NOVASTACK® 35-HDP

High-speed (20+ Gbps/lane) fully-shielded with power contacts, 0.35 mm pitch, 0.7 mm height

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 Signal		0.3 A/pin
Rating	Power	2.2 A/pin x 4
Din Courts	Range	6 - 76 (signal) + 4 (power)
Pin Counts	Available	28,34,42,56,62 /+ 4

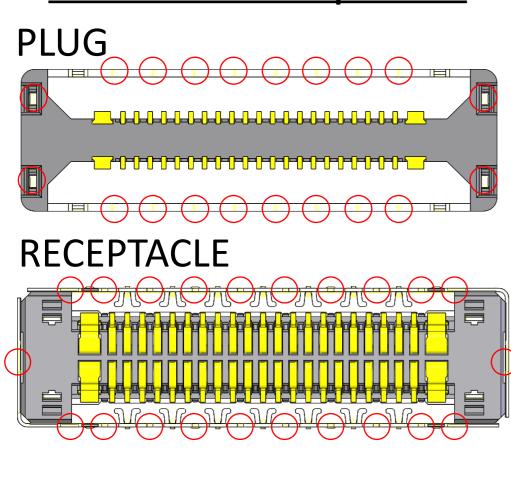
Applicable Standards (Reference Only):

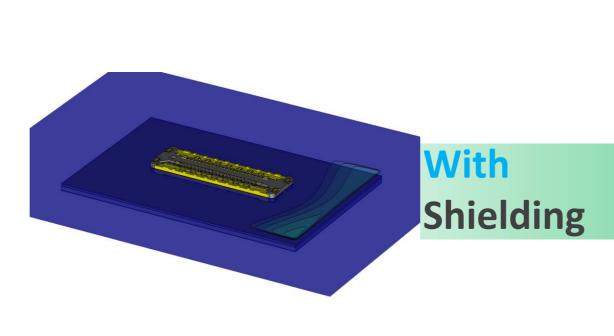
USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps) eDP HBR 3 (8.1 Gbps) eDP HBR 2 (5.4 Gbps) HDMI 2.0 (6 Gbps) V-By-One HS 1.4 (4 Gbps) MiPi standards

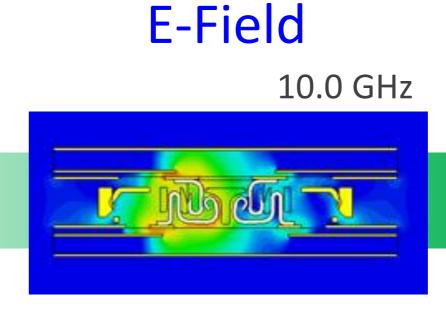


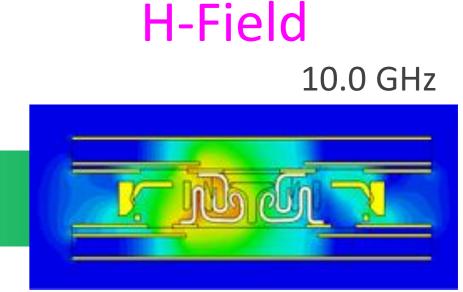
ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage

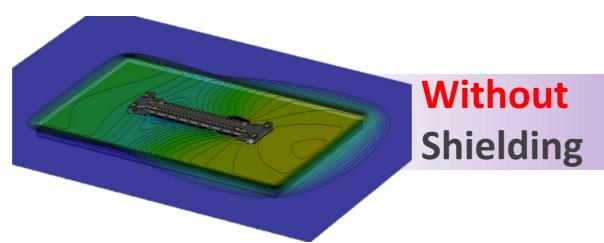
Ground SMT points

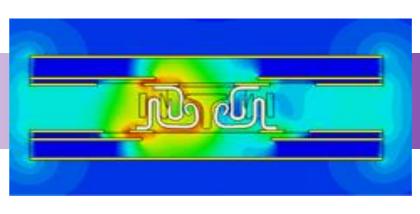


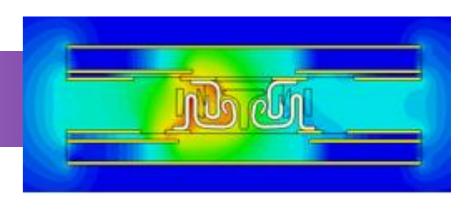




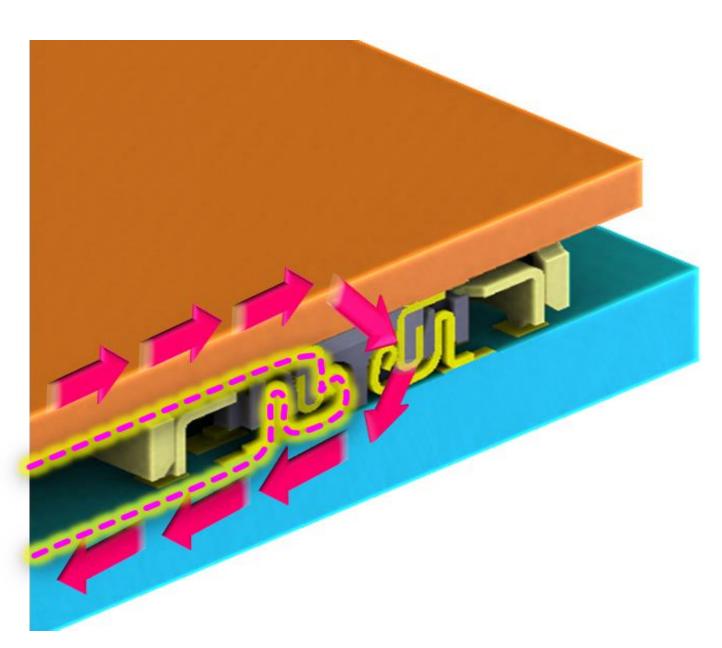




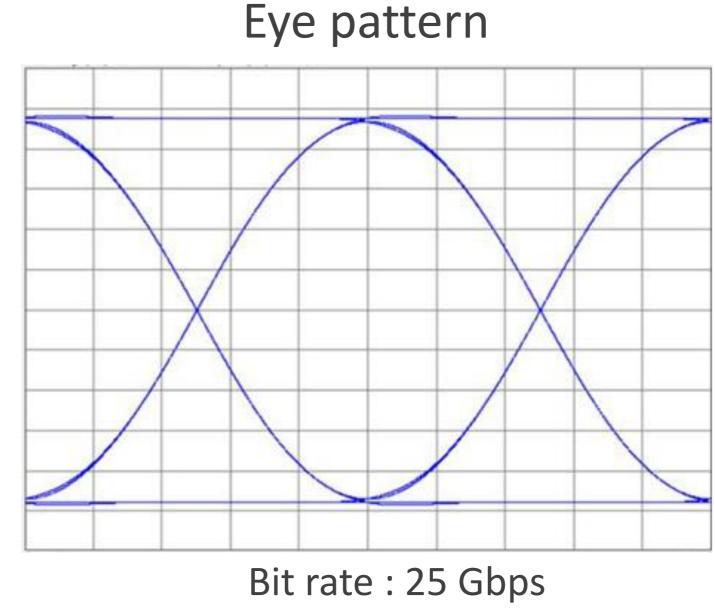




Ideal for high-speed transmission e.g. USB4 / Thunderbolt 4 (20+ Gbps / lane)

