

NOVASTACK® 35-HDP

高速 (20+ Gbps/lane) 全屏蔽式帶電力端子, 0.35 mm 間距, 高度: 0.7 mm

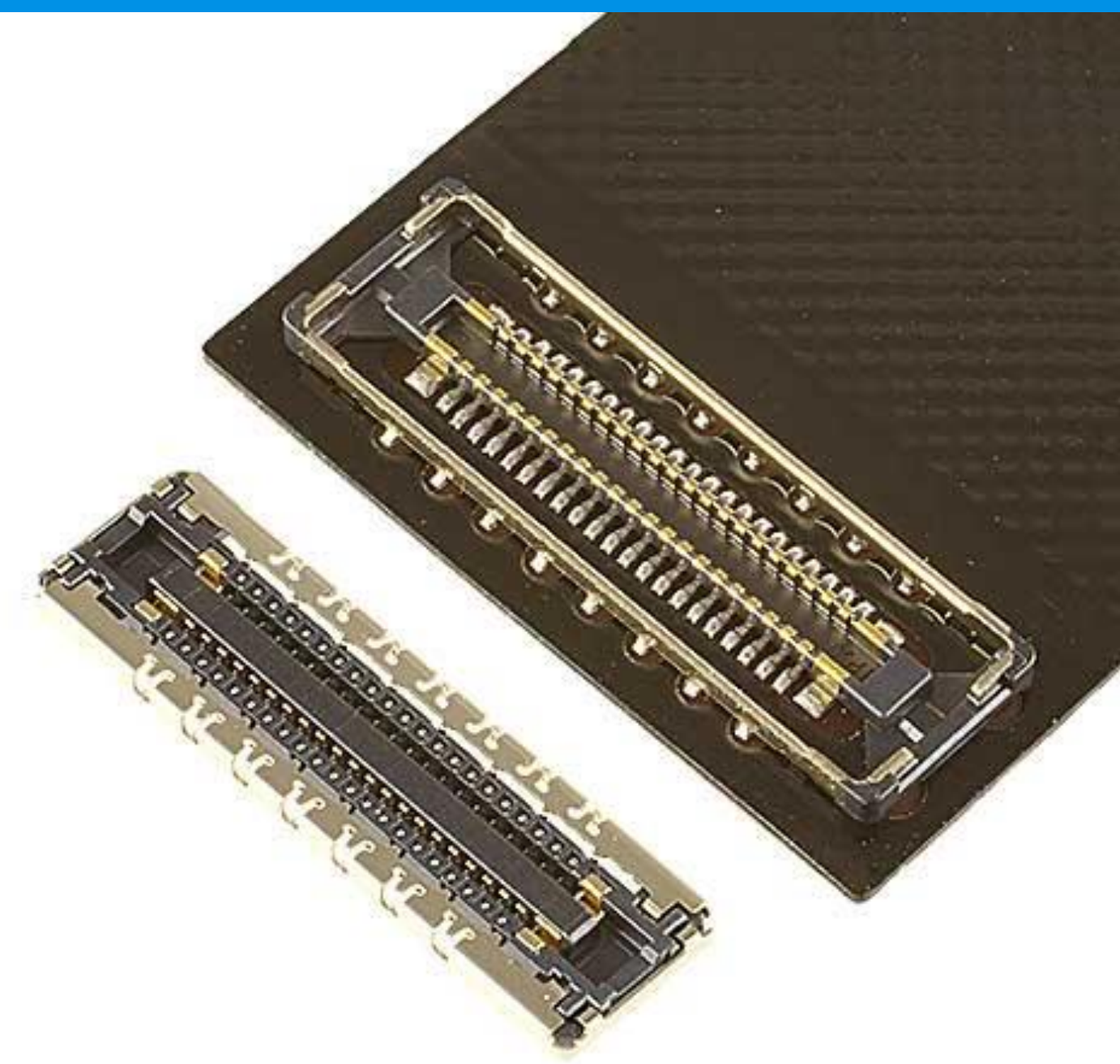
Product Specifications:

Board Pitch (mm)		0.35
Wiping Length (mm)		Signal contact : 0.11, Power contact : 0.13
Mated Size (mm)	Height	0.7 +/- 0.05
	Width	Formula: $4.89 + (0.35 * p/2)$
	Depth	3.7
Current Rating	Signal	0.3 A/pin
	Power	2.2 A/pin x 4
Pin Counts	Range	6 - 76 (signal) + 4 (power)
	Available	16, 28, 34, 42, 56, 62 +/- 4

Applicable Standards (Reference Only):

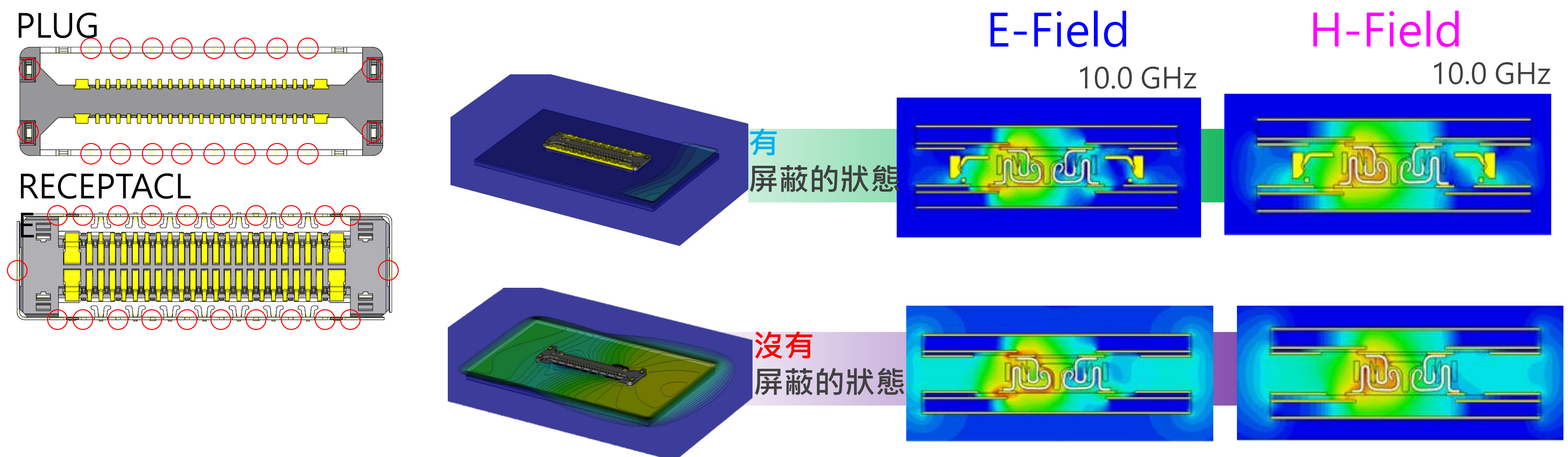
USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps)
eDP HBR 3 (8.1 Gbps) eDP HBR 2 (5.4 Gbps)
HDMI 2.0 (6 Gbps) V-By-One HS 1.4 (4 Gbps)
MiPi standards

*若有規格外 Pin 數需求, 請與當地負責業務窗口聯繫。

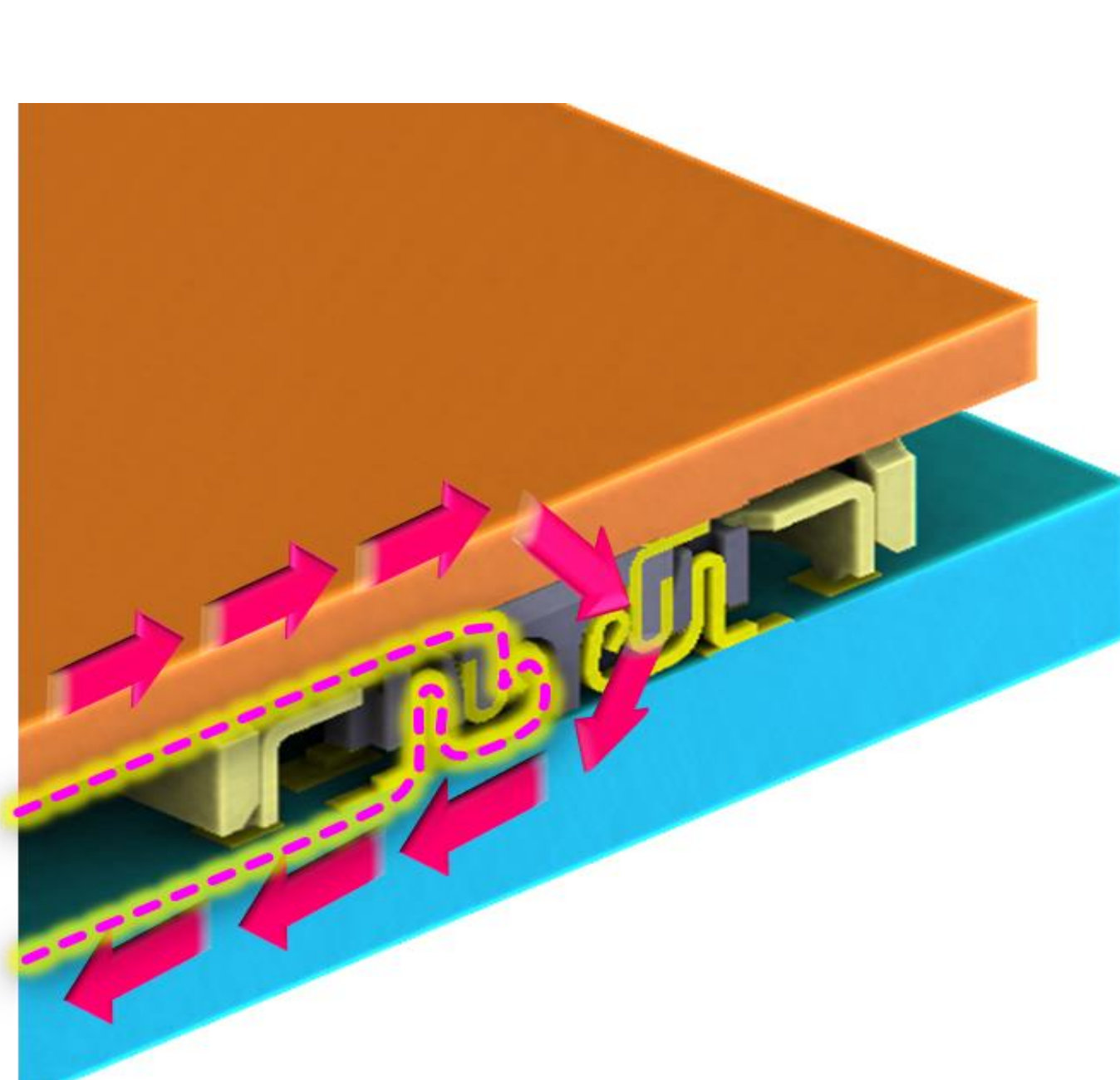


► ZenShield® 的全屏蔽設計和多點接地，有效防止 EMI 外泄

○ Ground SMT points

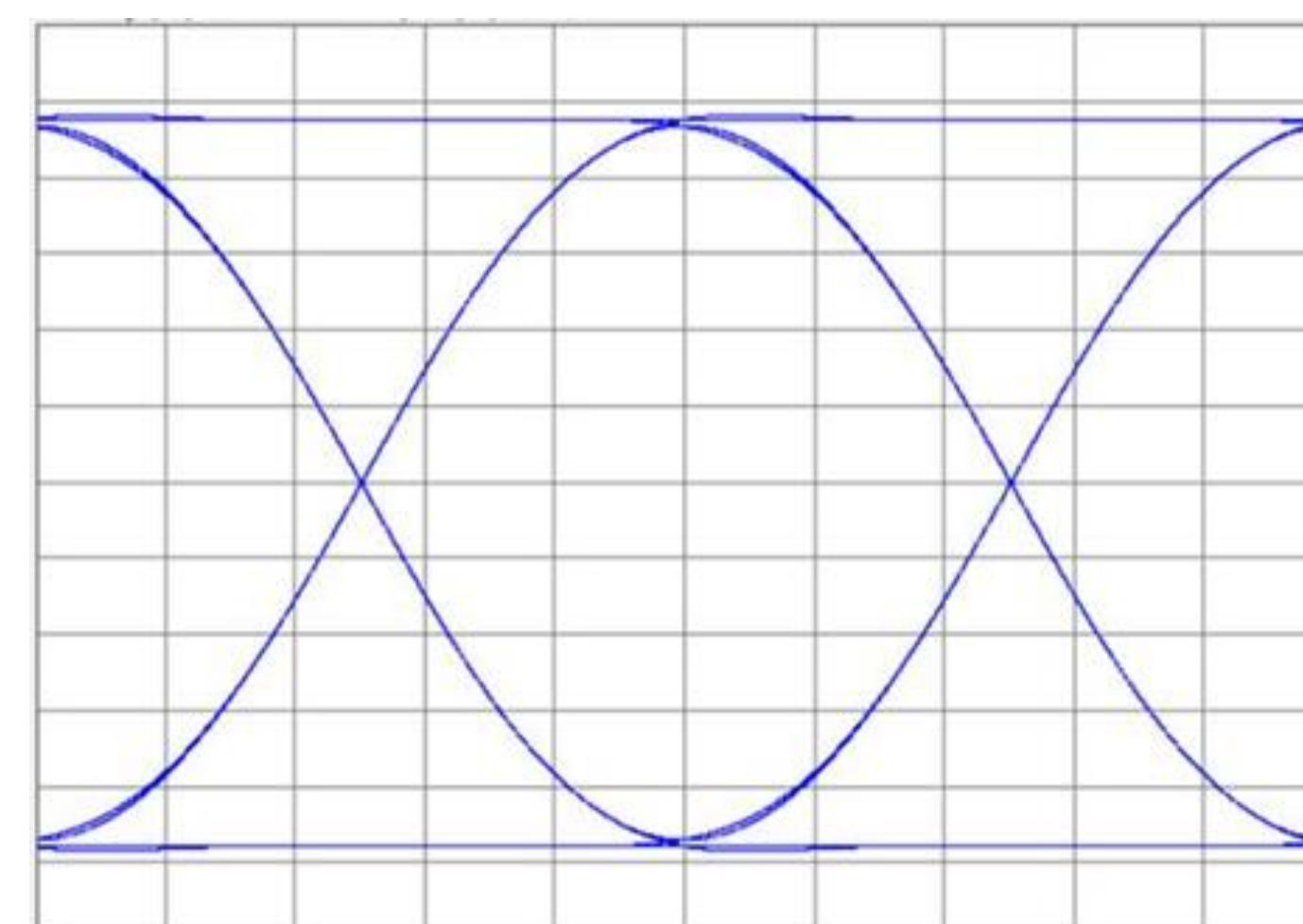


► 高速率傳輸, USB4 / Thunderbolt 4 (20+ Gbps/lane)應用的理想之選



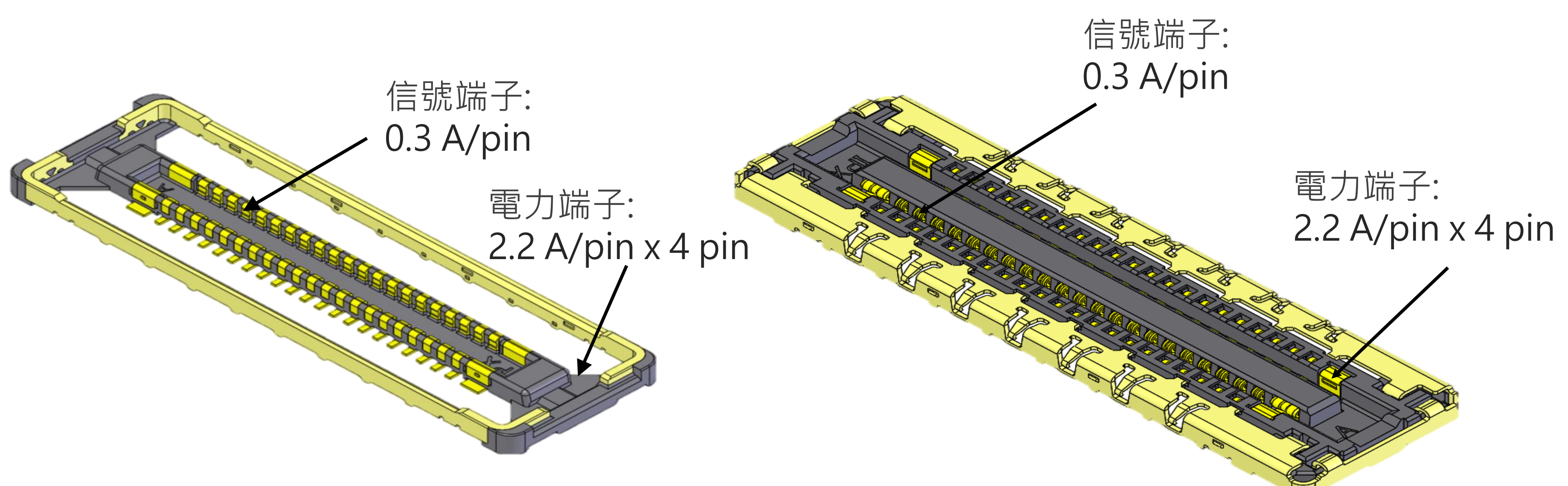
*Please contact I-PEX for more test details.

