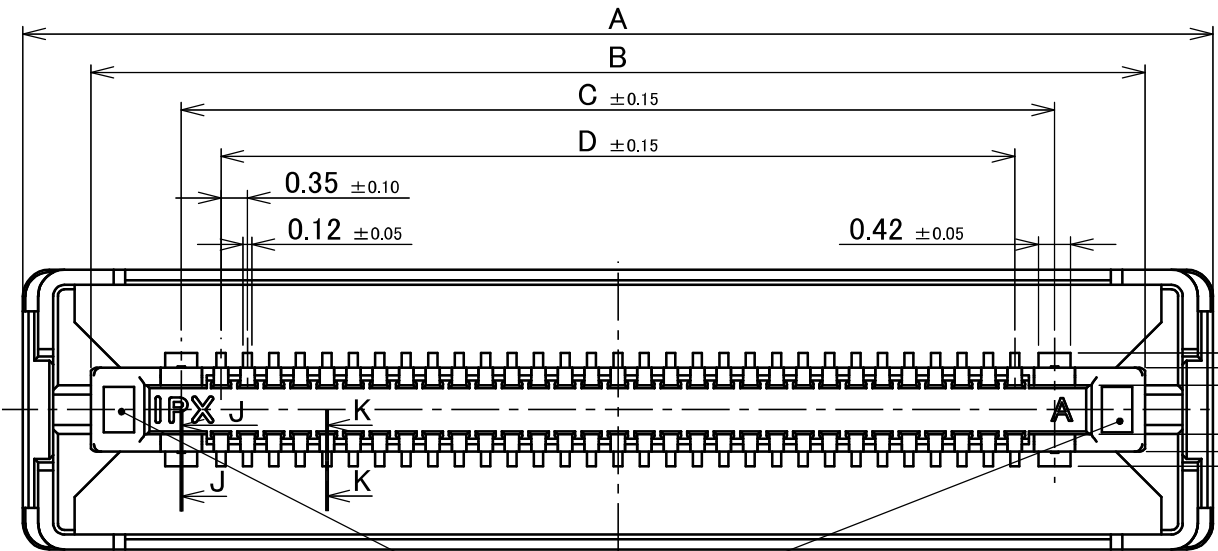


Halogen Free

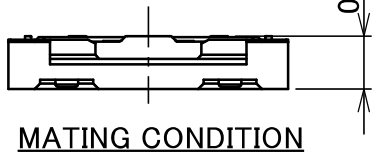
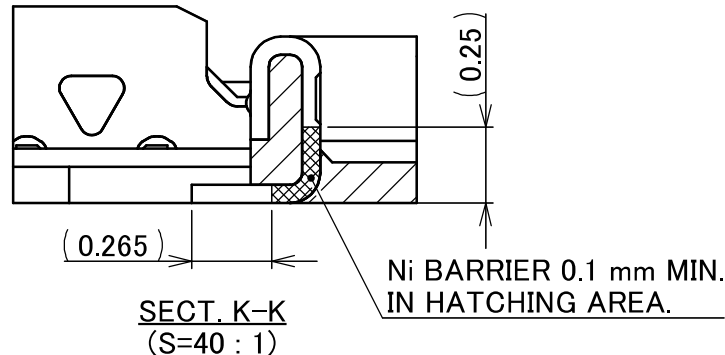
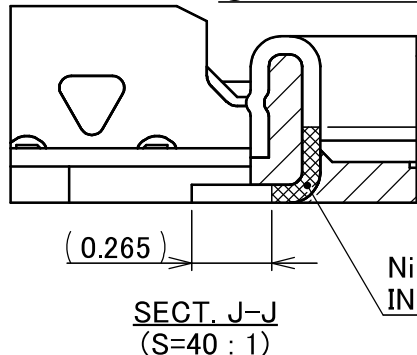
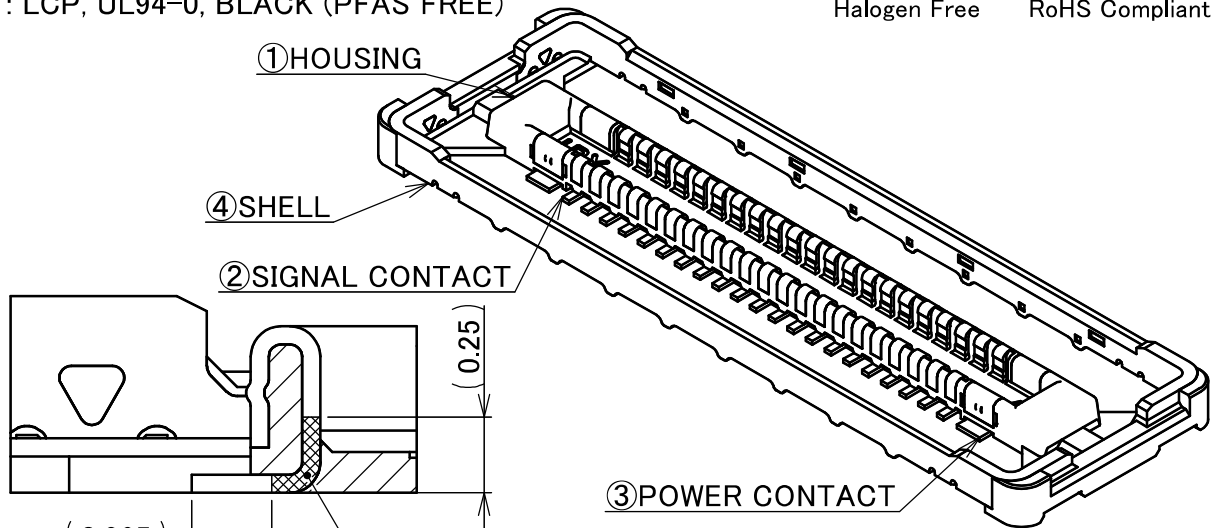
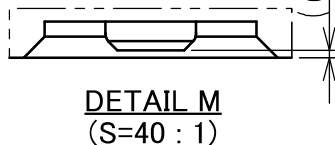
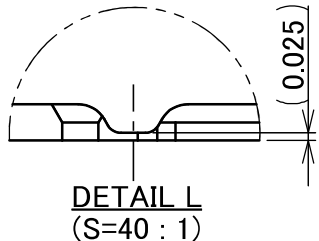
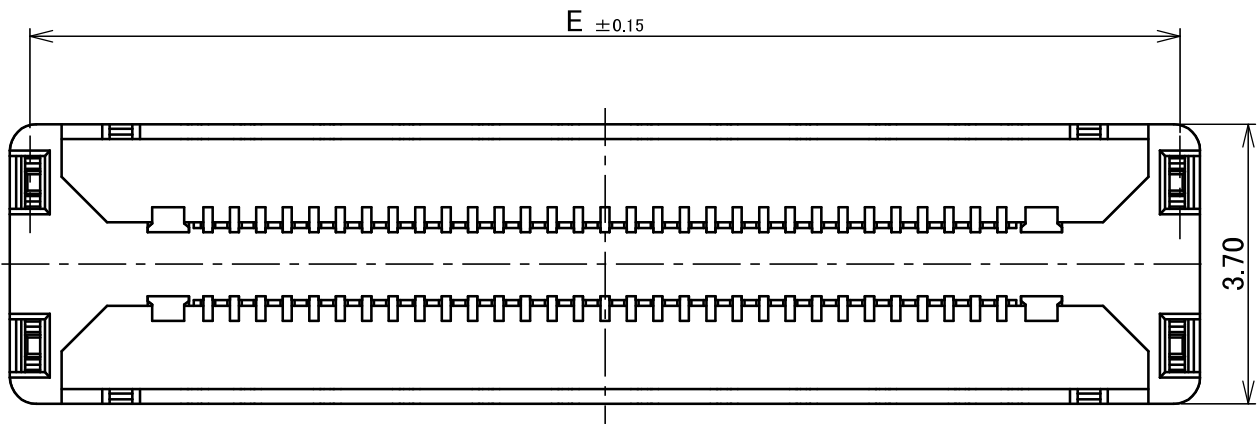
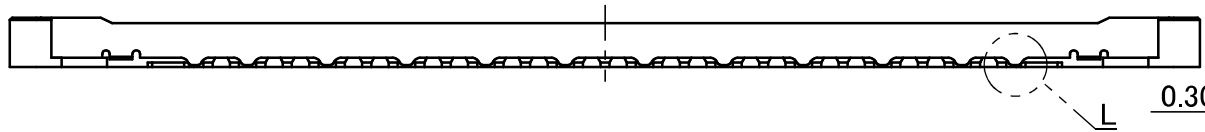


RoHS Compliant

Pos.