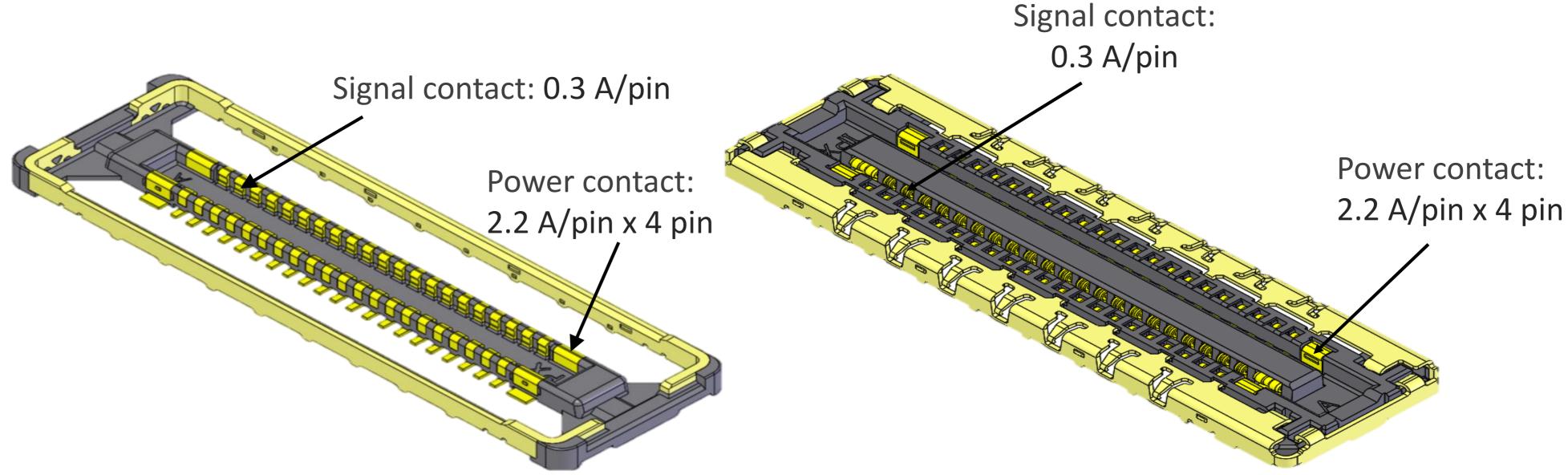






Rise time: 20 ps (10-90%) Input voltage: 800 mVp-p

2.2 A power pin x 4 for power delivery

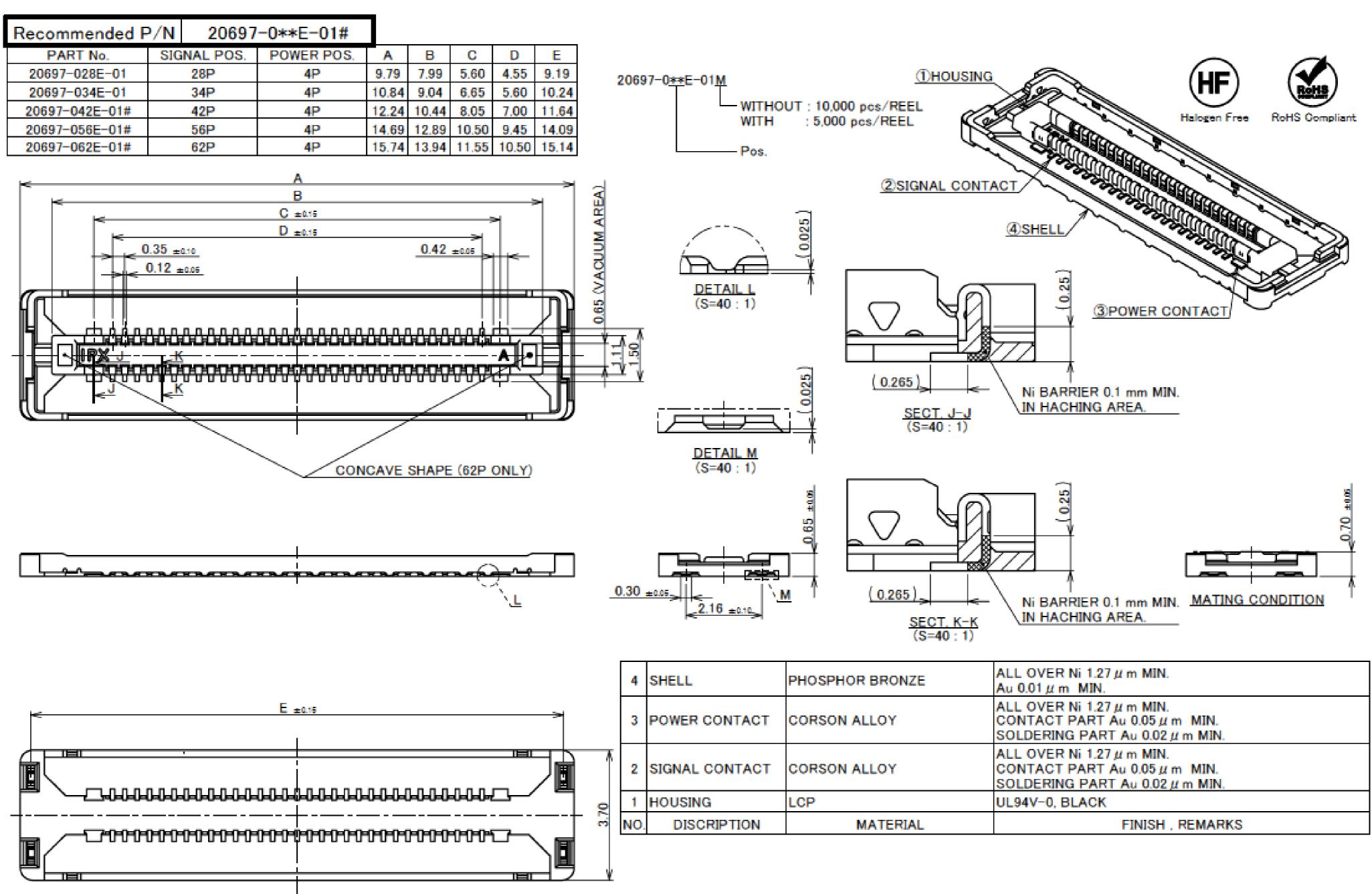




^{*} Please inquire for pin counts not listed or outside of the pin count range.