眼圖



Bit rate : 25 Gbps
Rise time : 20 ps (10-90%)
Input voltage : 800 mVp-p

► 2.2 A 電力 pin x 4 用於電力傳輸

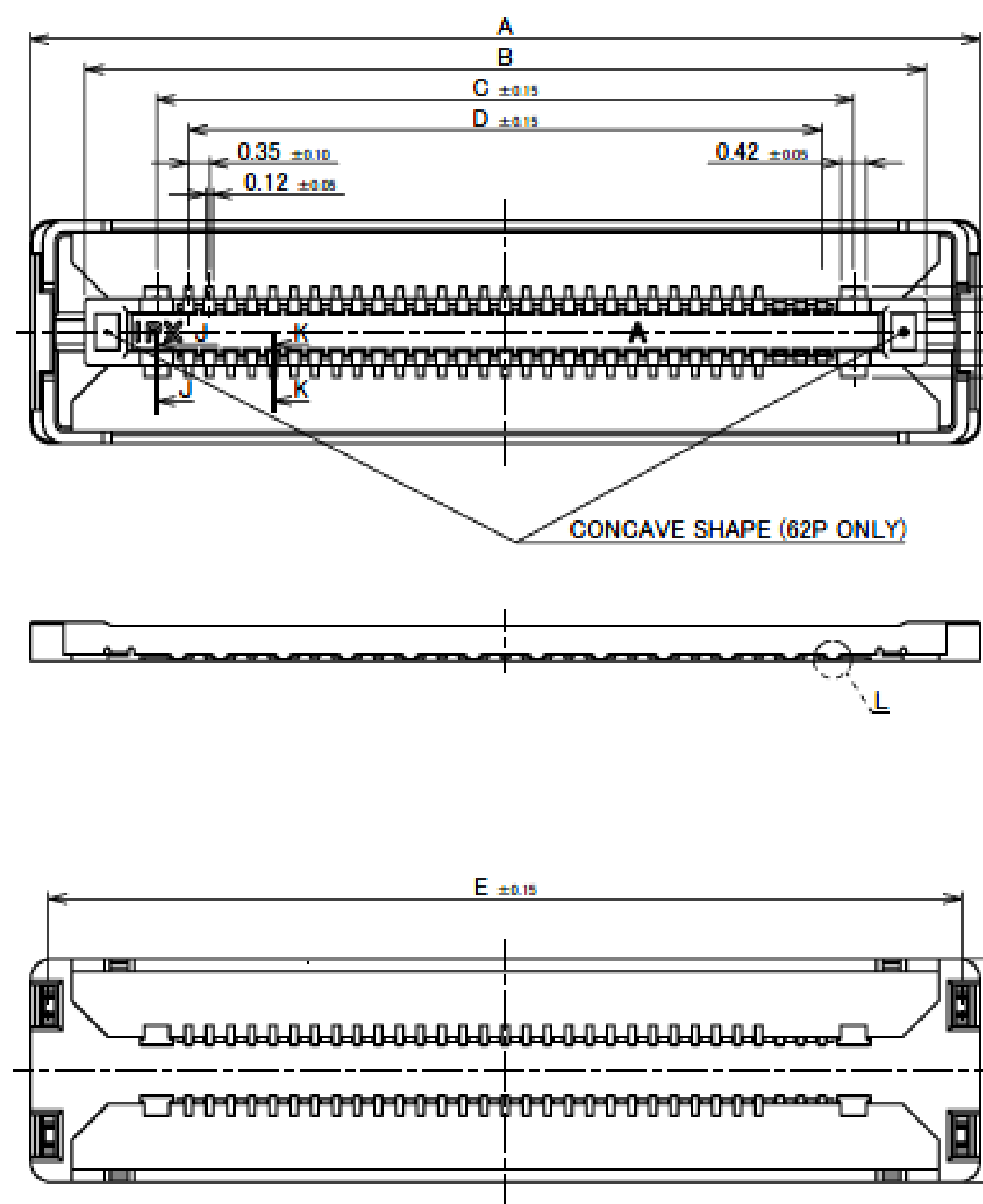


Component Parts Detail

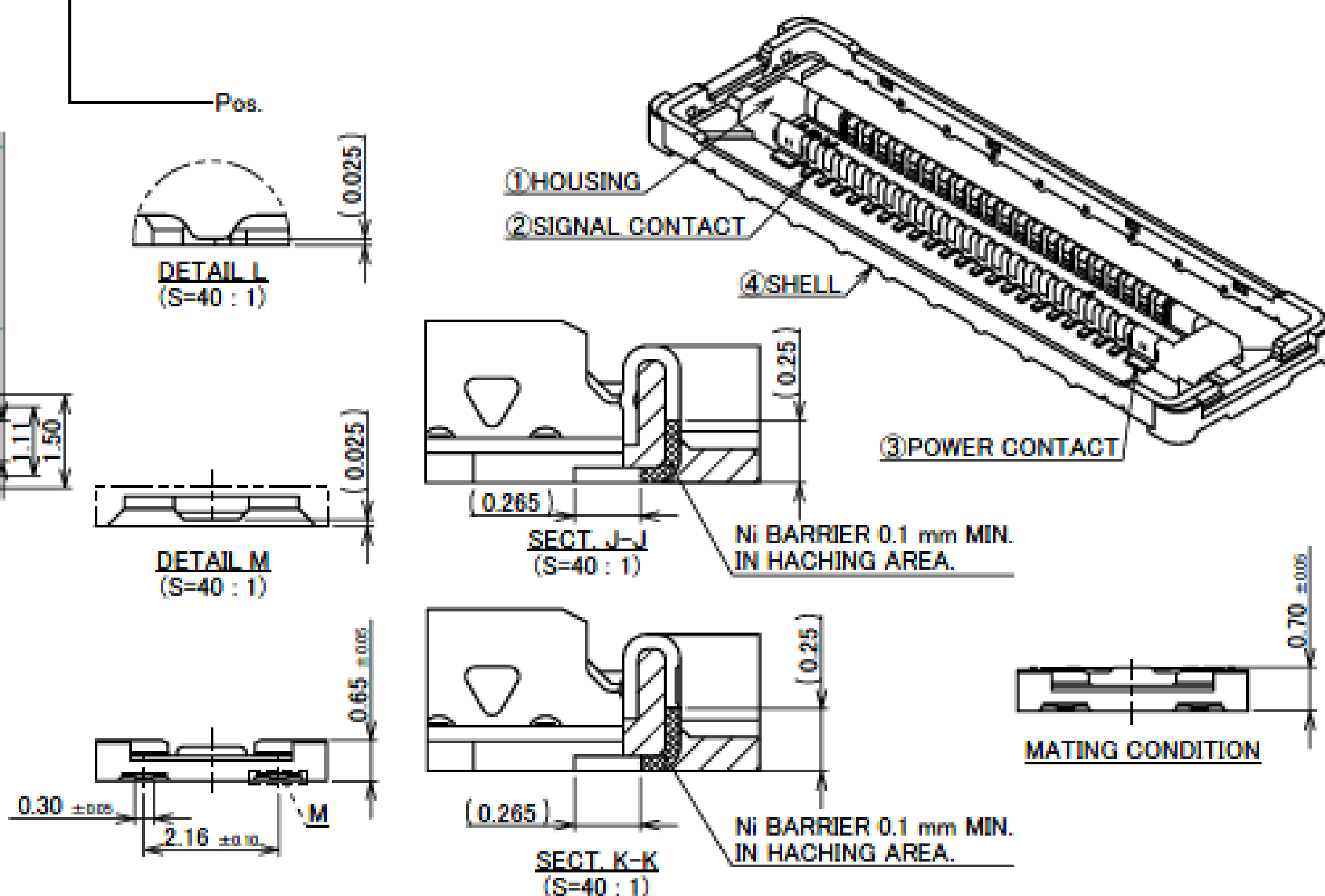
Plug Assembly

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)



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

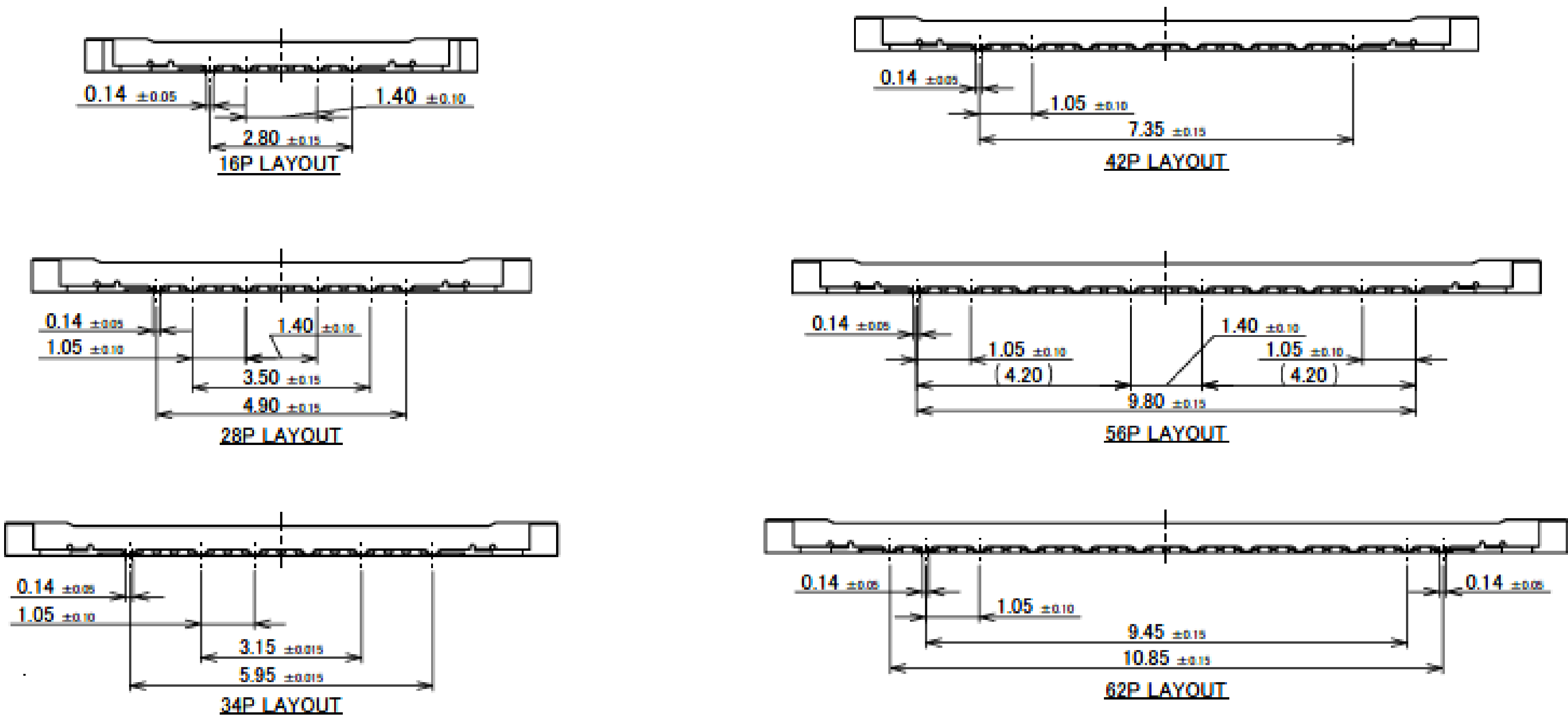
Plug Assembly

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

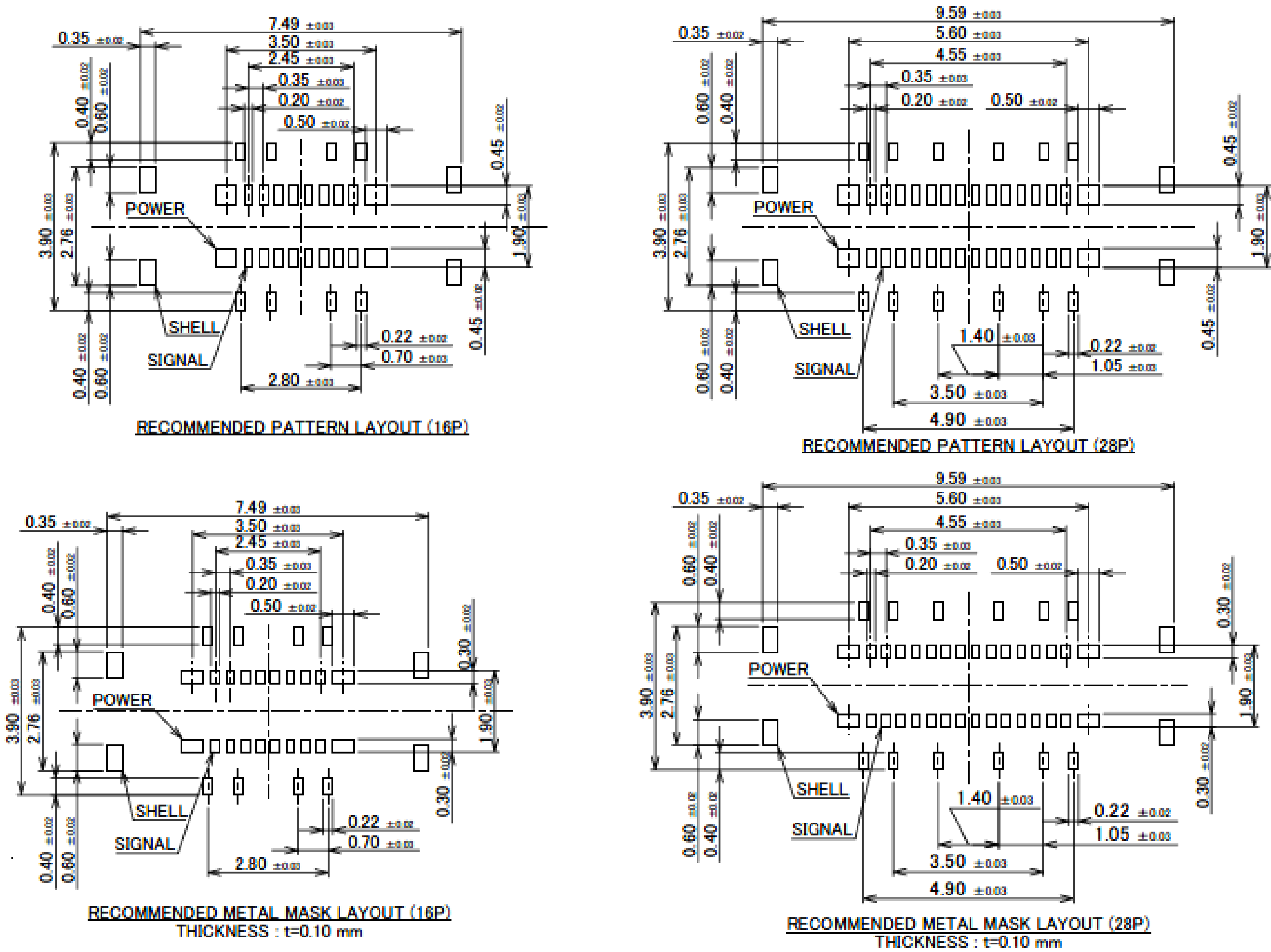
20697-0**E-01-P

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

Pos.