CONCAVE SHAPE (62P ONLY)



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
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

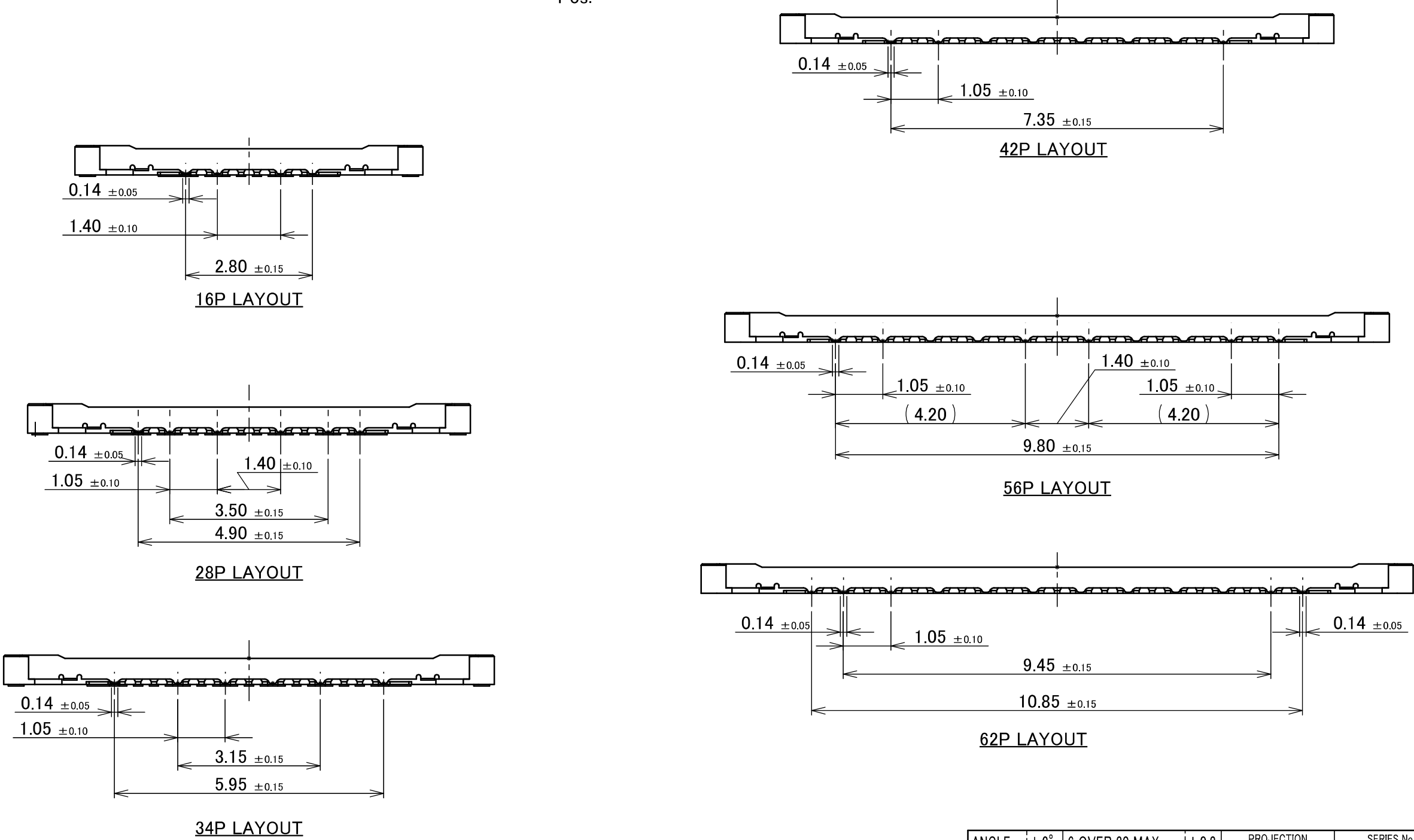
12	ZC00197	C.K	2025/10/24	S.S	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R1	CUSTOMER COPY		
11	ZC00085	C.K	2025/09/09	S.S	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
10	Z250489	TMT	2025/03/26	S.S	GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE 10:1	I-PEX		
9	Z241223	Y.F	2024/09/09	S.S	DWG.	DATE							
8	Z240715	Y.F	2024/06/07	S.S	T.Kurachi		2016/01/13						
7	Z220191	Y.I	2022/03/04	Y.H	CHK.								
REV.	ECN	BY	DATE	APP.	APP.				DWG. No.	20697	SIZE	SHEET	REV.
REVISION RECORD					J.Tateishi						A3	1/9	12

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)

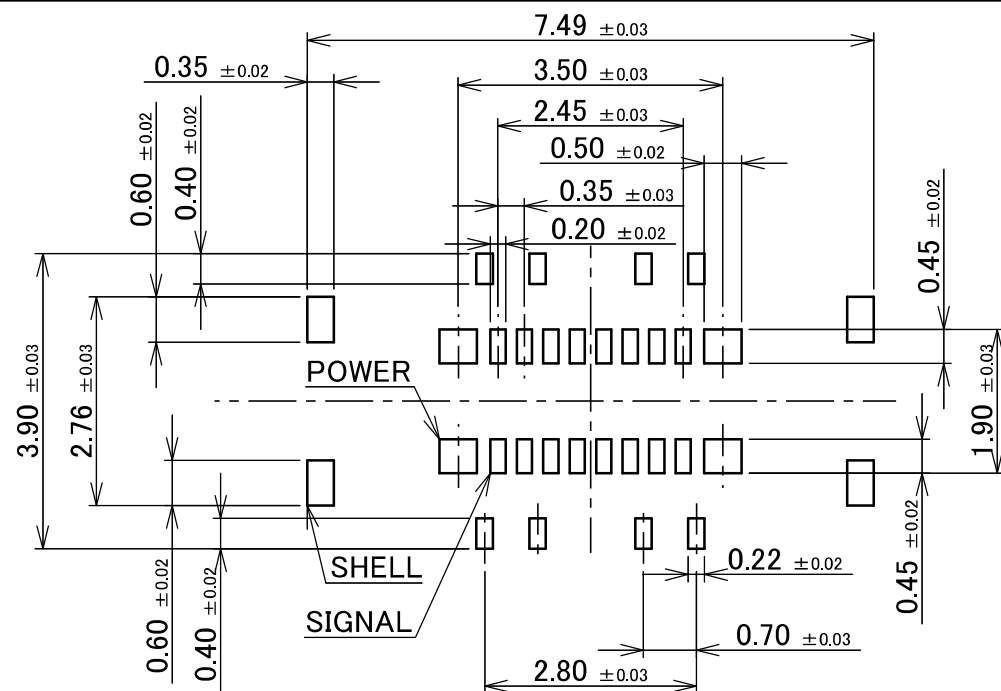
Pos.



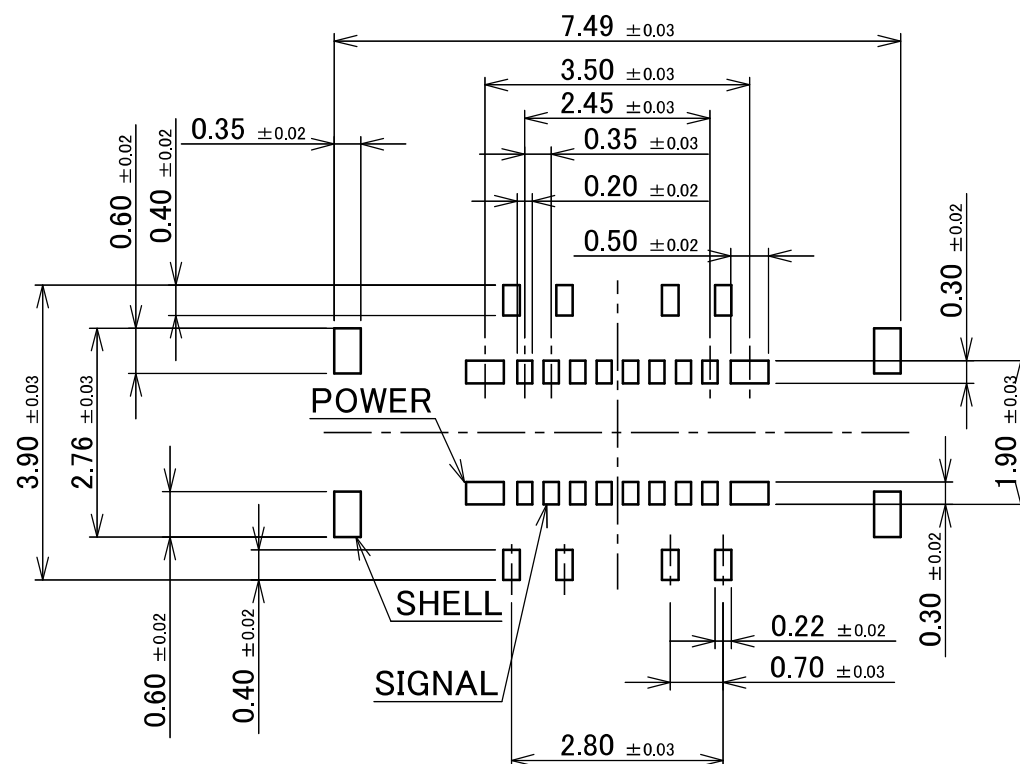
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					10:1		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20697		SIZE	SHEET	REV.
						A3	2/9	12