Component Parts Detail

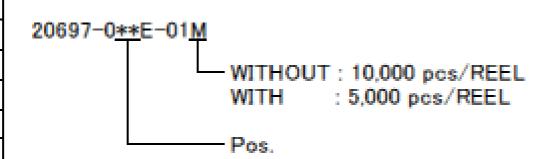
Plug Assembly

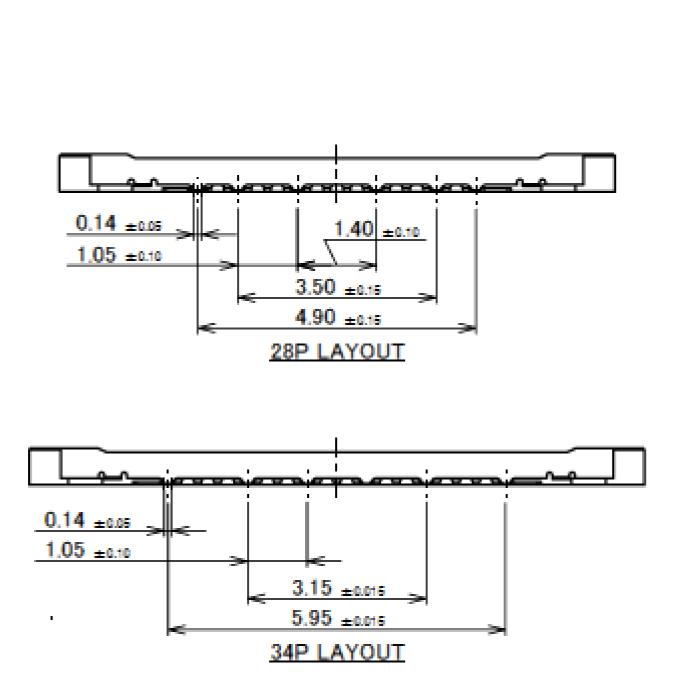


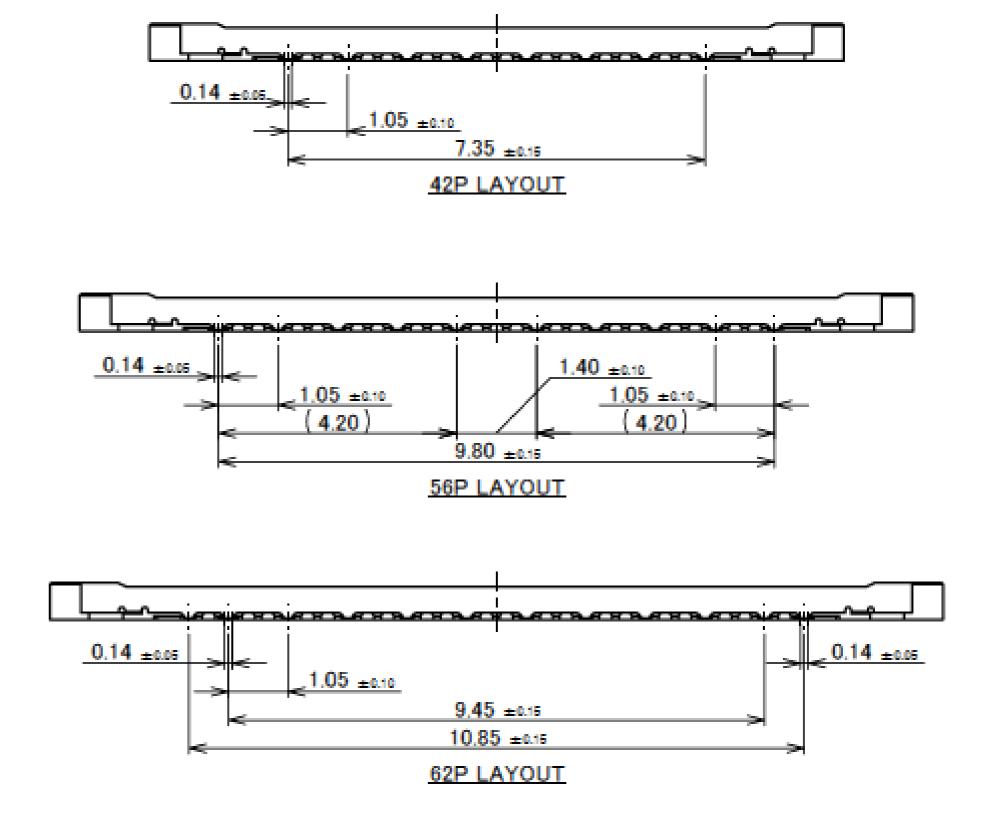


Plug Assembly