Rev.10

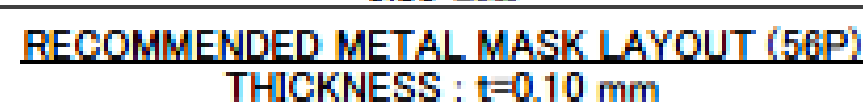


Rev.10

Plug Assembly



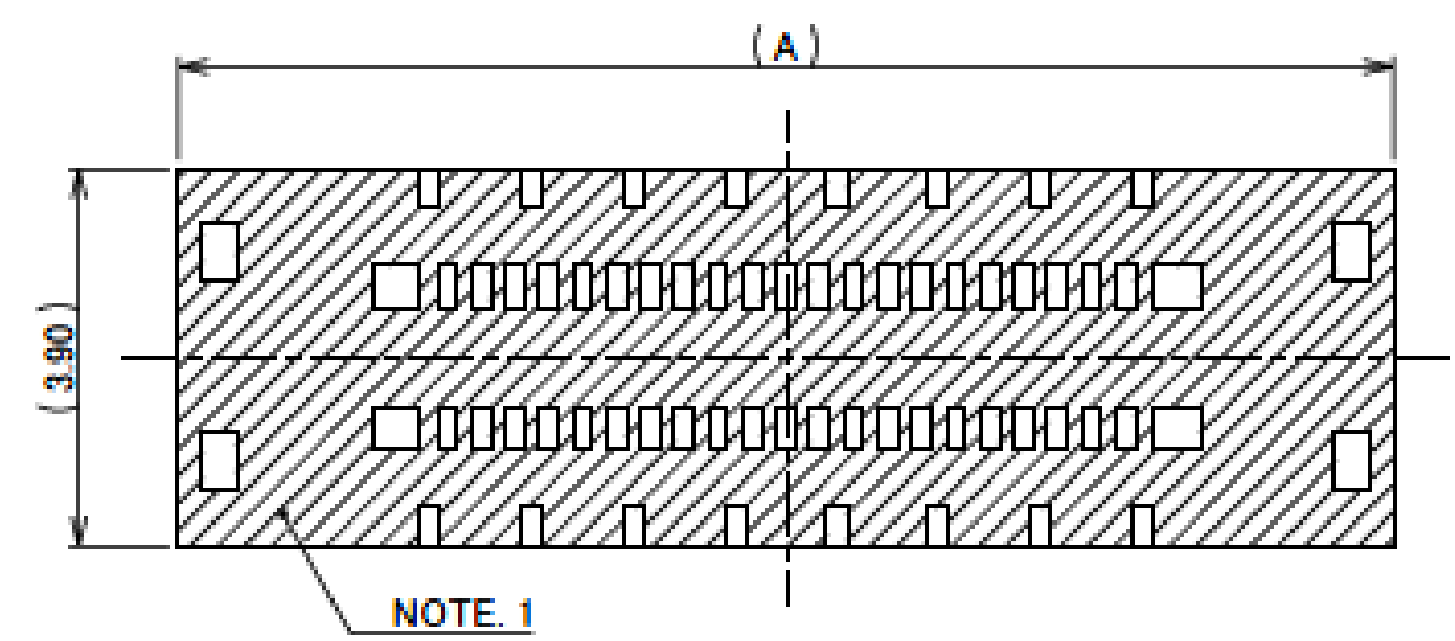
Rev.10



Rev.10

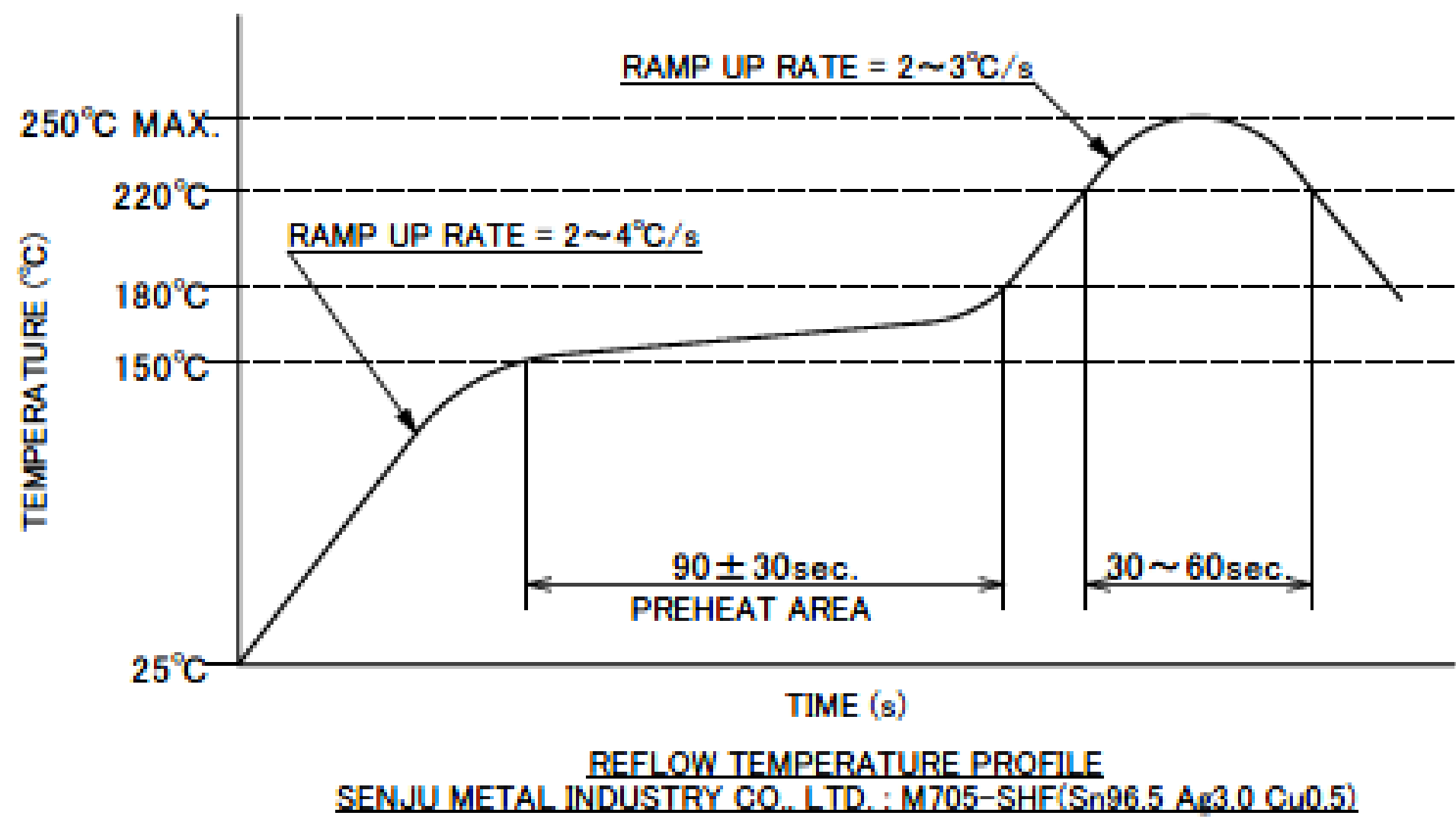
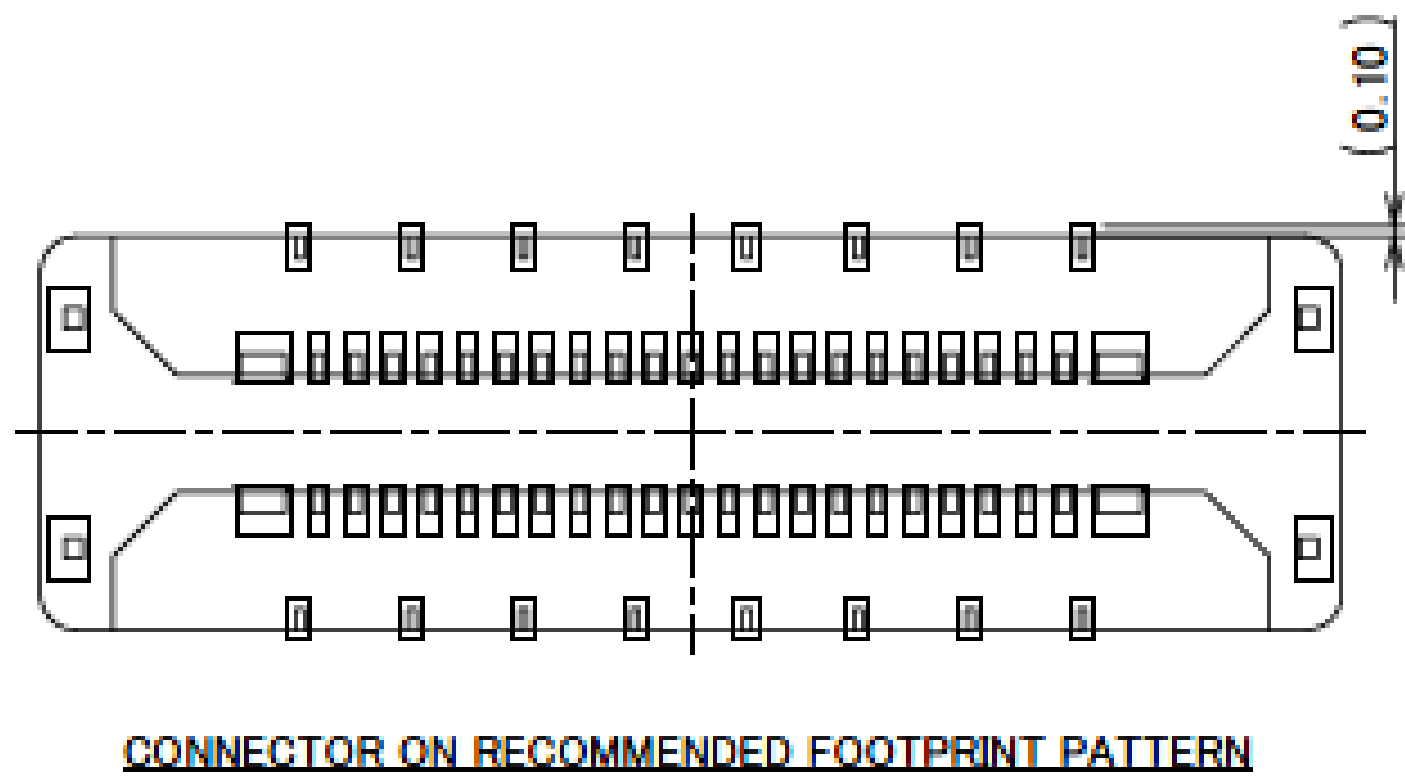
Plug Assembly

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.

Rev.10



Rev.10

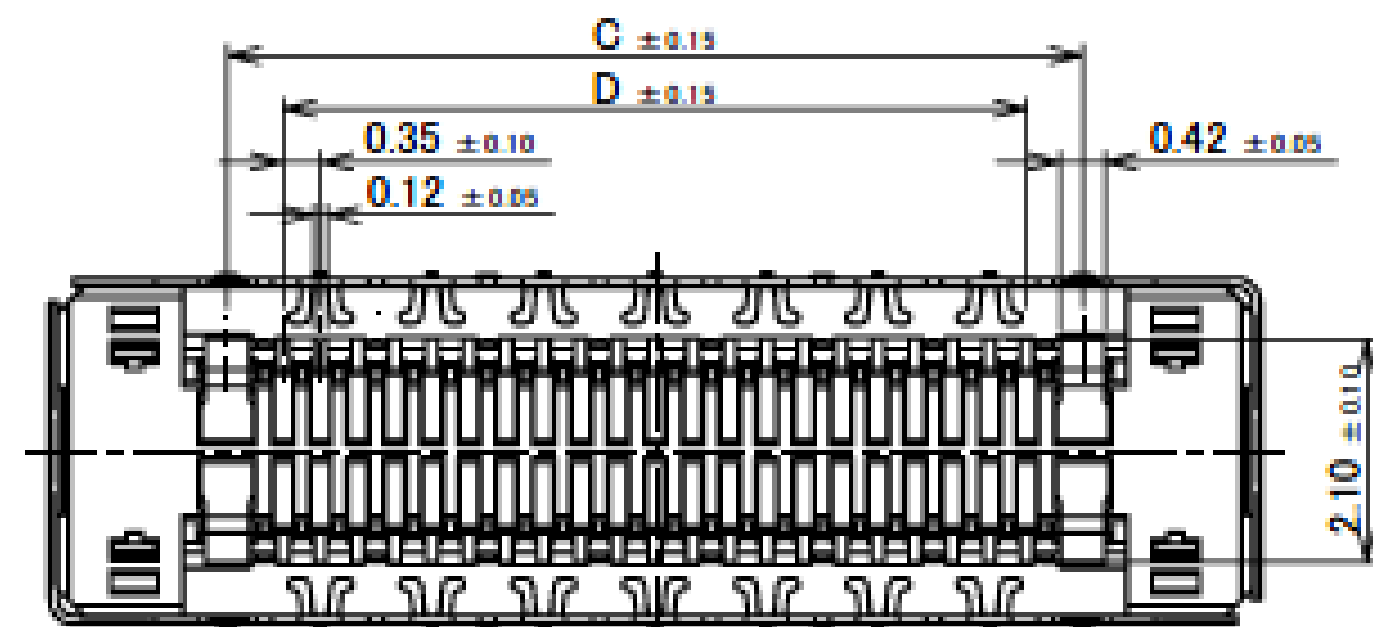
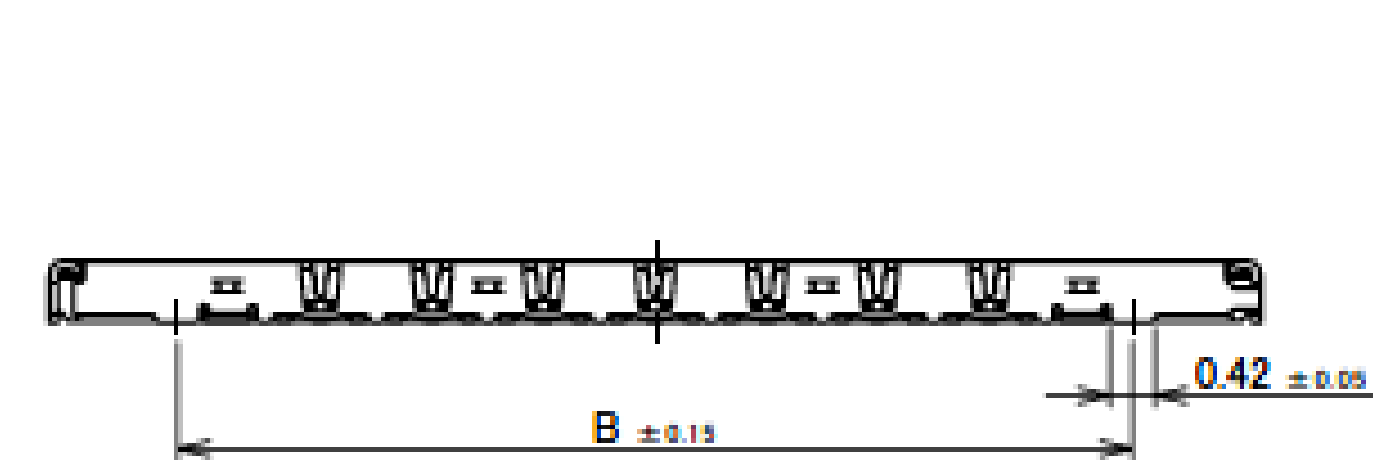
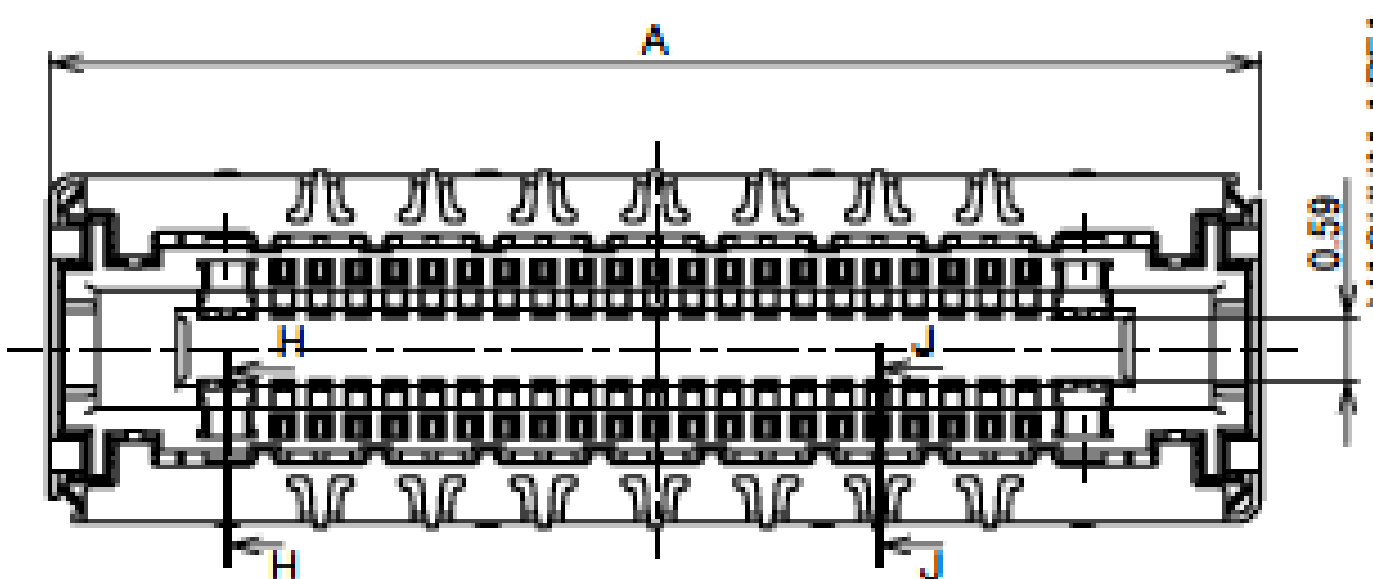
Plug Assembly