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20698-0**E-01*
RATED VOLTAGE	60V AC (PER CONTACT PIN)
RATED AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
RATED 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.
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	AC 250V 1 min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	16P: 32.0 N MAX. 28P: 32.0 N MAX. 34P: 38.0 N MAX. 42P: 46.0 N MAX. 56P: 60.0 N MAX. 62P: 66.0 N MAX.
UNMATING FORCE (AFTER TEST)	16P: 3.2 N MIN. 28P: 3.2 N MIN. 34P: 3.8 N MIN. 42P: 4.6 N MIN. 56P: 6.0 N MIN. 62P: 6.6 N 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
INSTRUCTION MANUAL	HIM-15020
APPEARANCE CRITERIA No.	QLS-A***

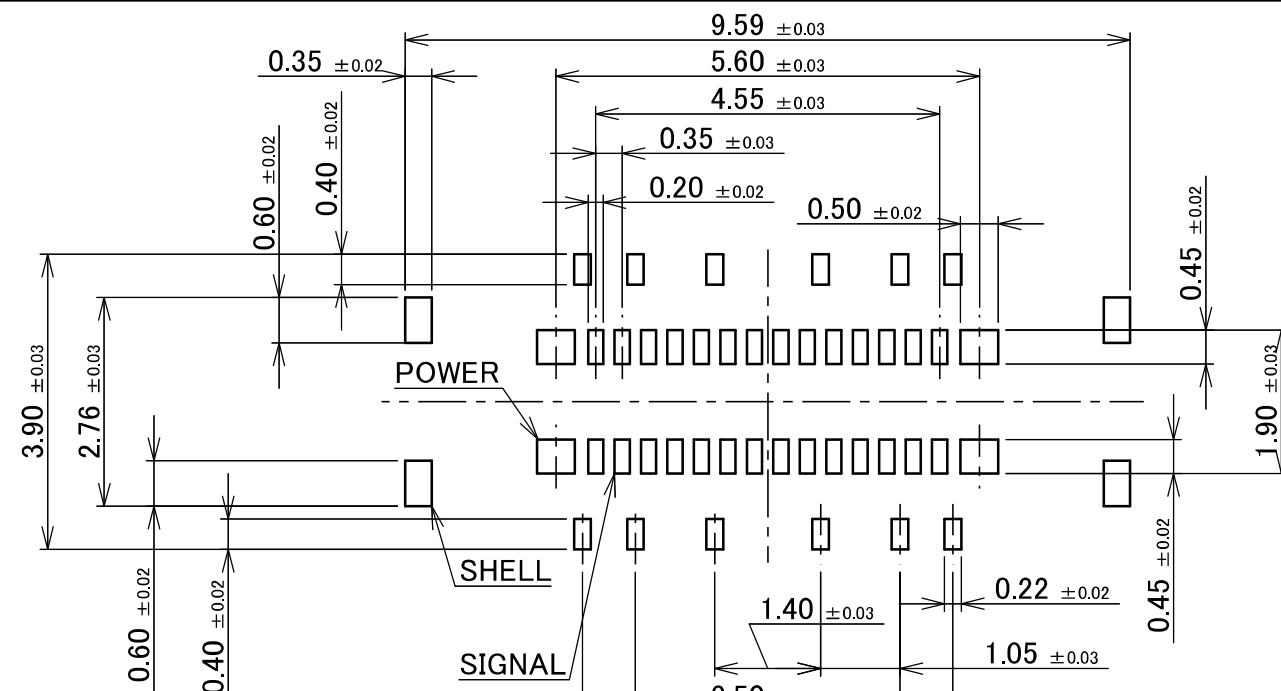
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE 10:1 UNIT mm	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No. 20697	SIZE A3	SHEET 3/9	REV. 12	



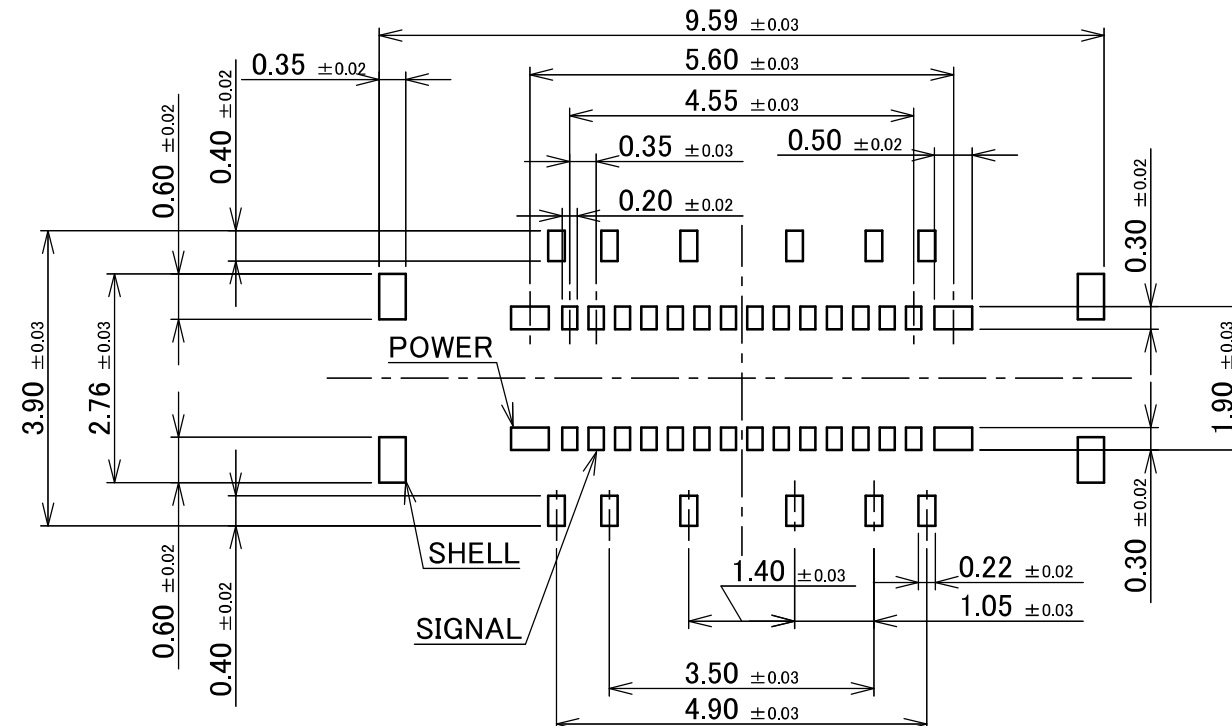
RECOMMENDED PATTERN LAYOUT (16P)



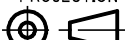
RECOMMENDED METAL MASK LAYOUT (16P)
THICKNESS : t=0.10 mm