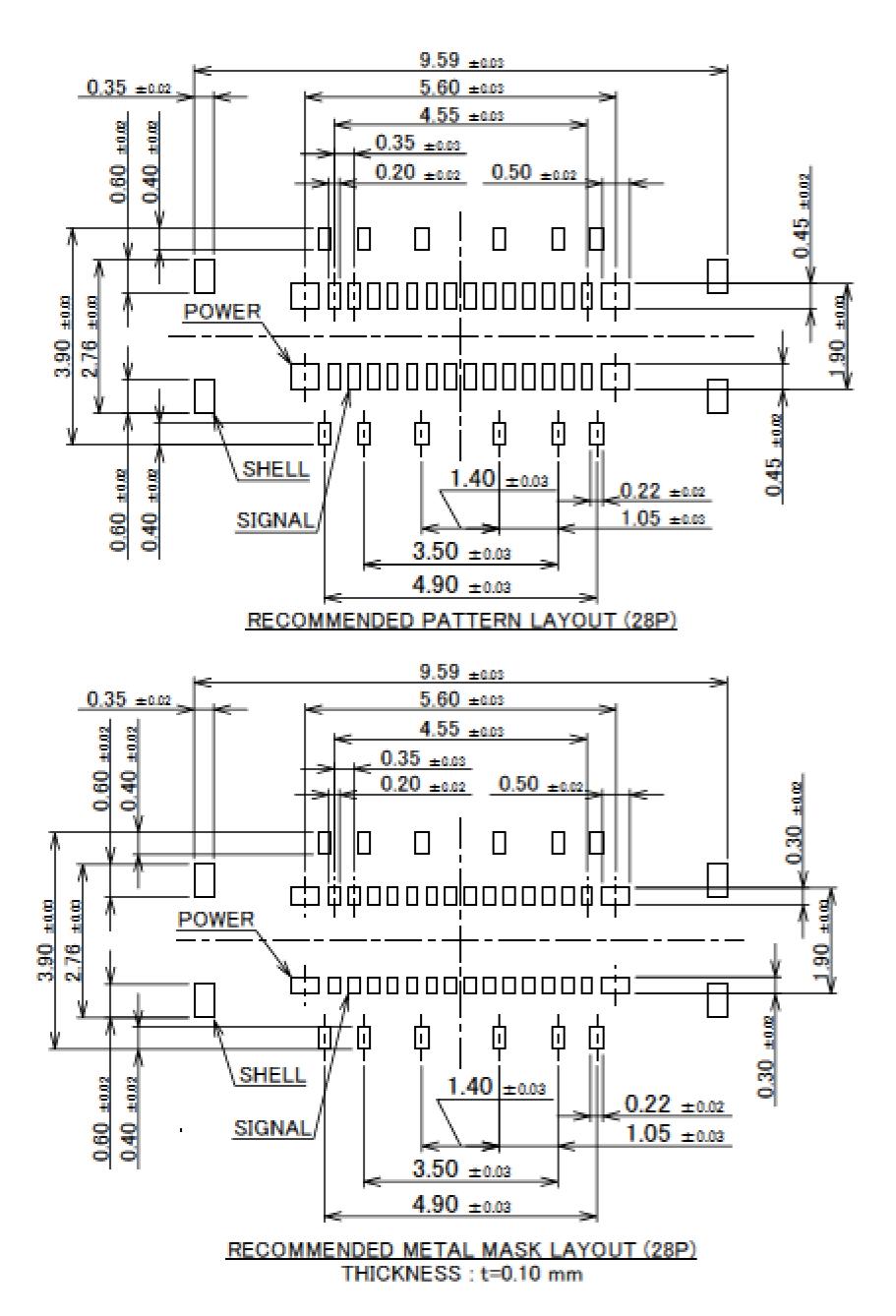
PART No.	SIGNAL POS.	POWER POS.
20697-028E-01	28P	4P
20697-034E-01	34P	4P
20697-042E-01#	42P	4P
20697-056E-01#	56P	4P
20697-062E-01#	62P	4P