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***

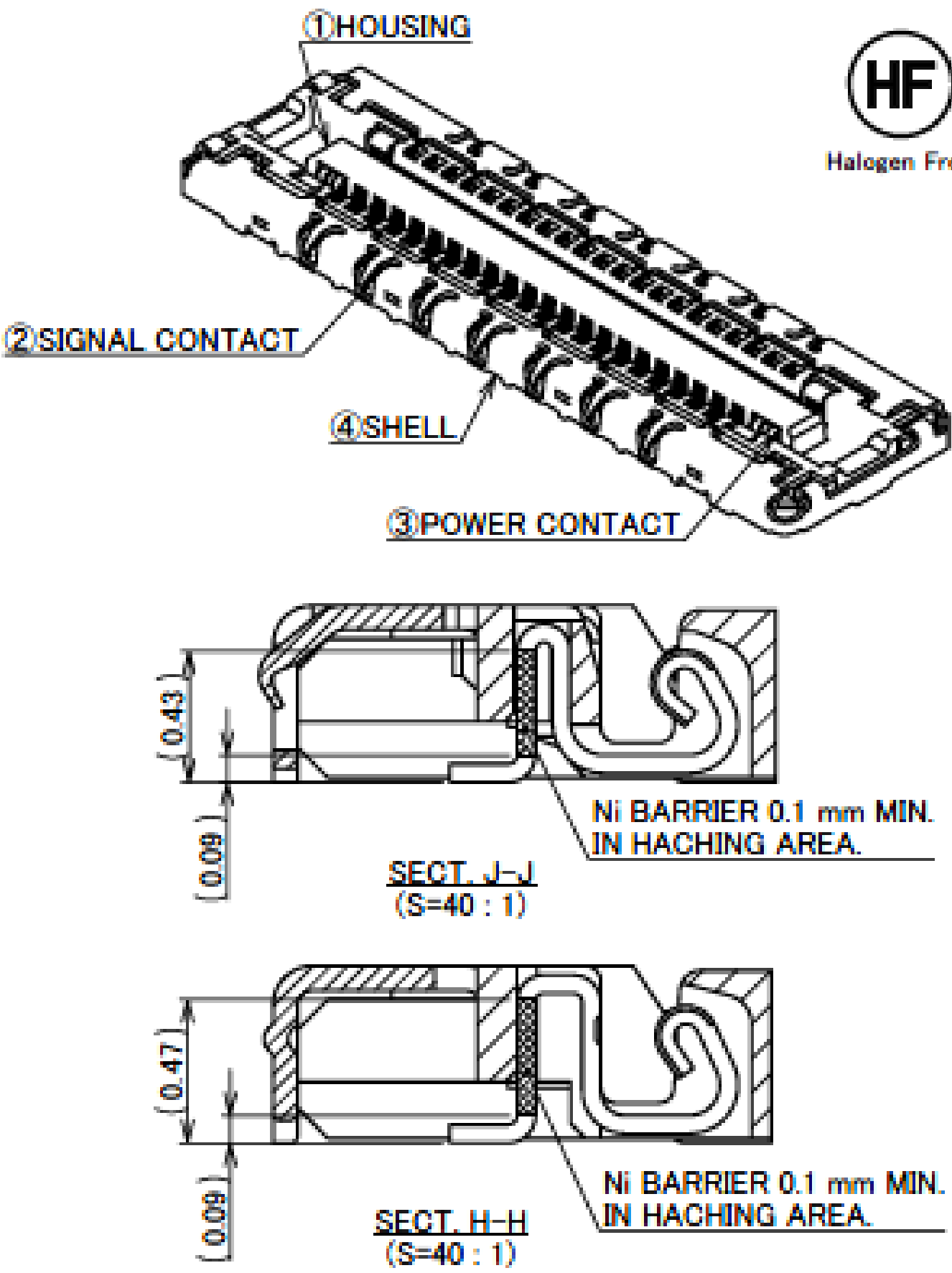
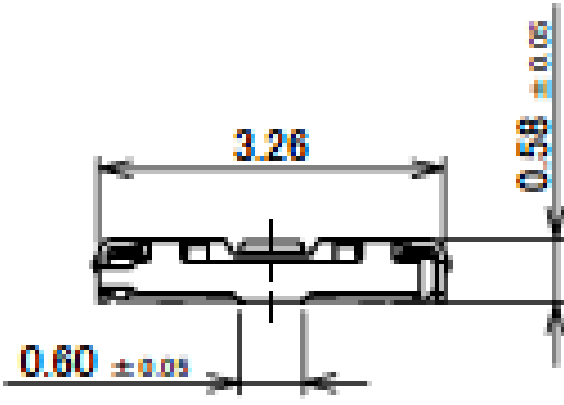
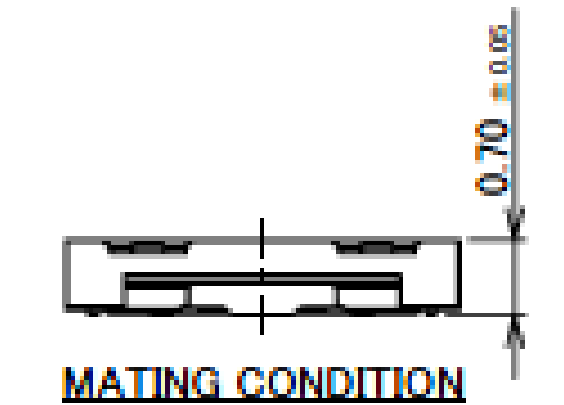
Rev.10

Receptacle Assembly

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.



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
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

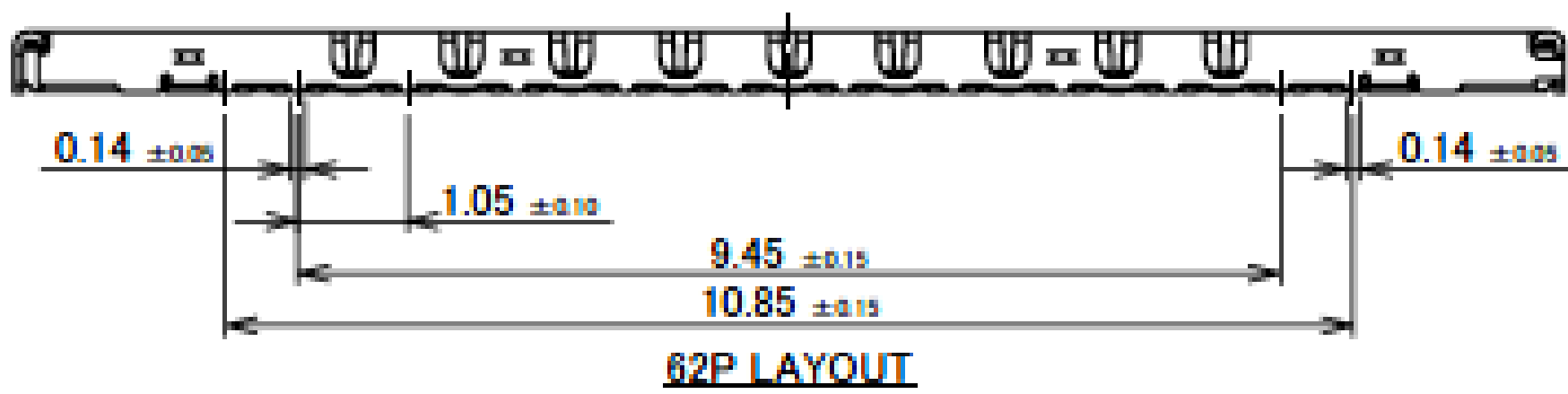
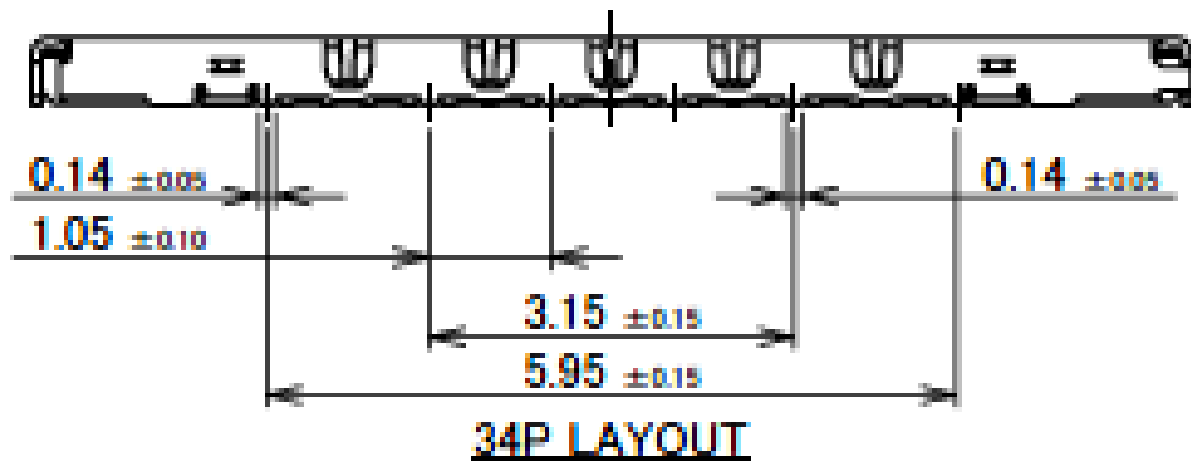
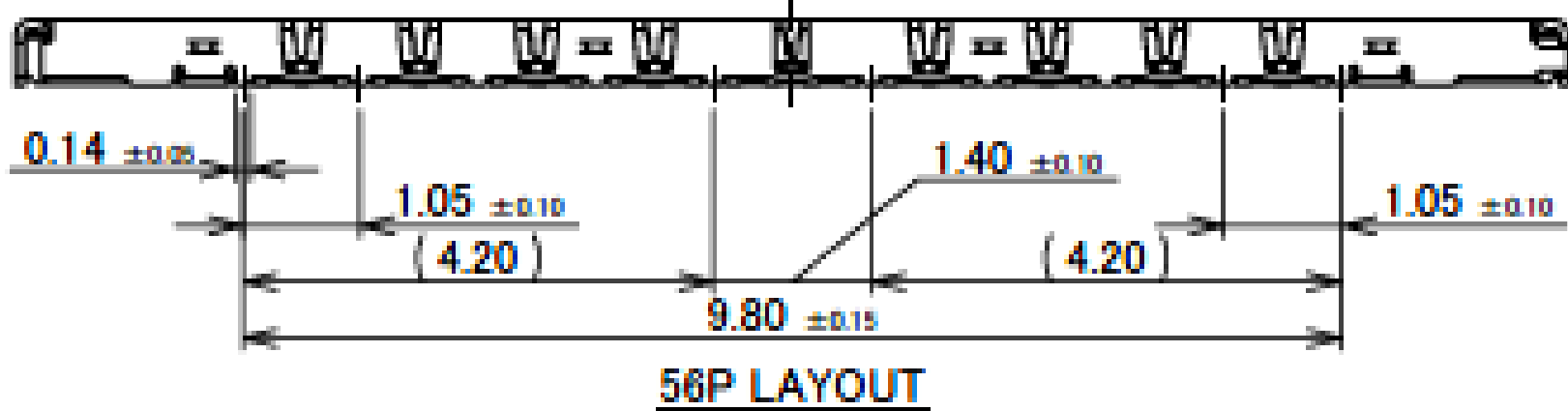
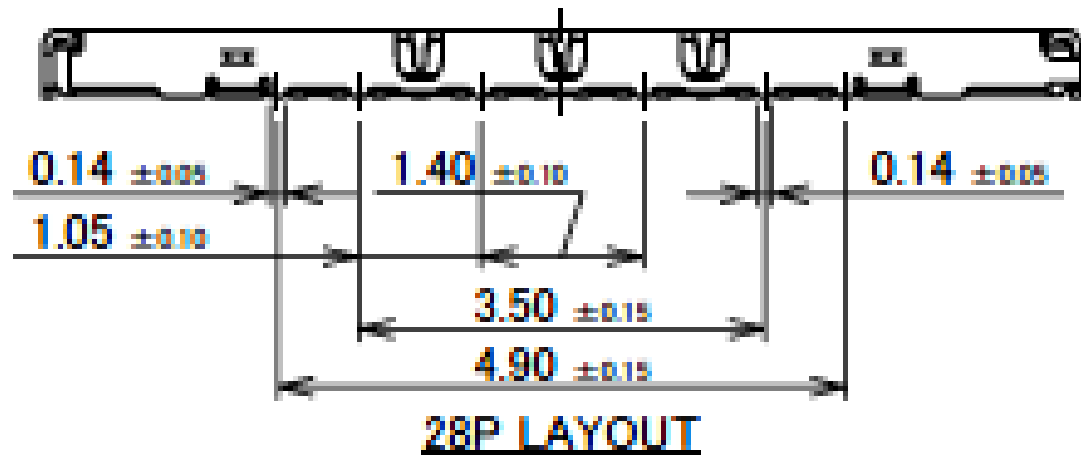
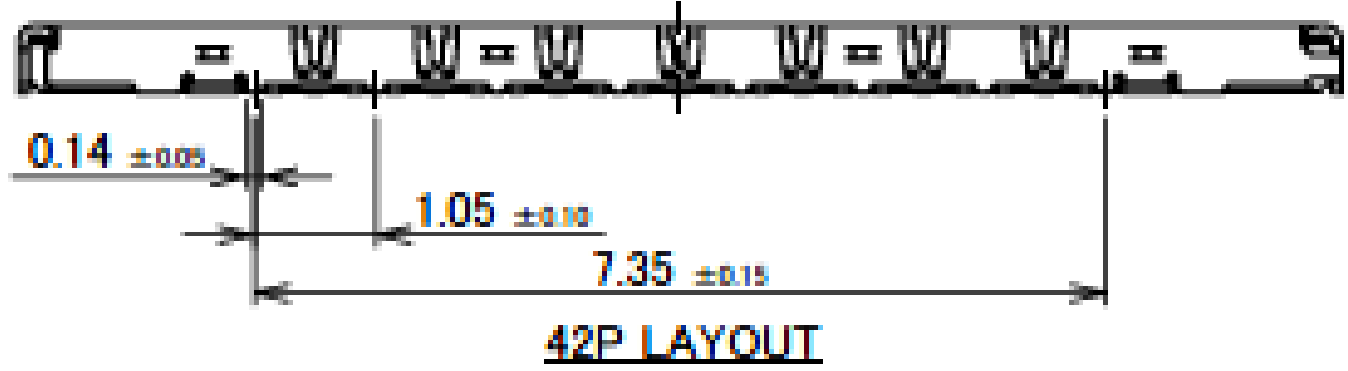
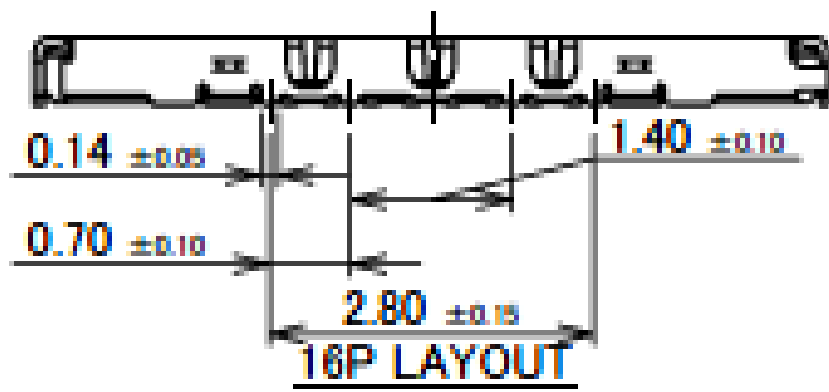
Rev.13