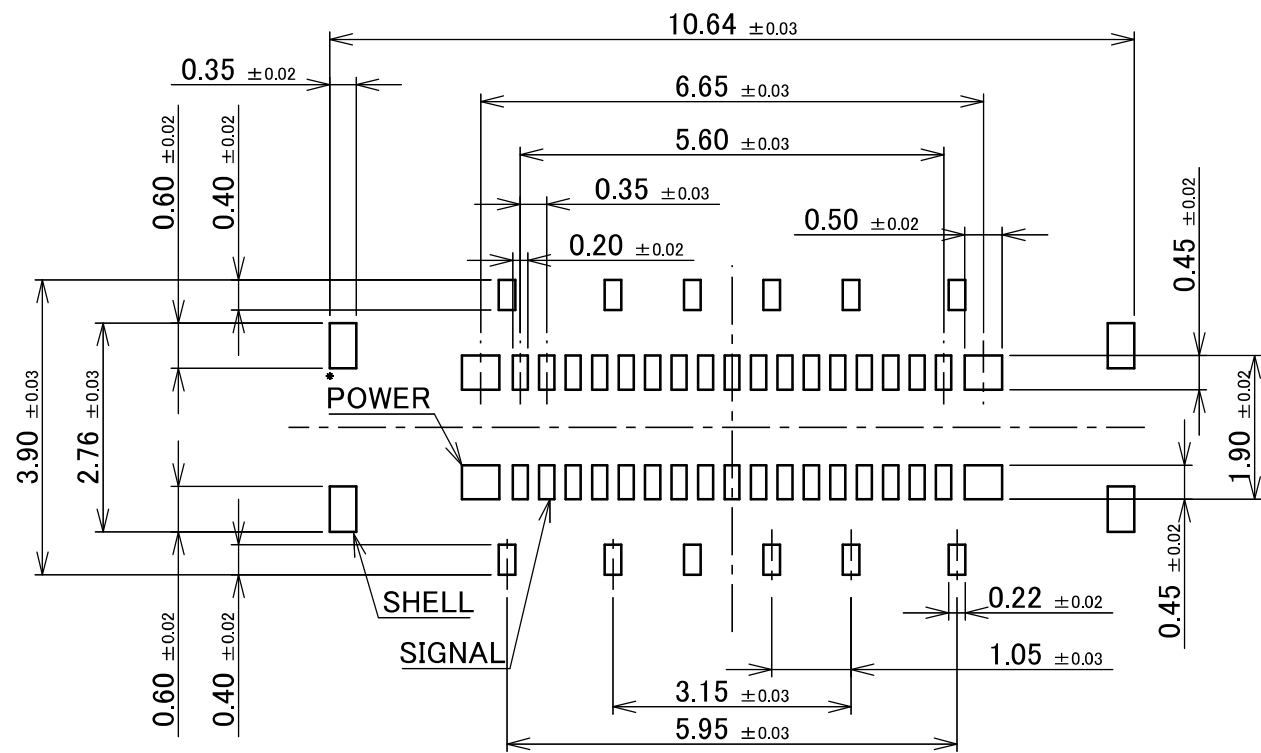


RECOMMENDED PATTERN LAYOUT (28P)

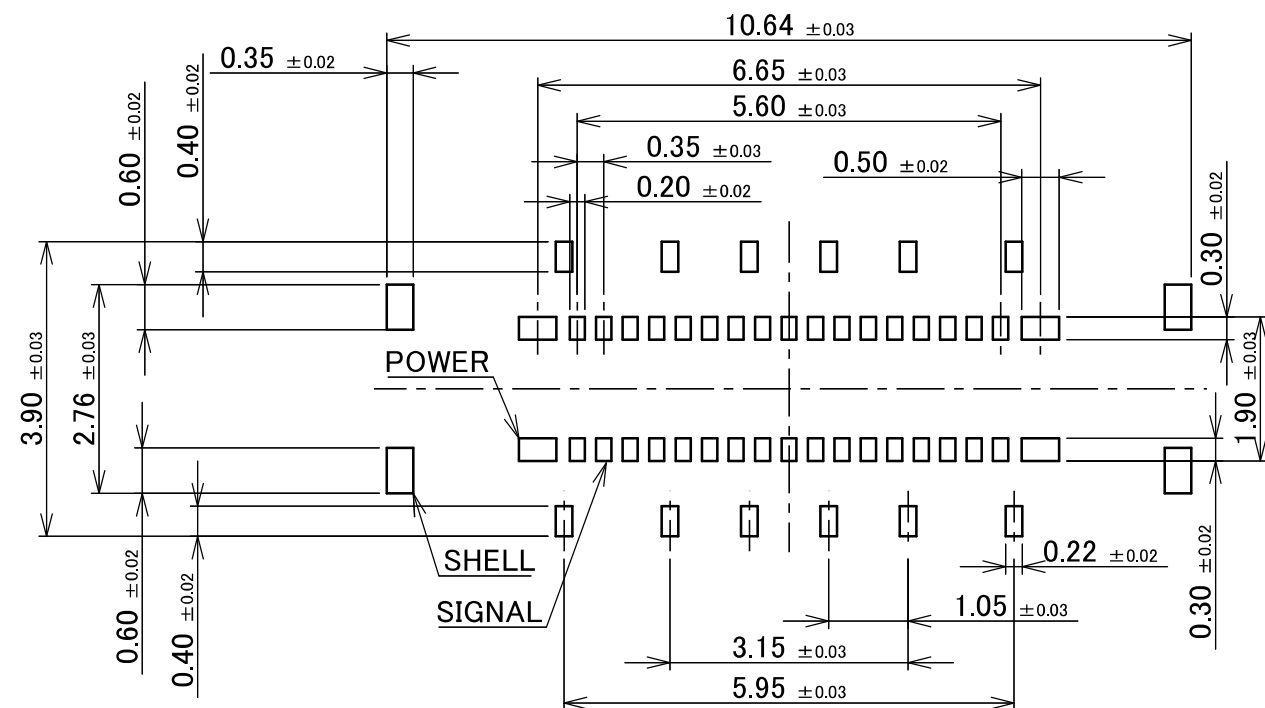


RECOMMENDED METAL MASK LAYOUT (28P)
THICKNESS : t=0.10 mm

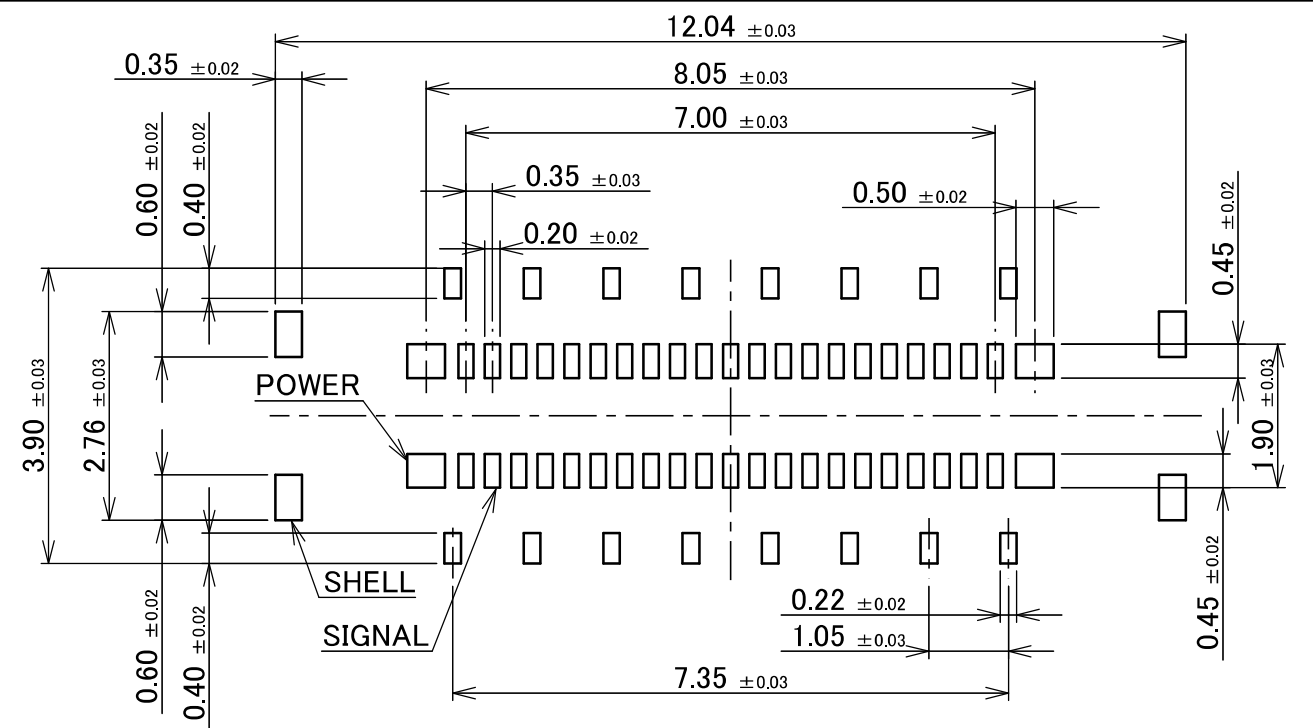
ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					10:1		
CHK.						UNIT		
			mm					
APP.				DWG. No. 20697		SIZE	SHEET	REV.
						A3	4/9	12



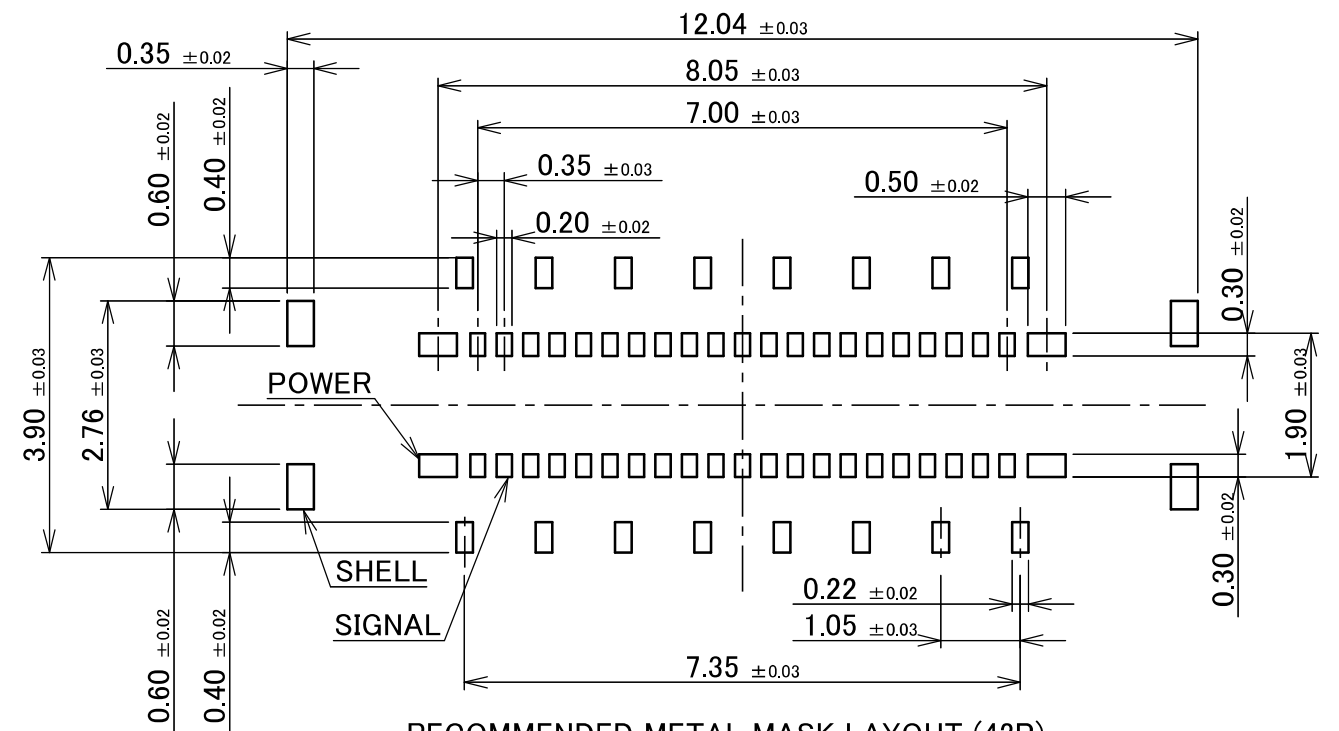
RECOMMENDED PATTERN LAYOUT (34P)



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

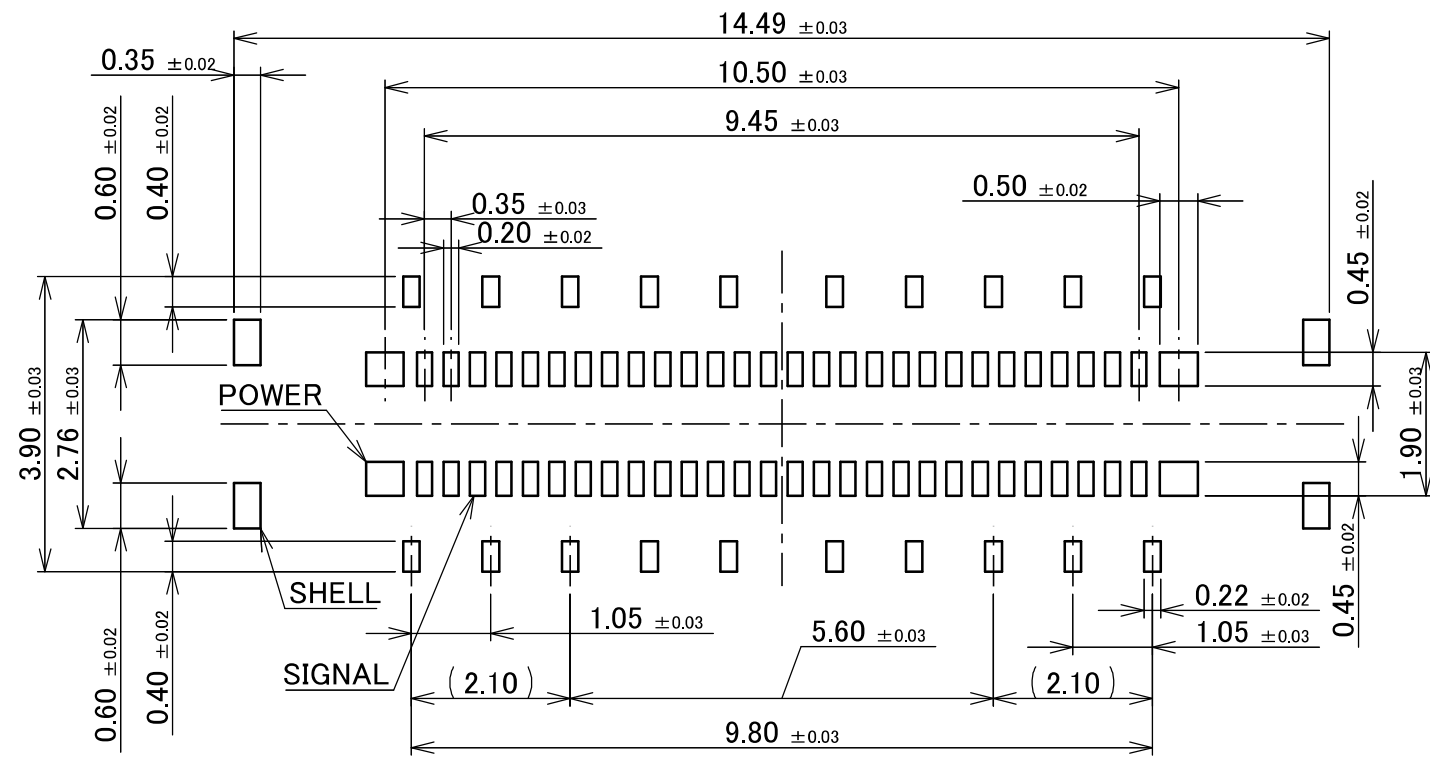


RECOMMENDED PATTERN LAYOUT (42P)