Receptacle Assembly

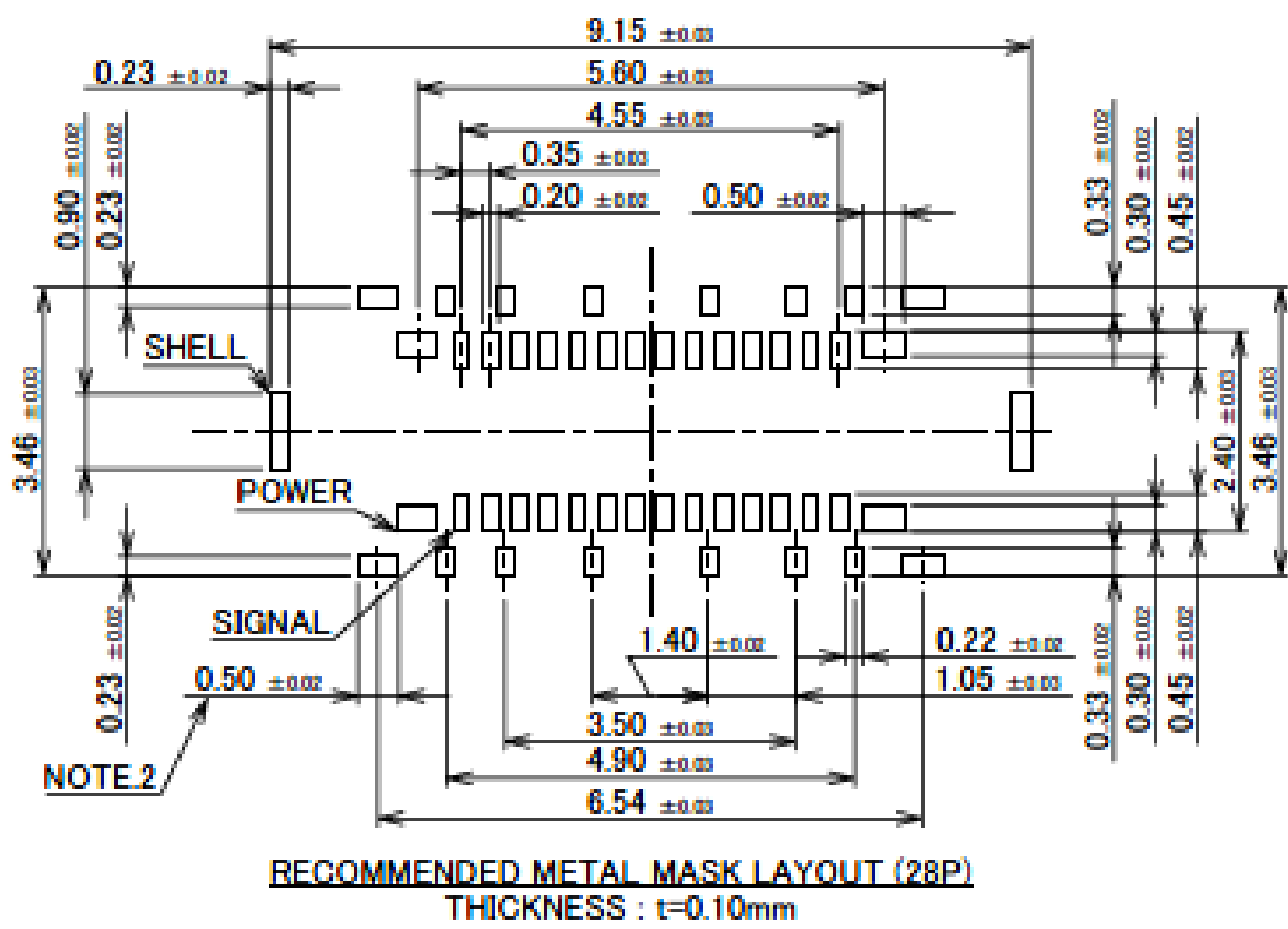
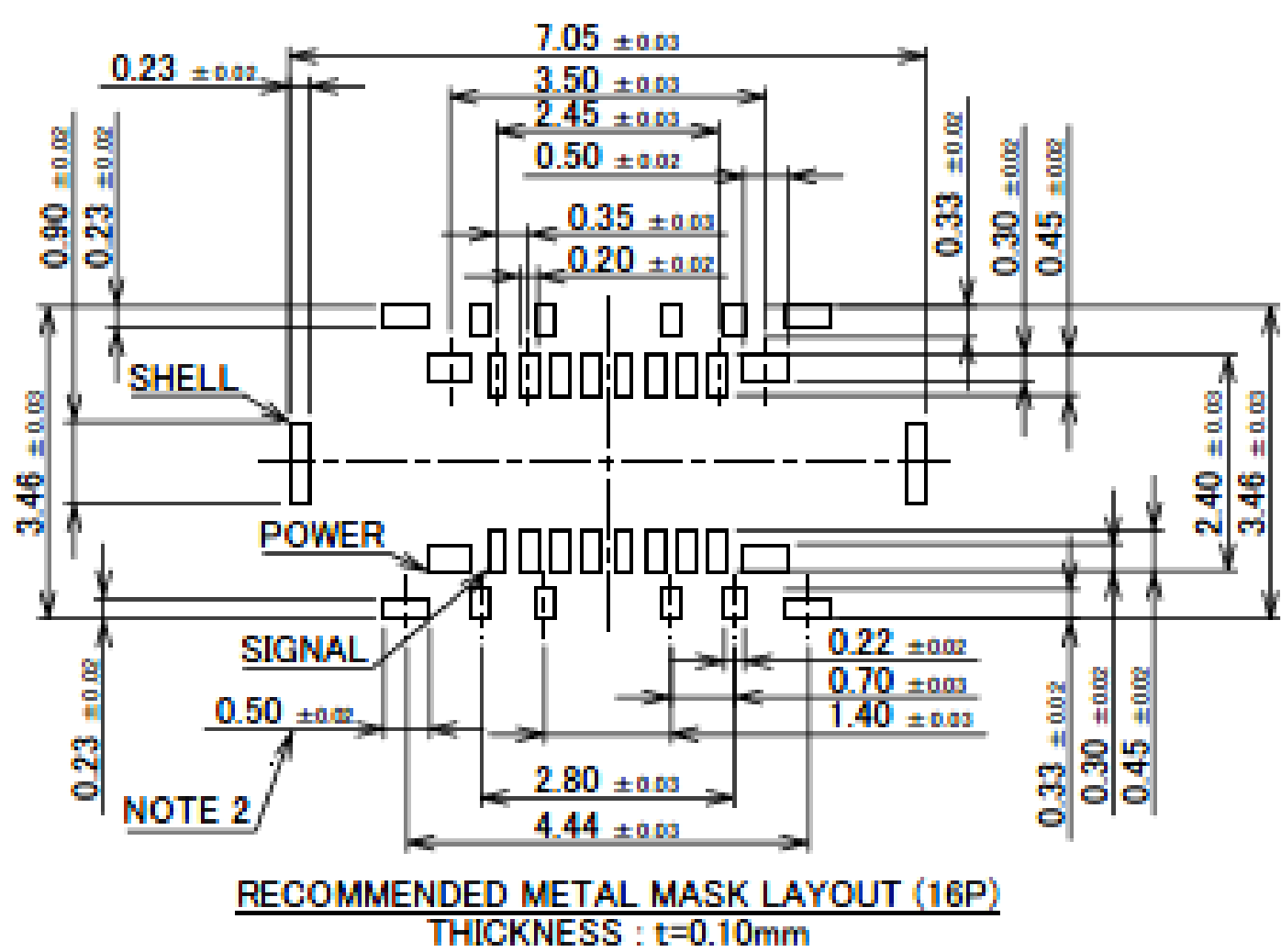
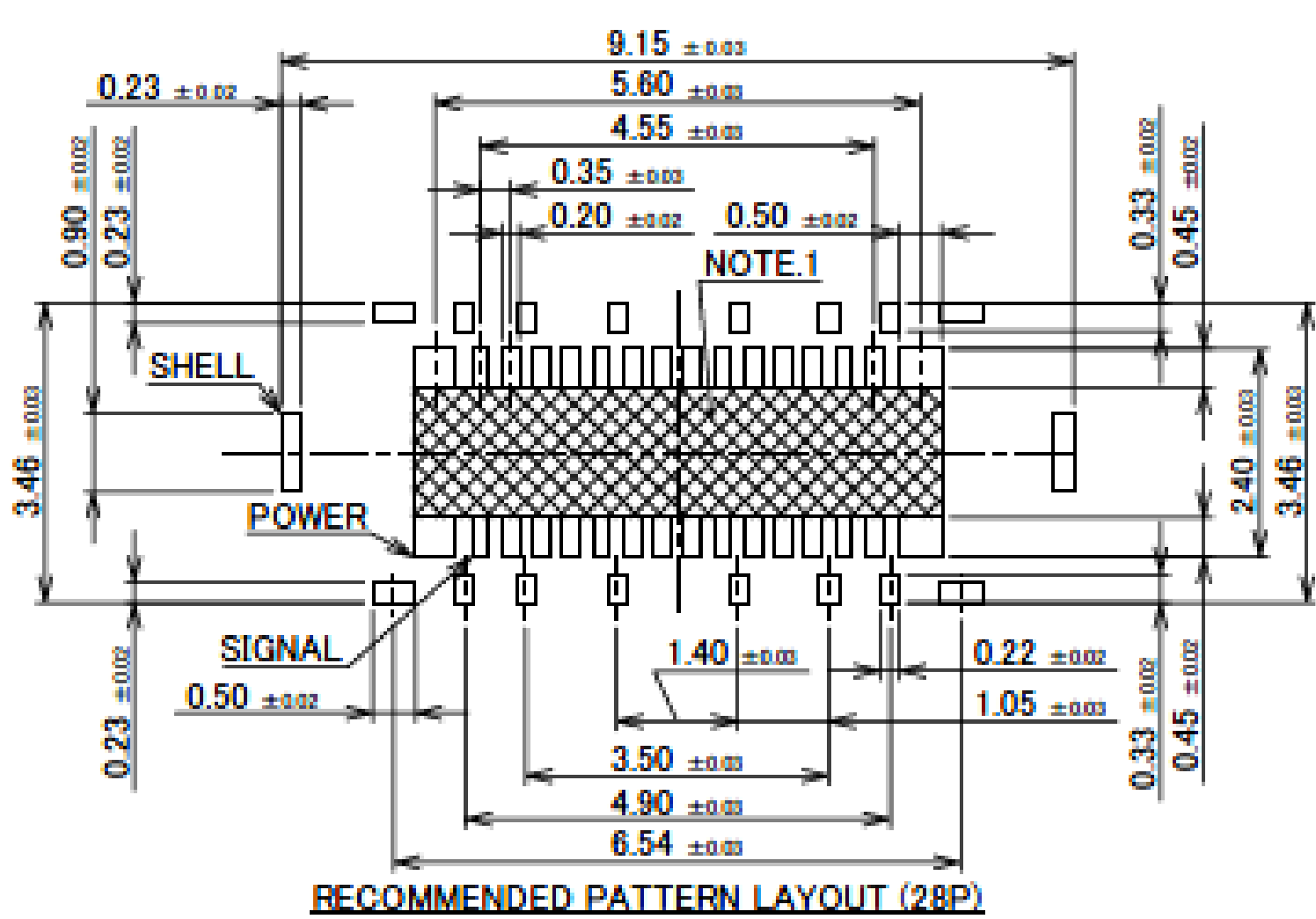
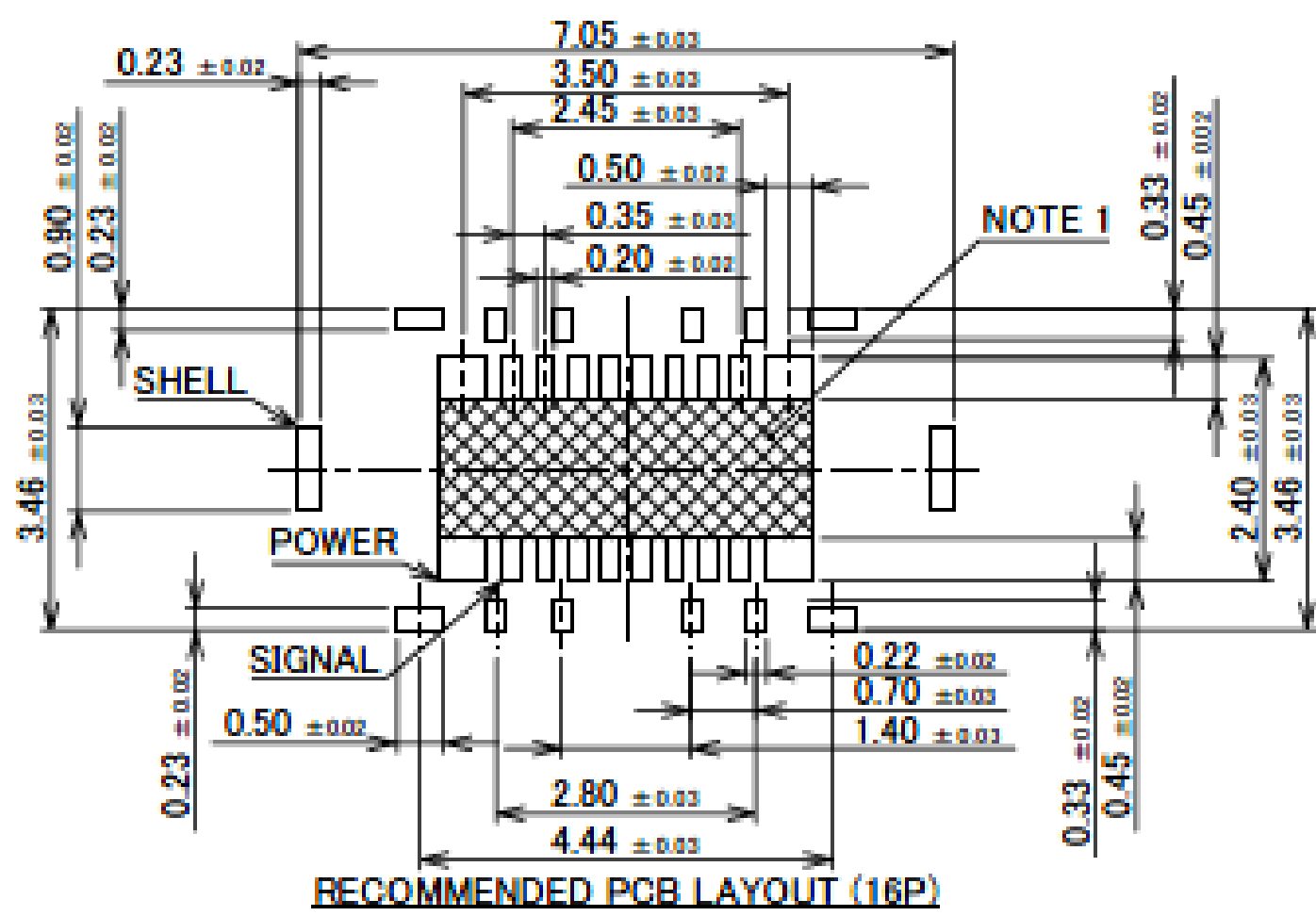
PART No.	SIGNAL POS.	POWER POS.
20698-016E-01	16P	4P
20698-028E-01	28P	4P
20698-034E-01	34P	4P
20698-042E-01	42P	4P
20698-056E-01	56P	4P
20698-062E-01	62P	4P

20698-0**E-01

Pos.