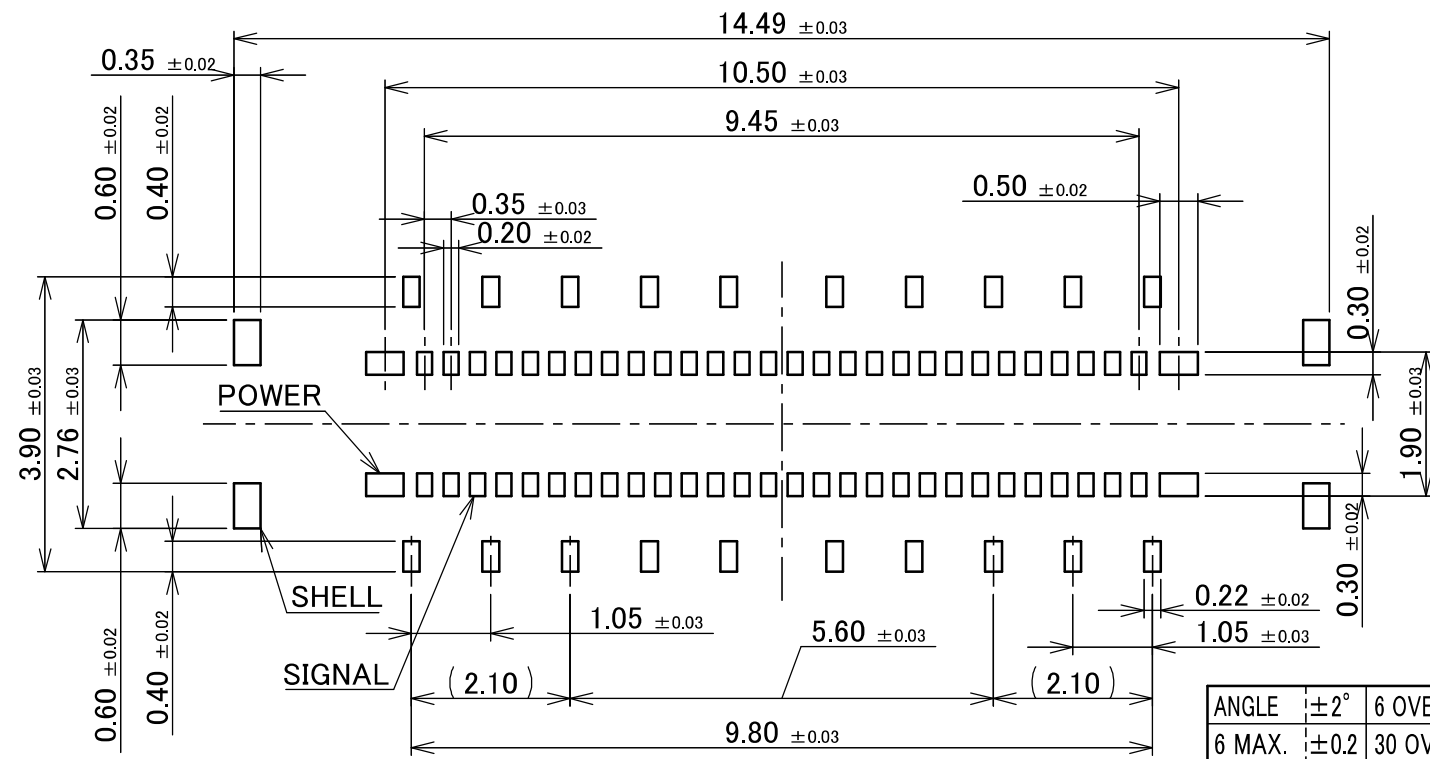


RECOMMENDED METAL MASK LAYOUT (42P)
THICKNESS : t=0.10 mm

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 NOVASTACK® 35-HDP PLUG ASSEMBLY	SCALE 10:1 UNIT mm	I-PEX		
DWG.		DATE						
CHK.								
APP.								
				DWG. No. 20697	SIZE A3	SHEET 5/9	REV. 12	



RECOMMENDED PATTERN LAYOUT (56P)



RECOMMENDED METAL MASK LAYOUT (56P)
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 NOVASTACK® 35-HDP PLUG ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					10:1		
CHK.						UNIT		
						mm		
APP.				DWG. No.	20697	SIZE	SHEET	REV.
						A3	6/9	12

PART No.	SIGNAL POS.	POWER POS.	F
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

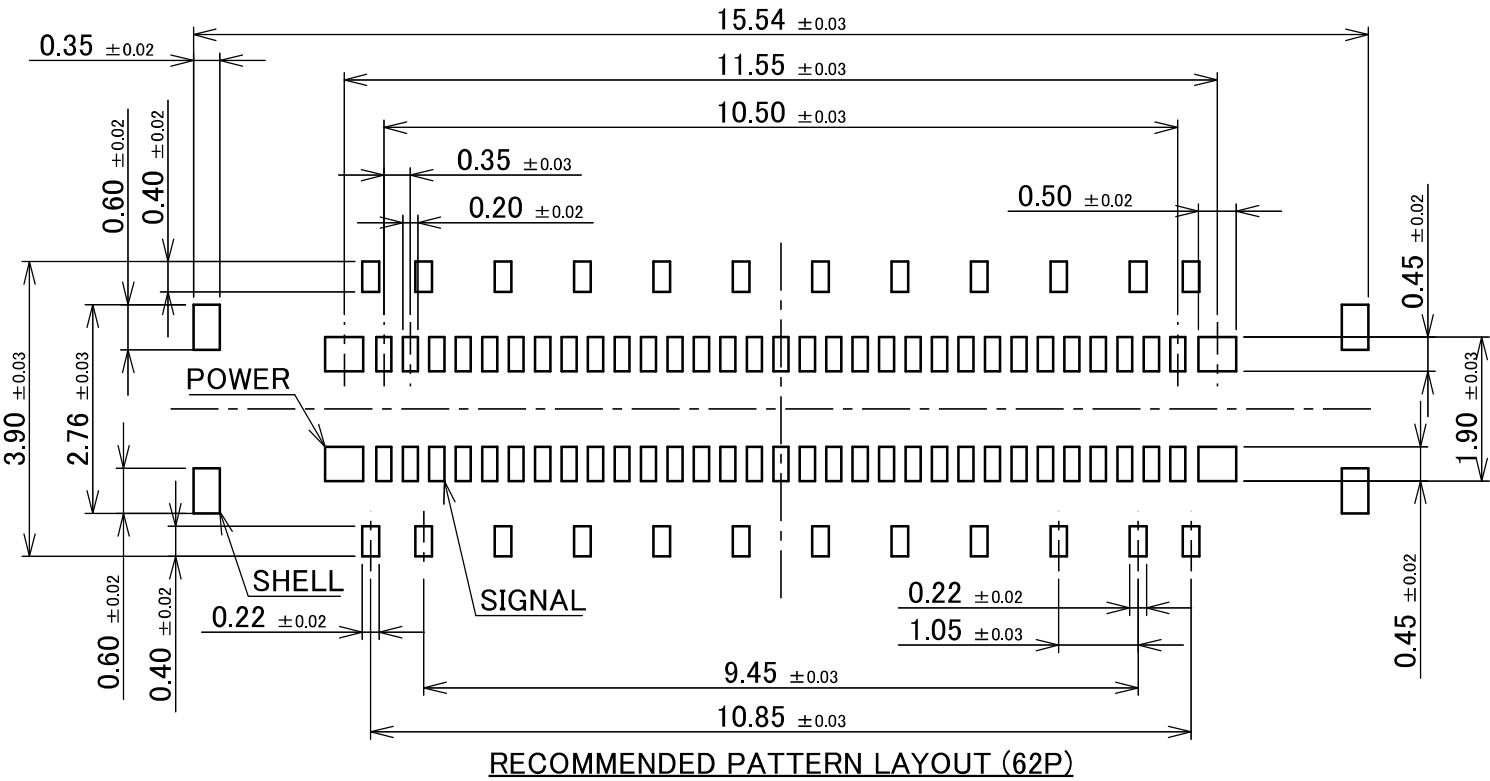
20697-0**E-01-P

HOUSING MATERIAL

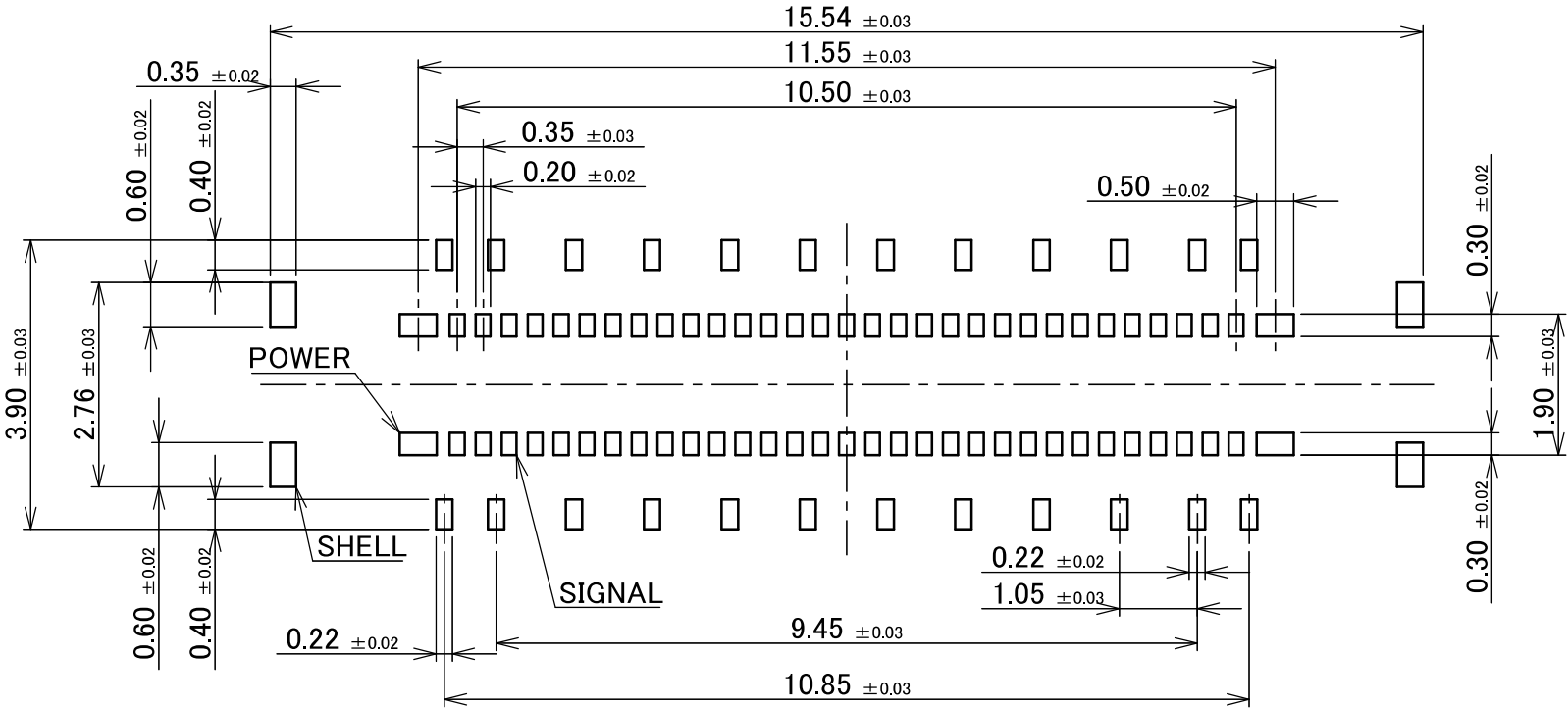
WITHOUT : LCP, UL94-0, BLACK

WITH : LCP, UL94-0, BLACK (PFAS FREE)

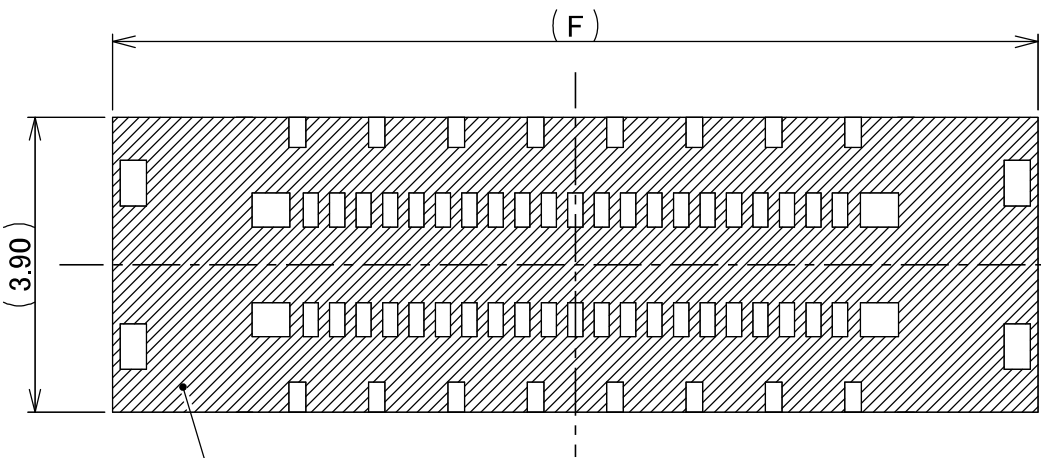
Pos.



RECOMMENDED PATTERN LAYOUT (62P)



RECOMMENDED METAL MASK LAYOUT (62P)
THICKNESS : t=0.10 mm

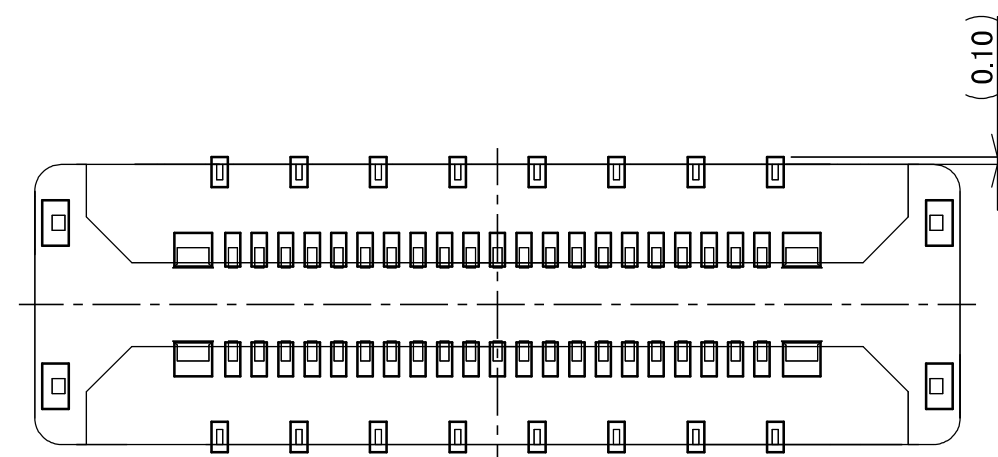


NOTE. 1

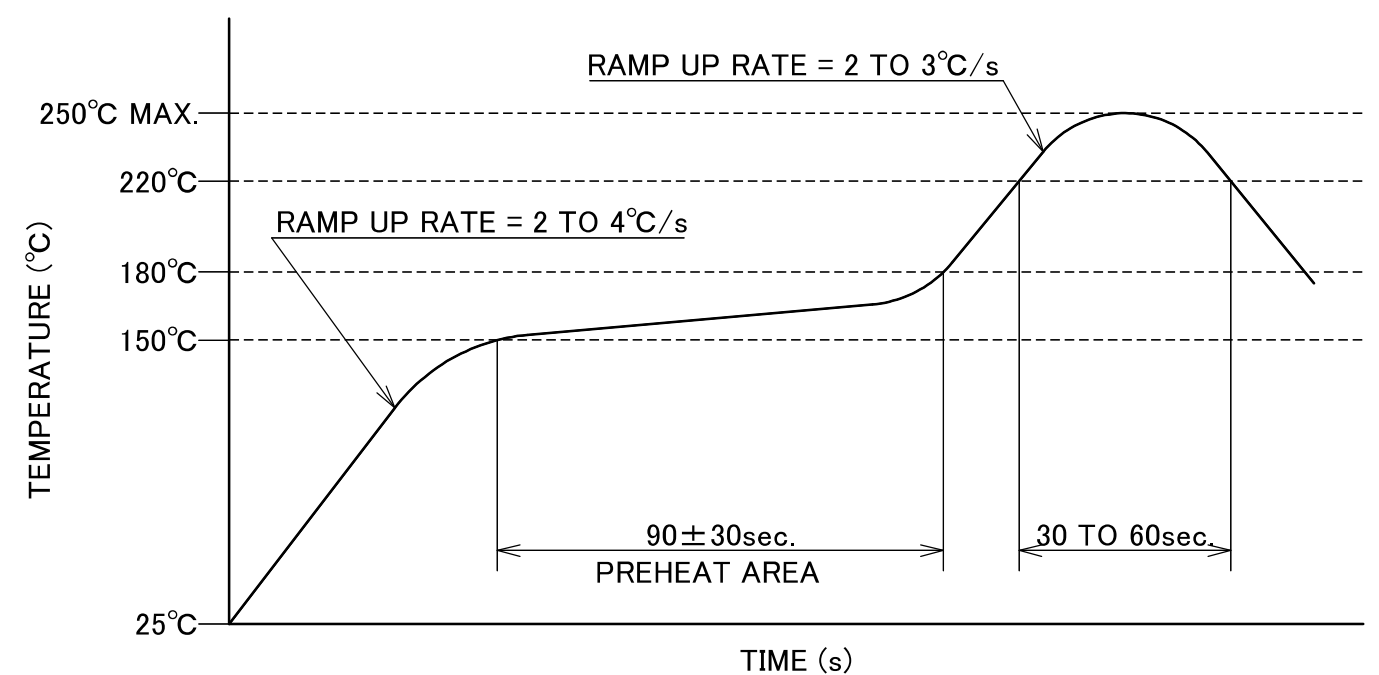
NOTES.