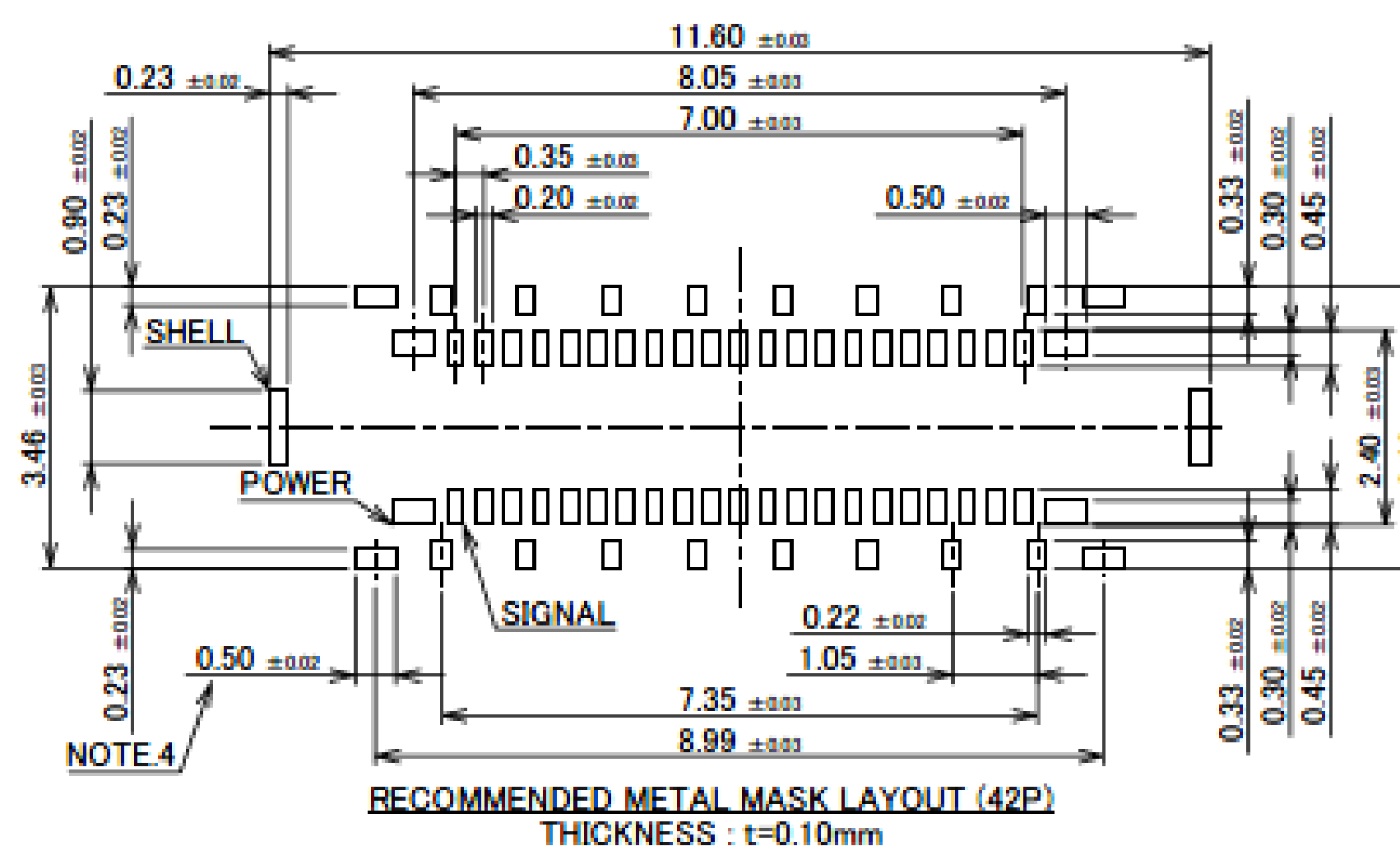
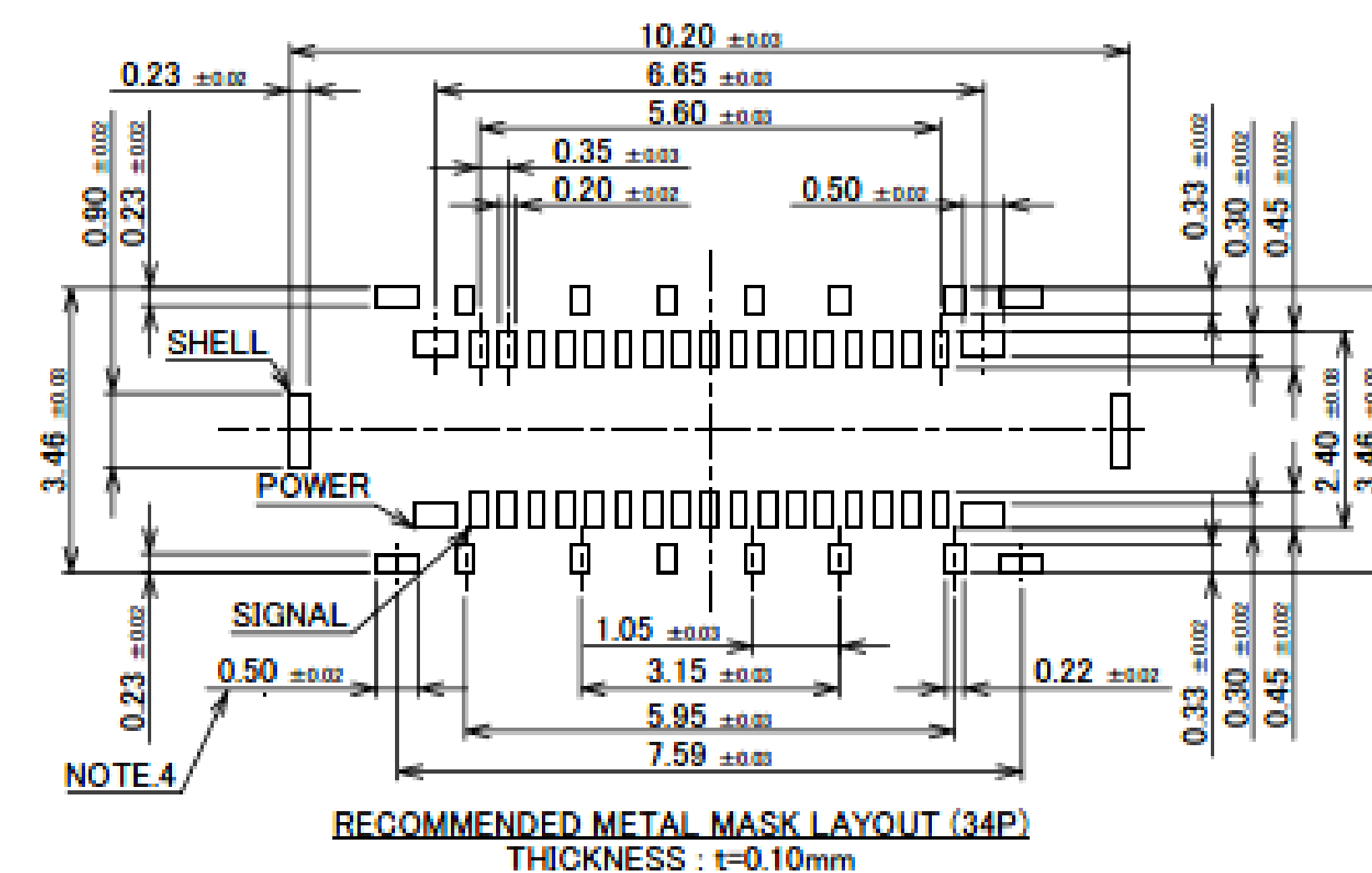
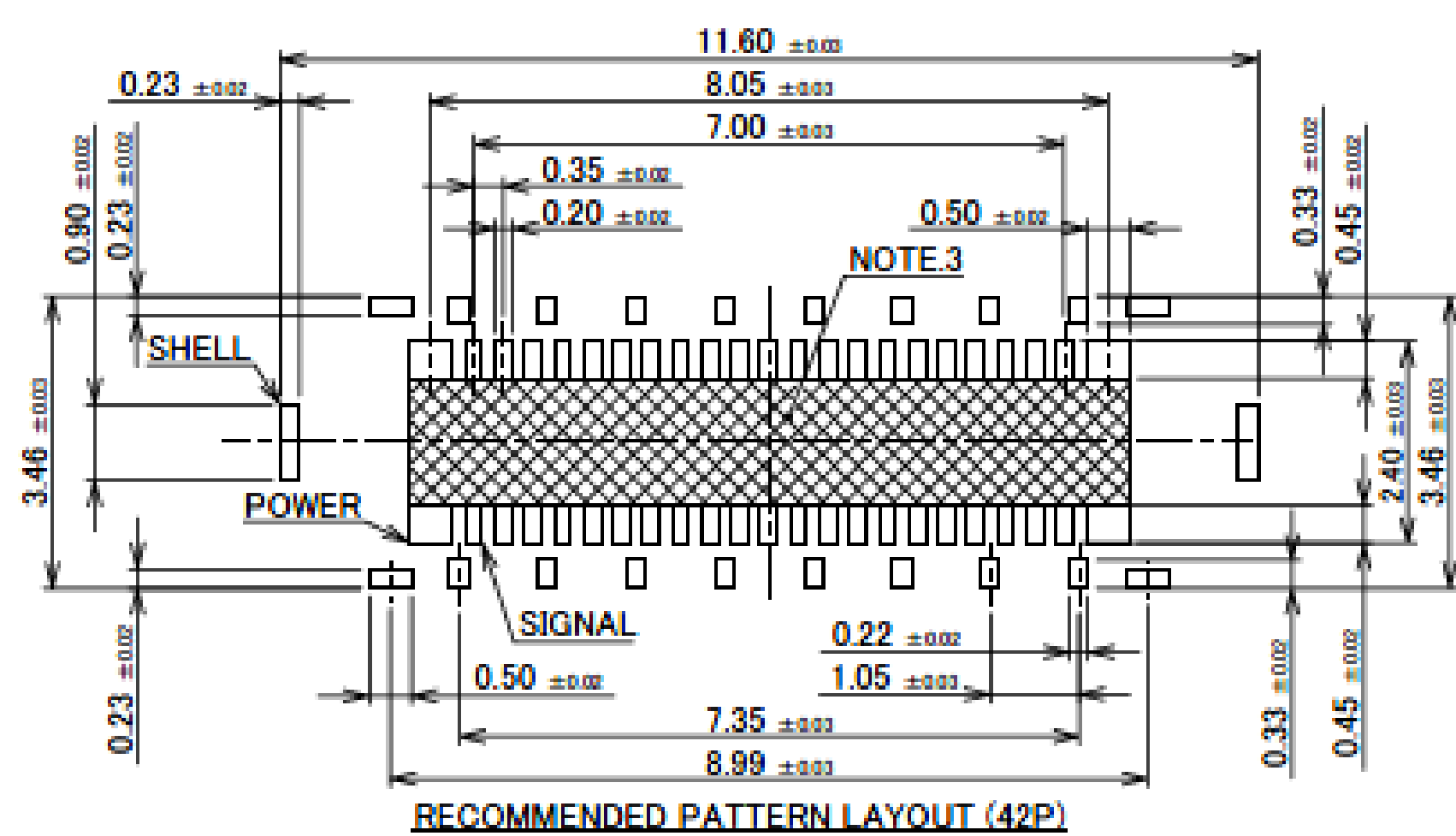
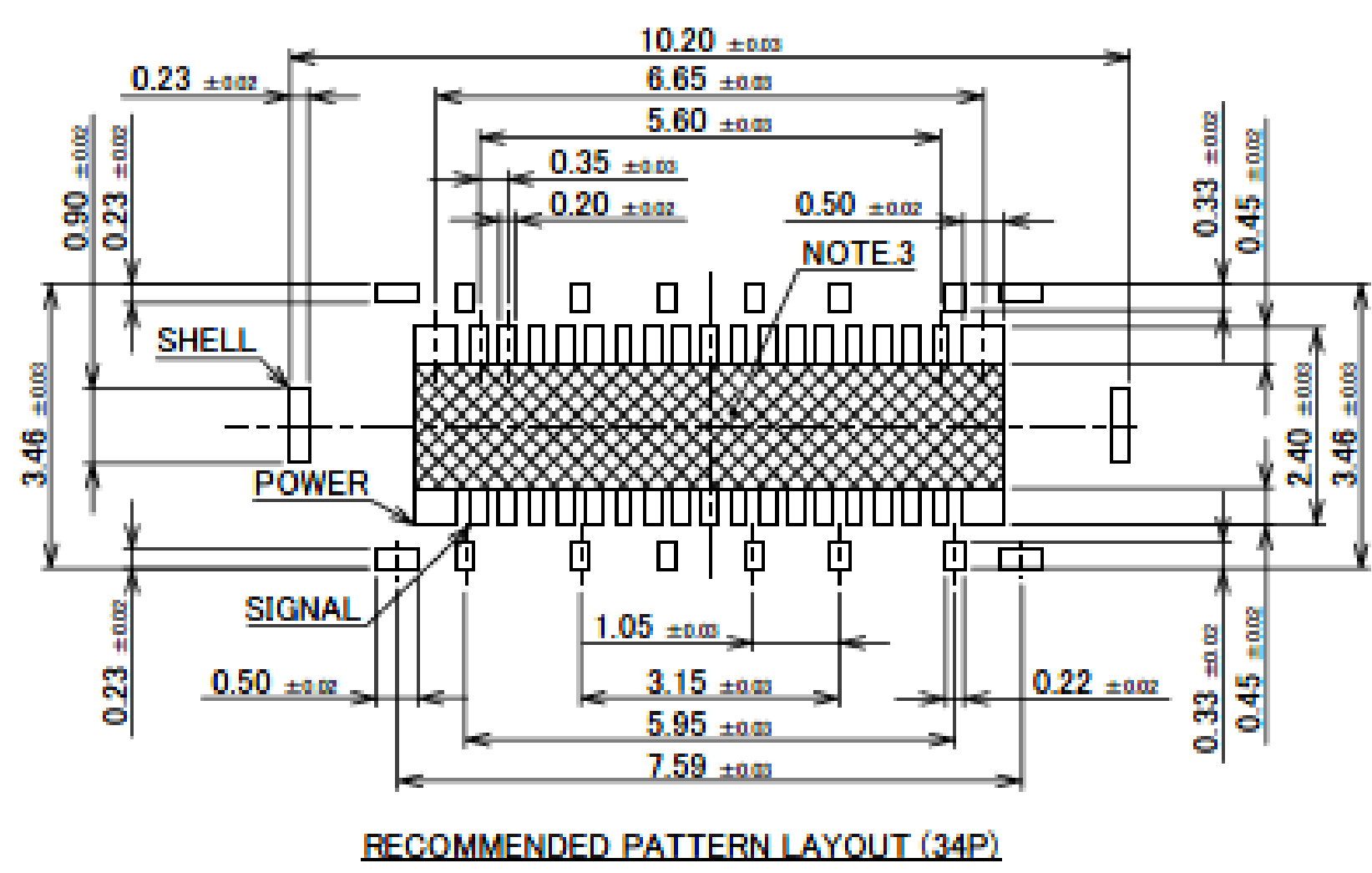
Rev.13



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.

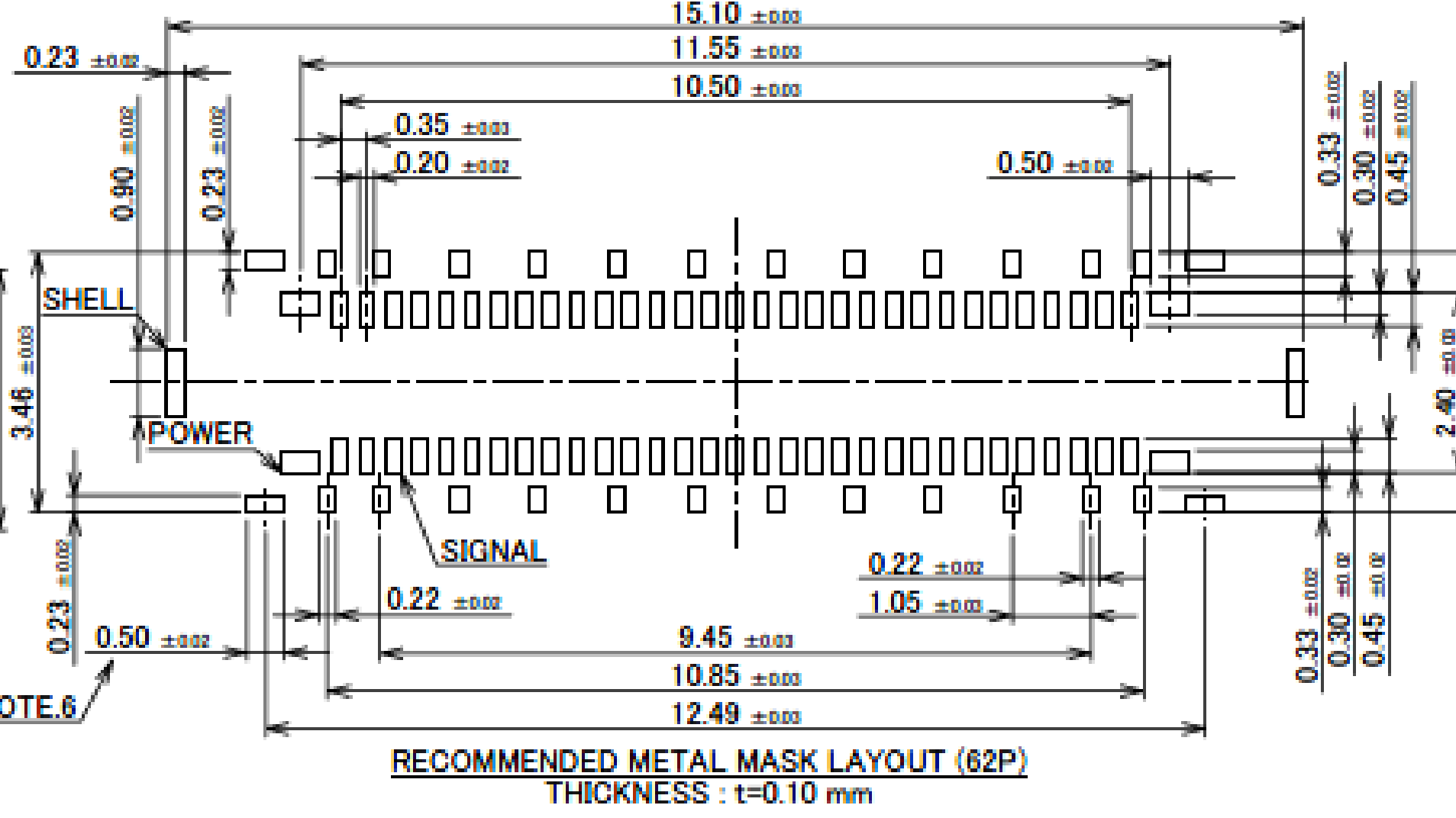
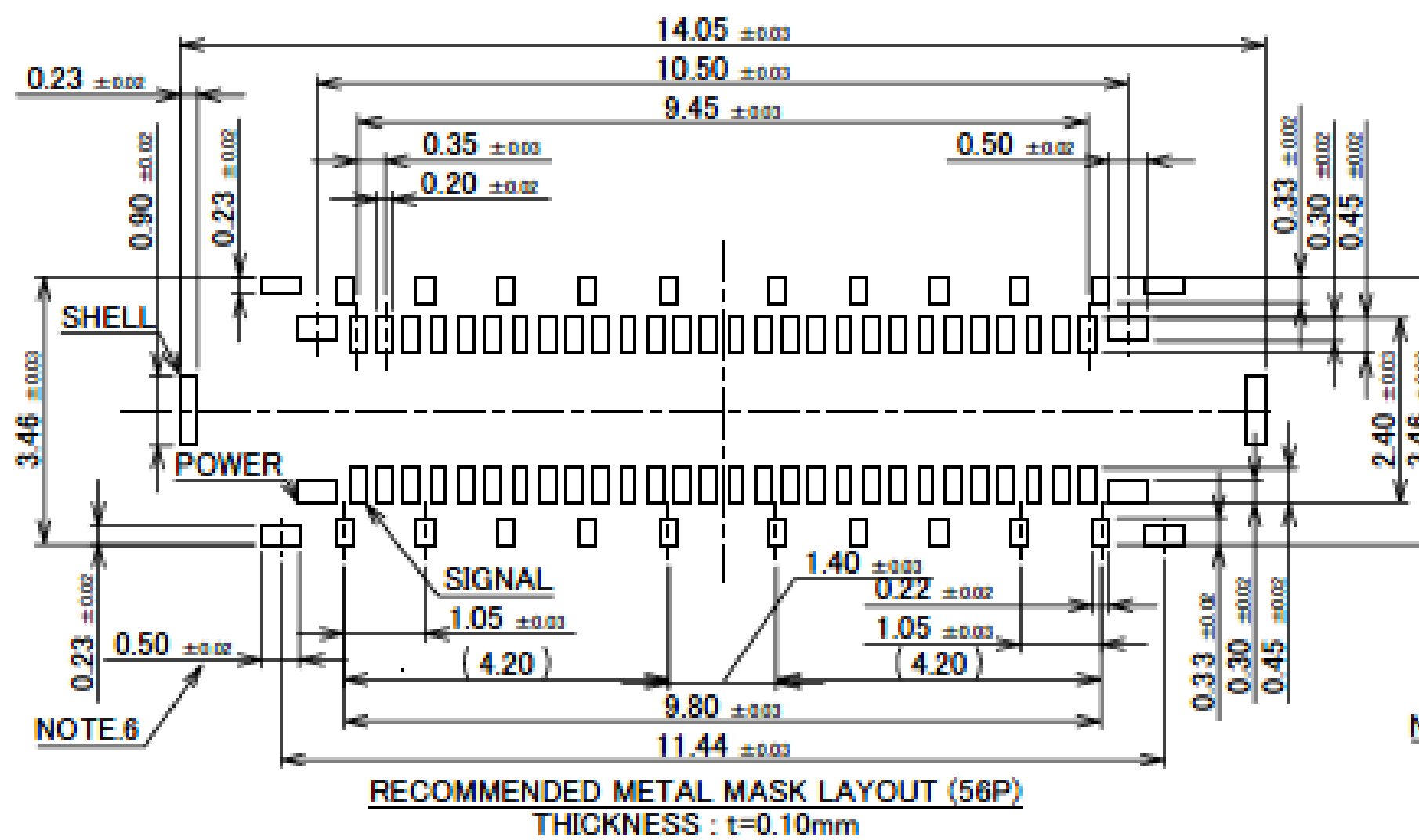
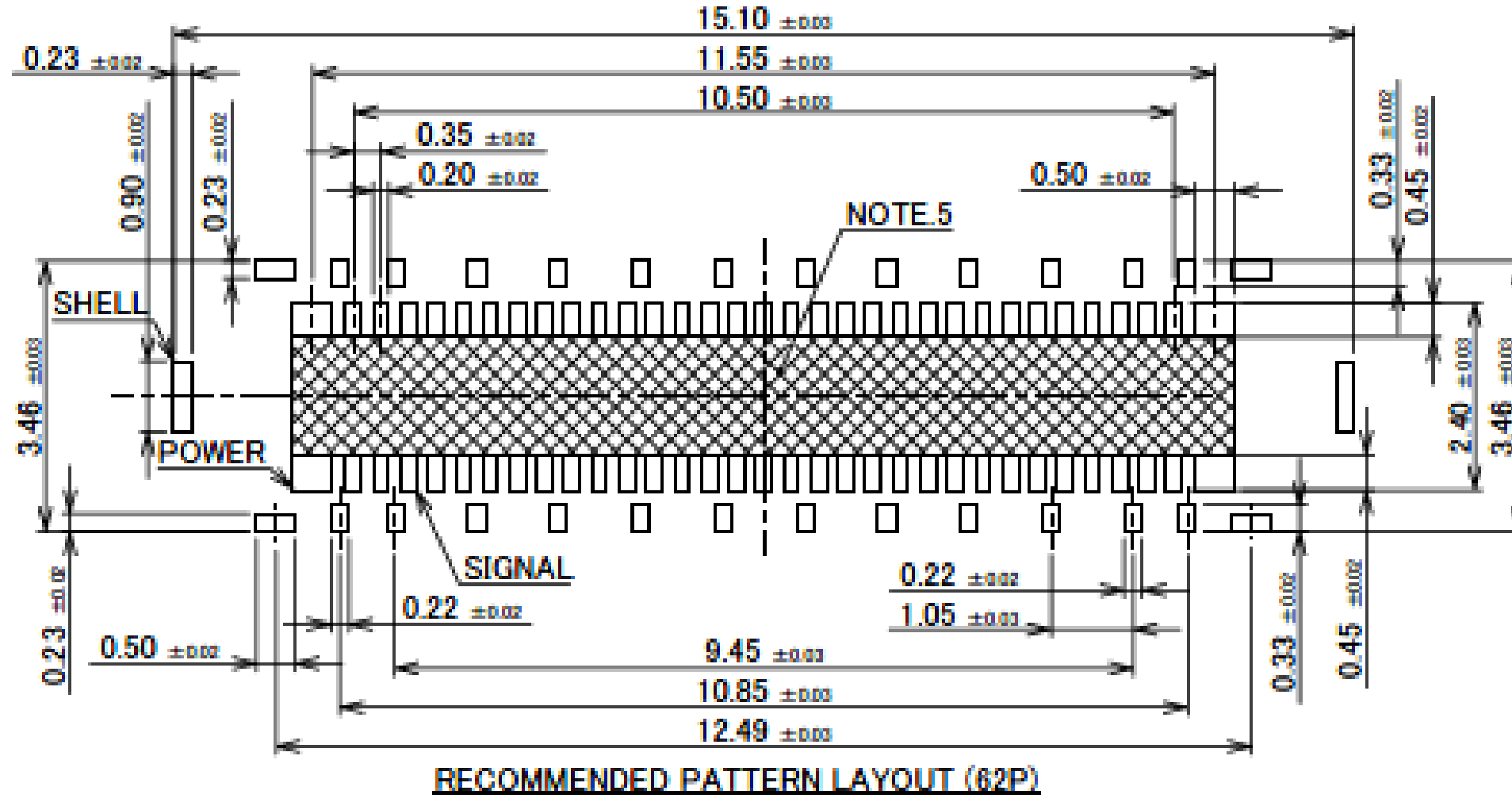
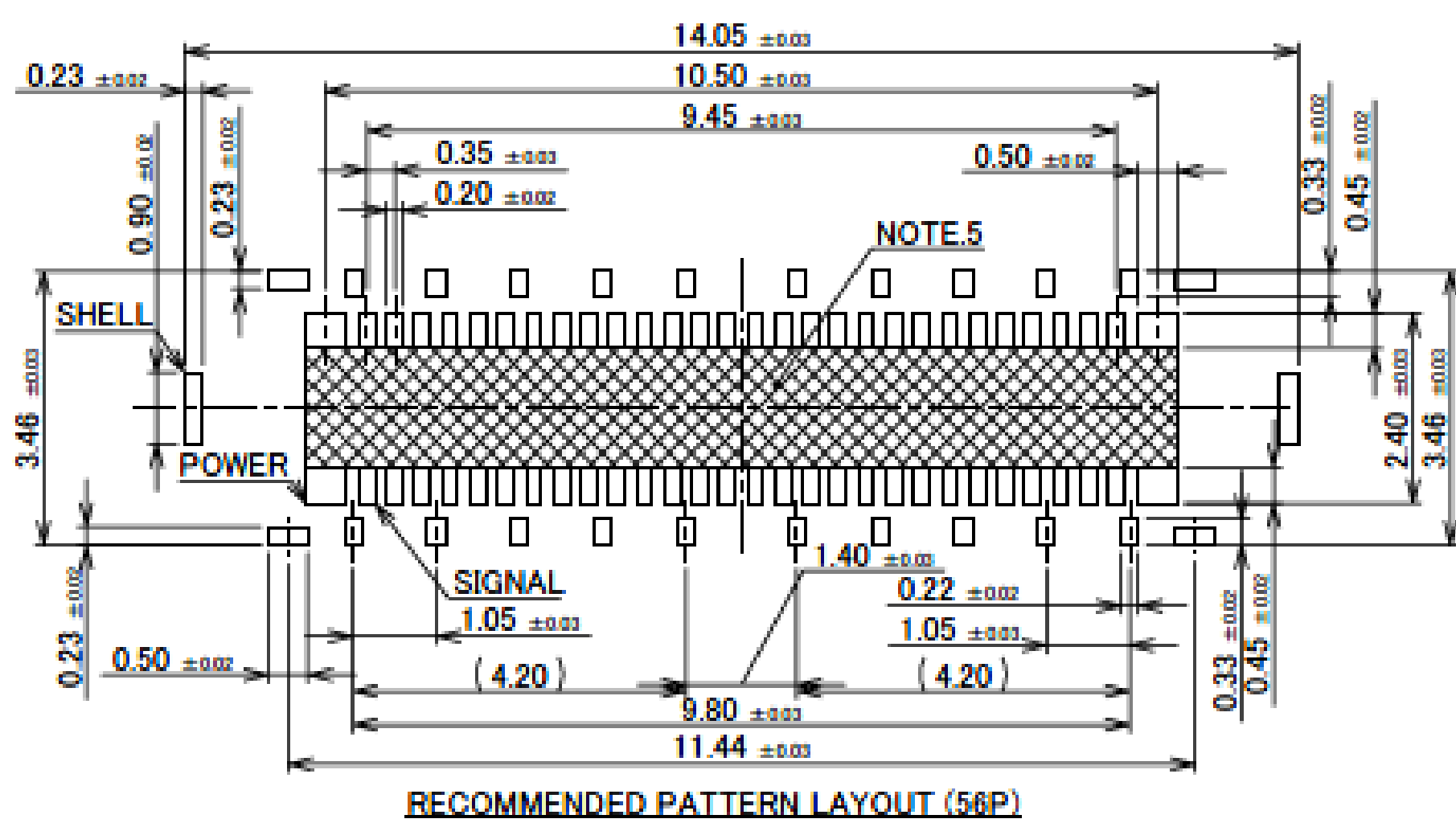
Rev.13

Receptacle Assembly



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.