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		R1			
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY		SCALE		
DWG.	DATE					10:1		
CHK.						UNIT		
			mm					
APP.				DWG. No.	20697	SIZE	SHEET	REV.
						A3	7/9	12



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		SERIES No. R1	CUSTOMER COPY			
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5						
GENERAL TOLERANCE.				TITLE NOVASTACK® 35-HDP PLUG ASSEMBLY		SCALE			
DWG.	DATE					10:1			
CHK.						UNIT			
						mm			
APP.				DWG. No.	20697	SIZE	SHEET	REV.	
						A3	8/9	12	

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		

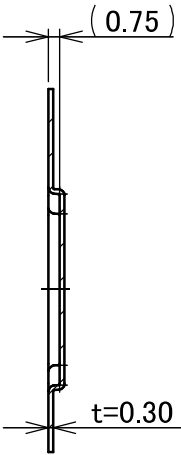
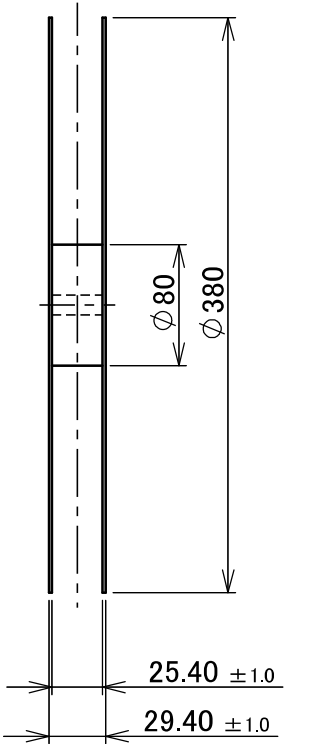
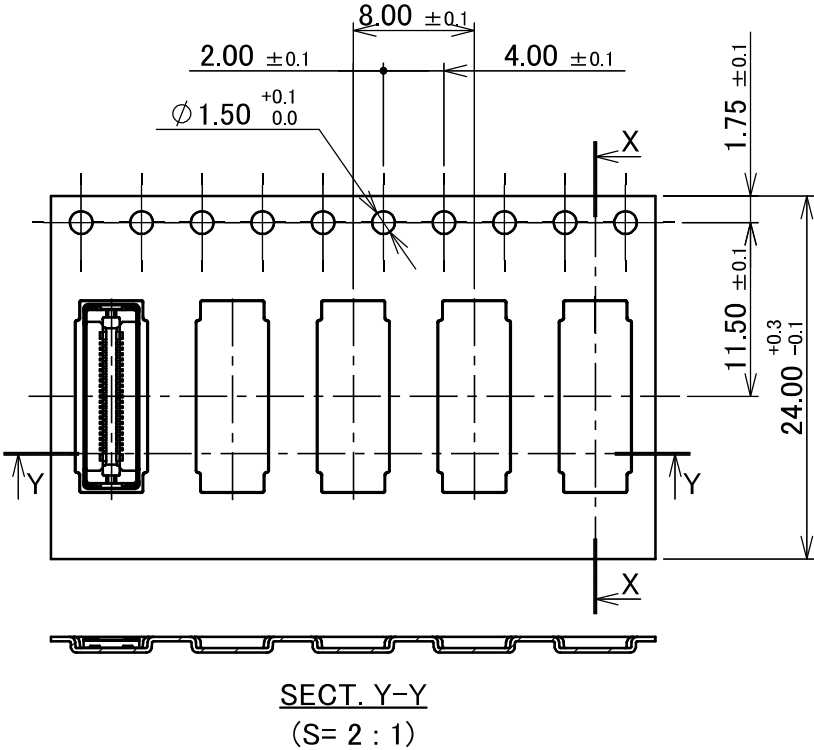
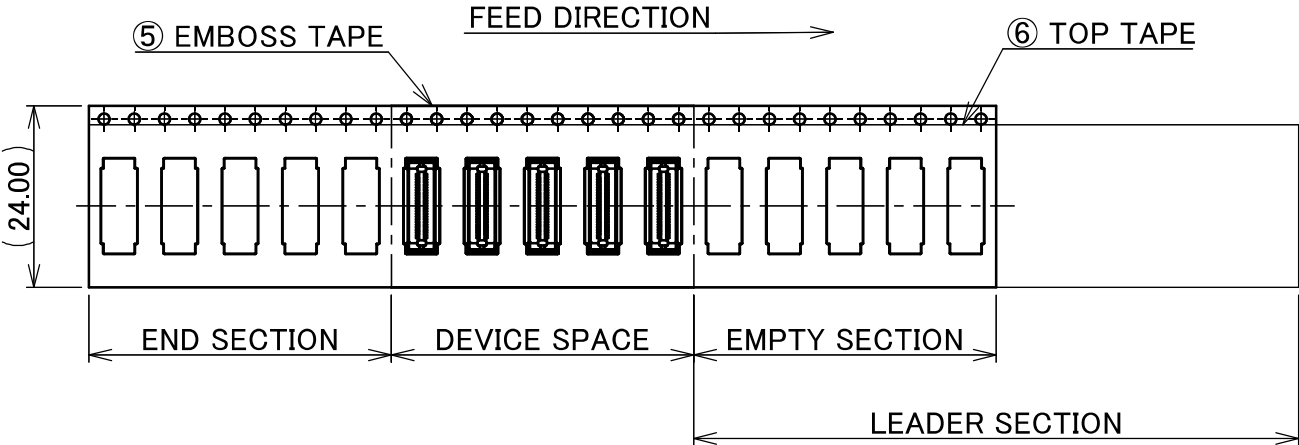
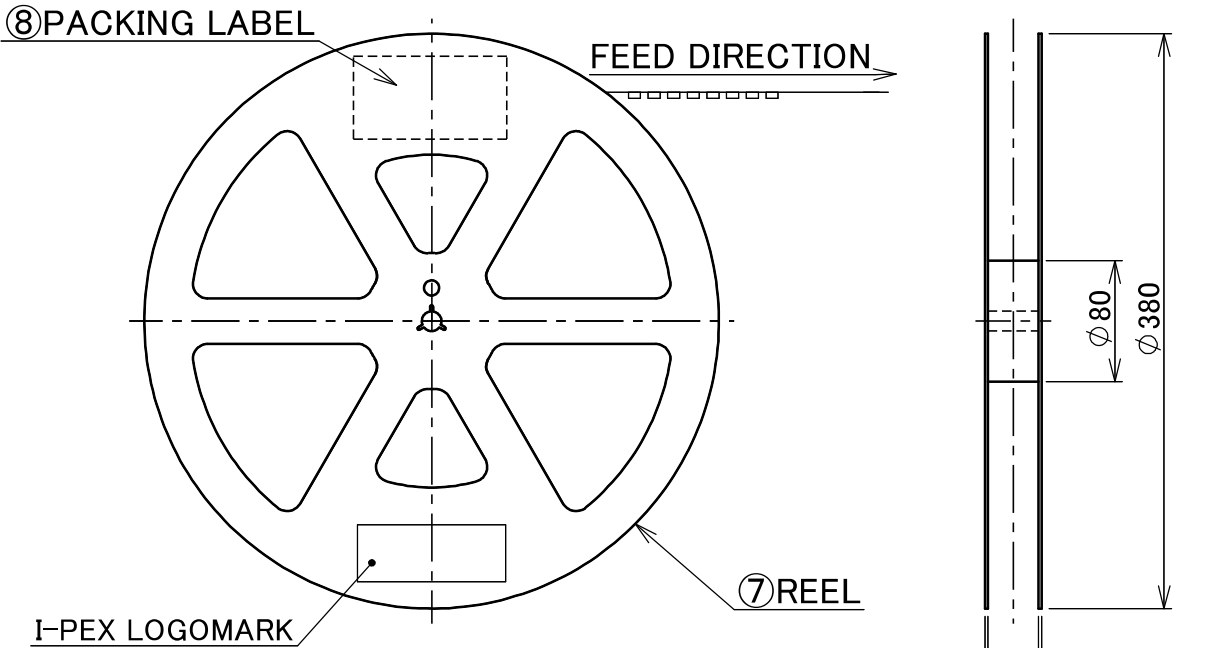
20697-0**E-01-P

HOUSING MATERIAL

WITHOUT : LCP, UL94-0, BLACK

WITH : LCP, UL94-0, BLACK (PFAS FREE)

Pos.



SECT. X-X
(S= 2 : 1)

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

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

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	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.		SIZE	SHEET	REV.
				20697		A3	9/9	12