Rev.13

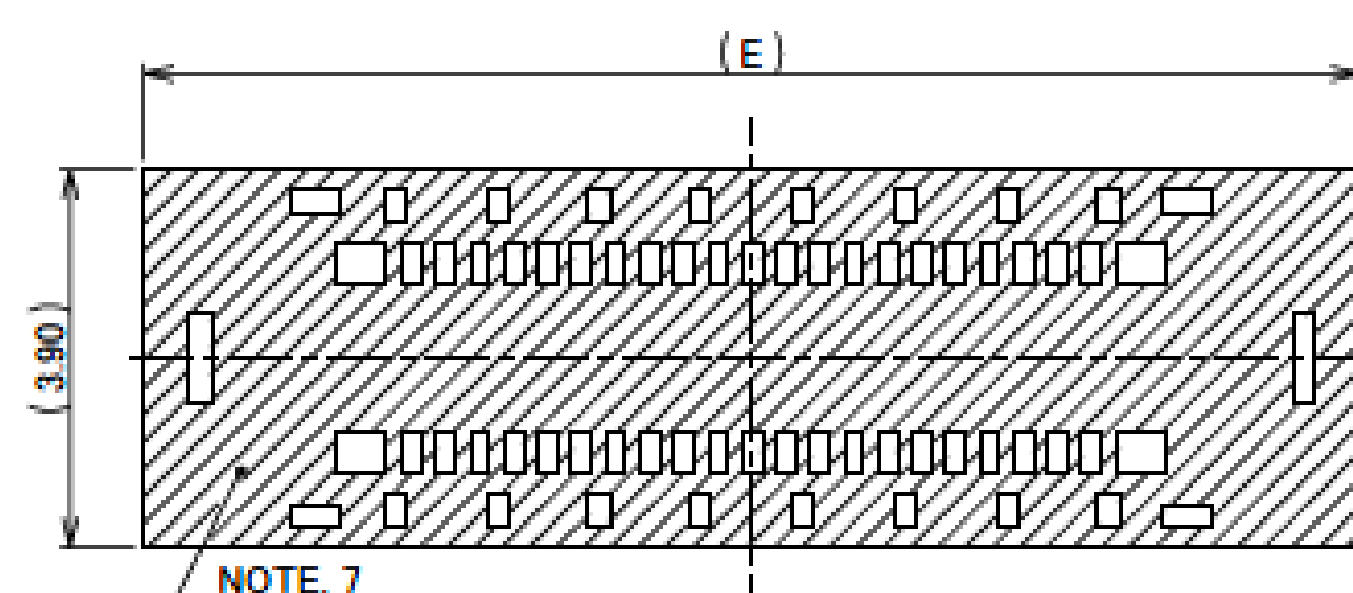


NOTES
5. SOLDER RESIST MUST BE APPLIED TO THIS AREA.
6. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

Rev.13

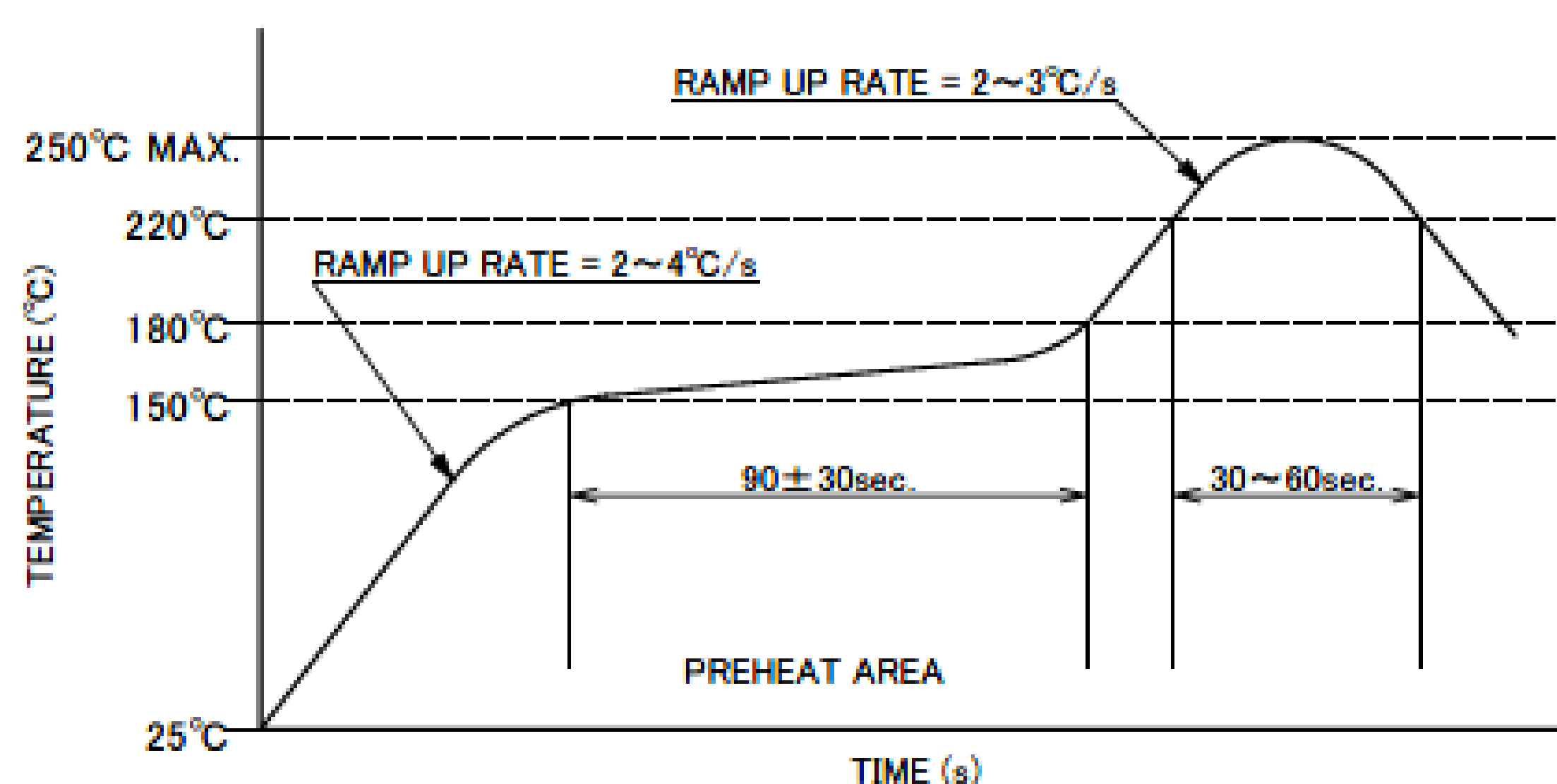
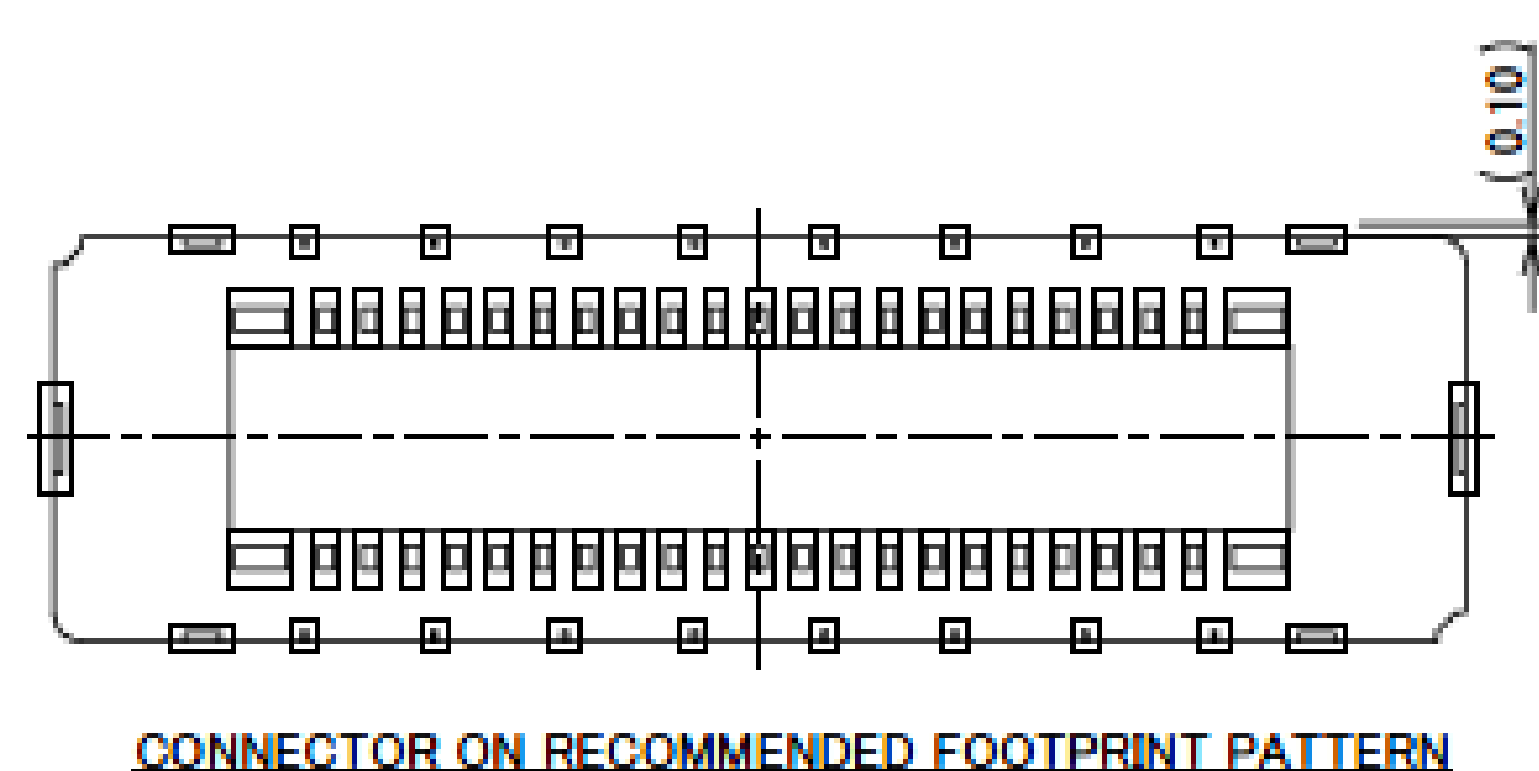
Receptacle Assembly

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
20698-062F-01	62P	4P	16.04



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

Rev.13



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

Rev.13

Receptacle Assembly

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℃~+85℃)
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	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***

Rev.13

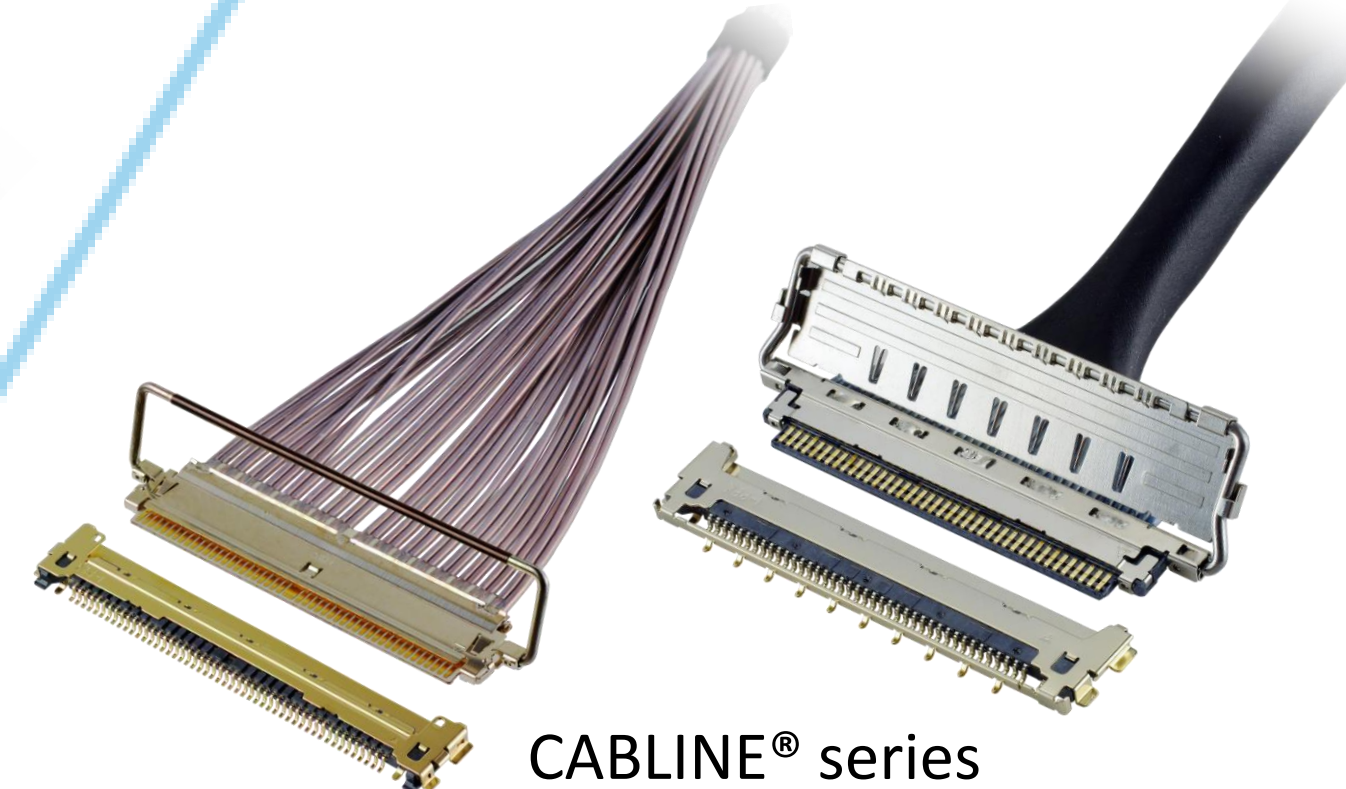
Custom Connectors Available

 RF
Connectors

MHF® series



Micro-coaxial/Twinax
Connectors

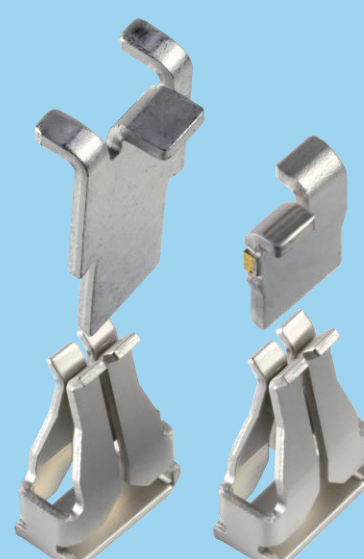


CABLIME® series

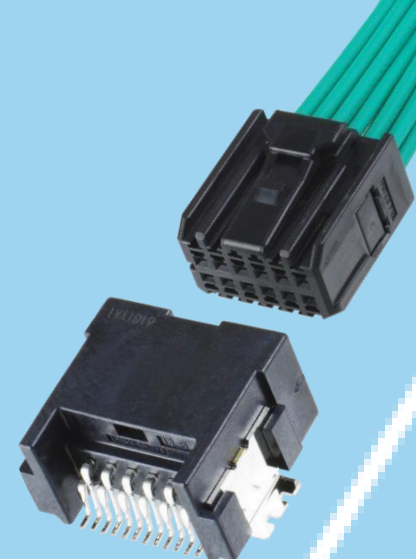


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



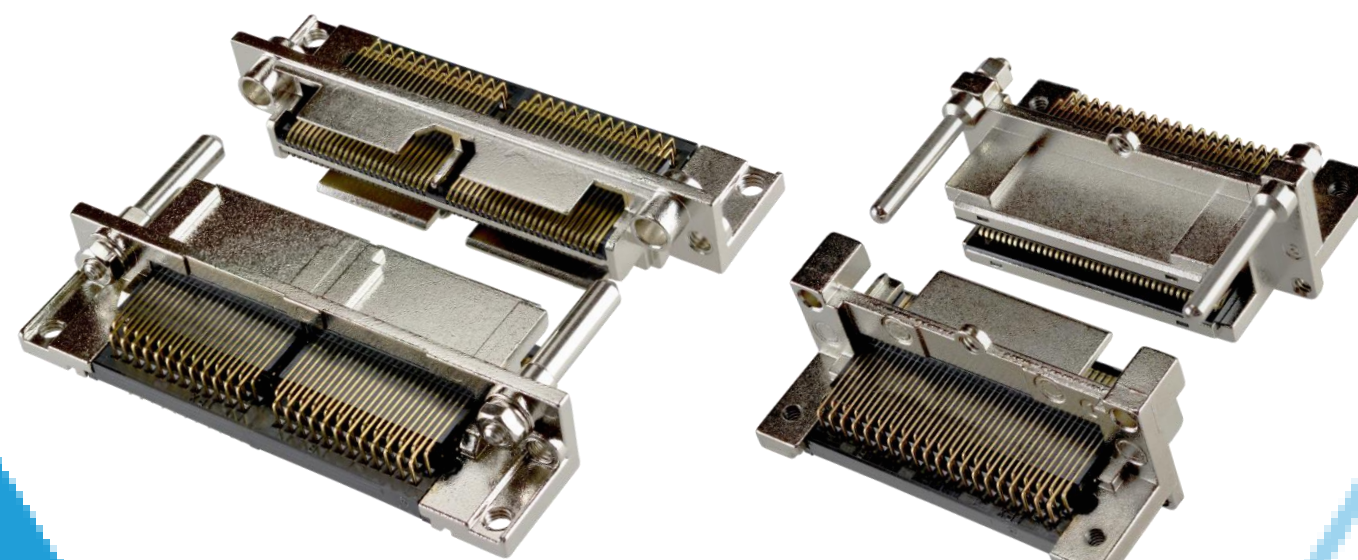
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



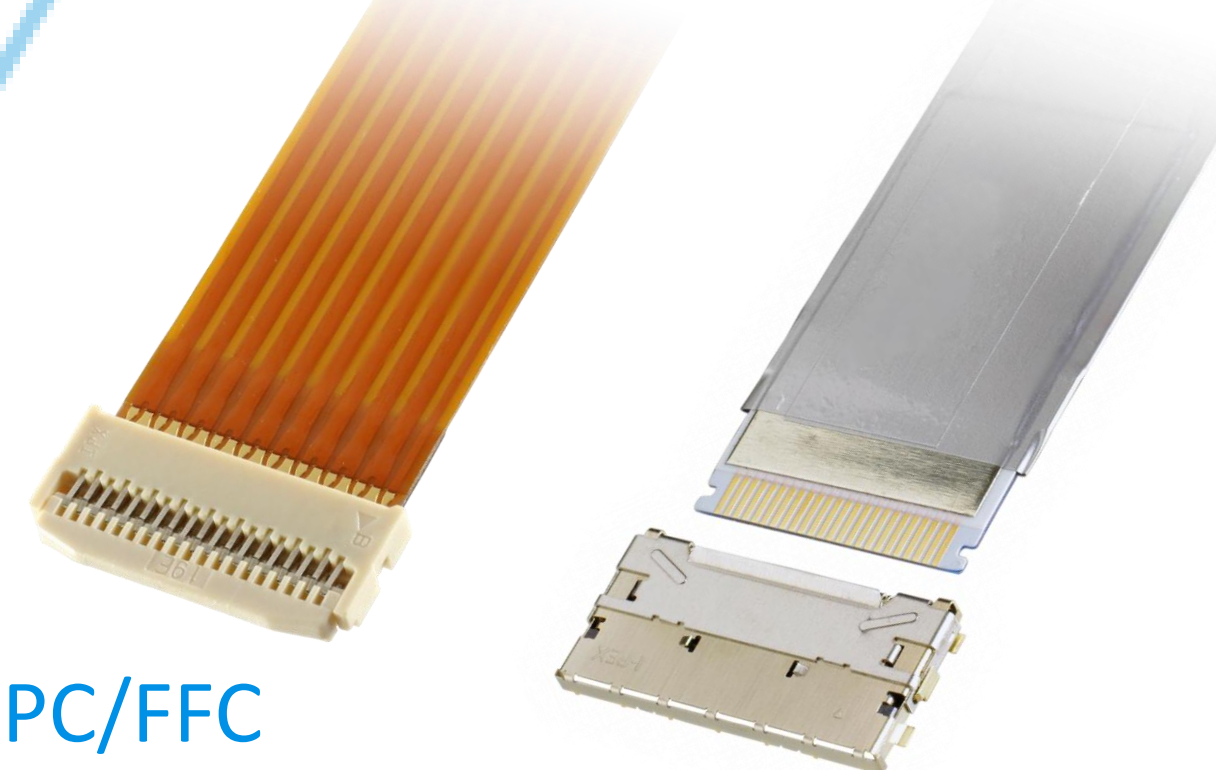
MINIDOCK™ series



FPC/FFC
Connectors

MINIFLEX® series

EVAFLEX® series



Inquiry



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