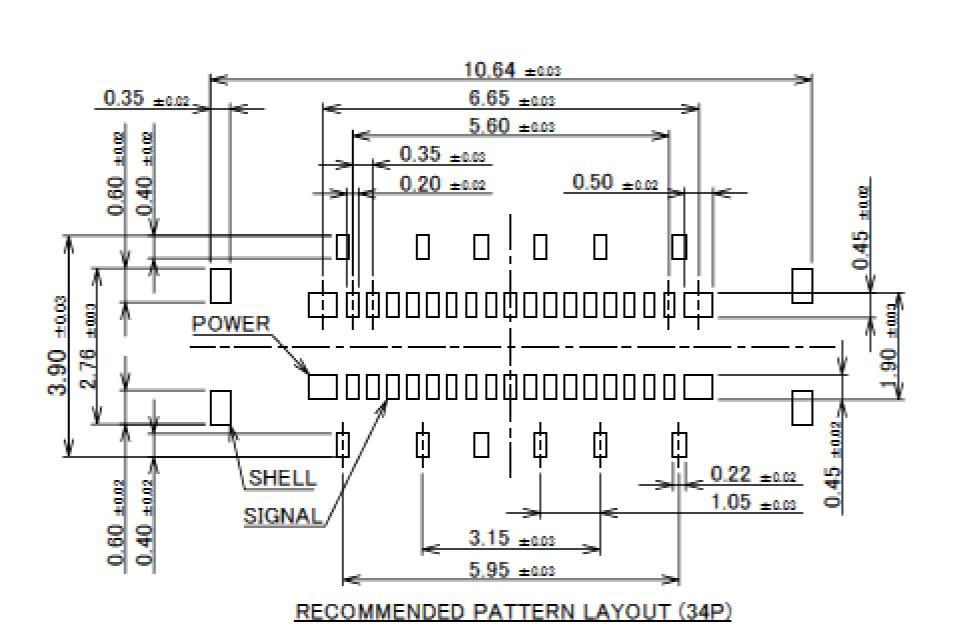


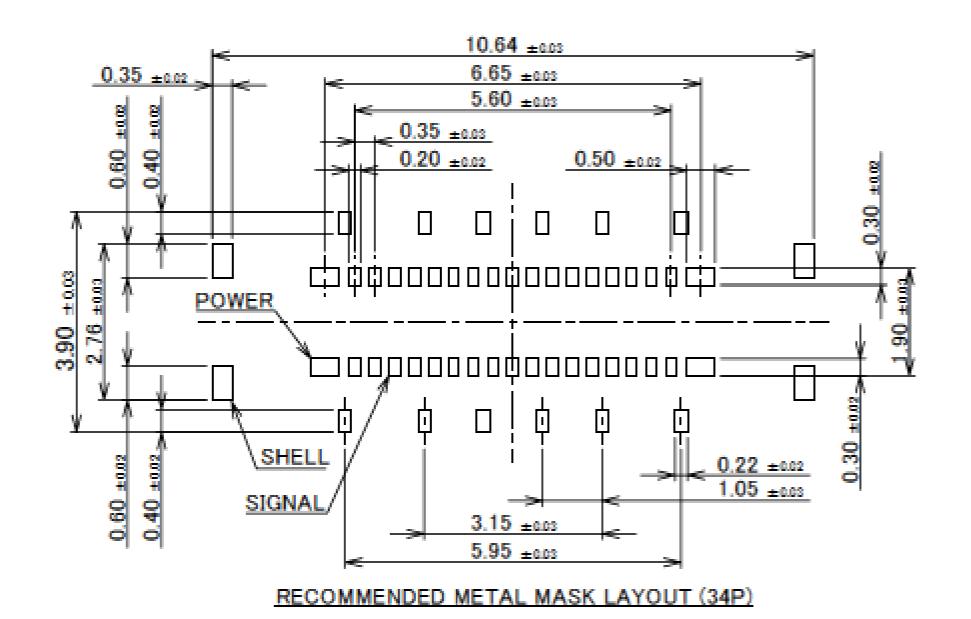




Rev.7



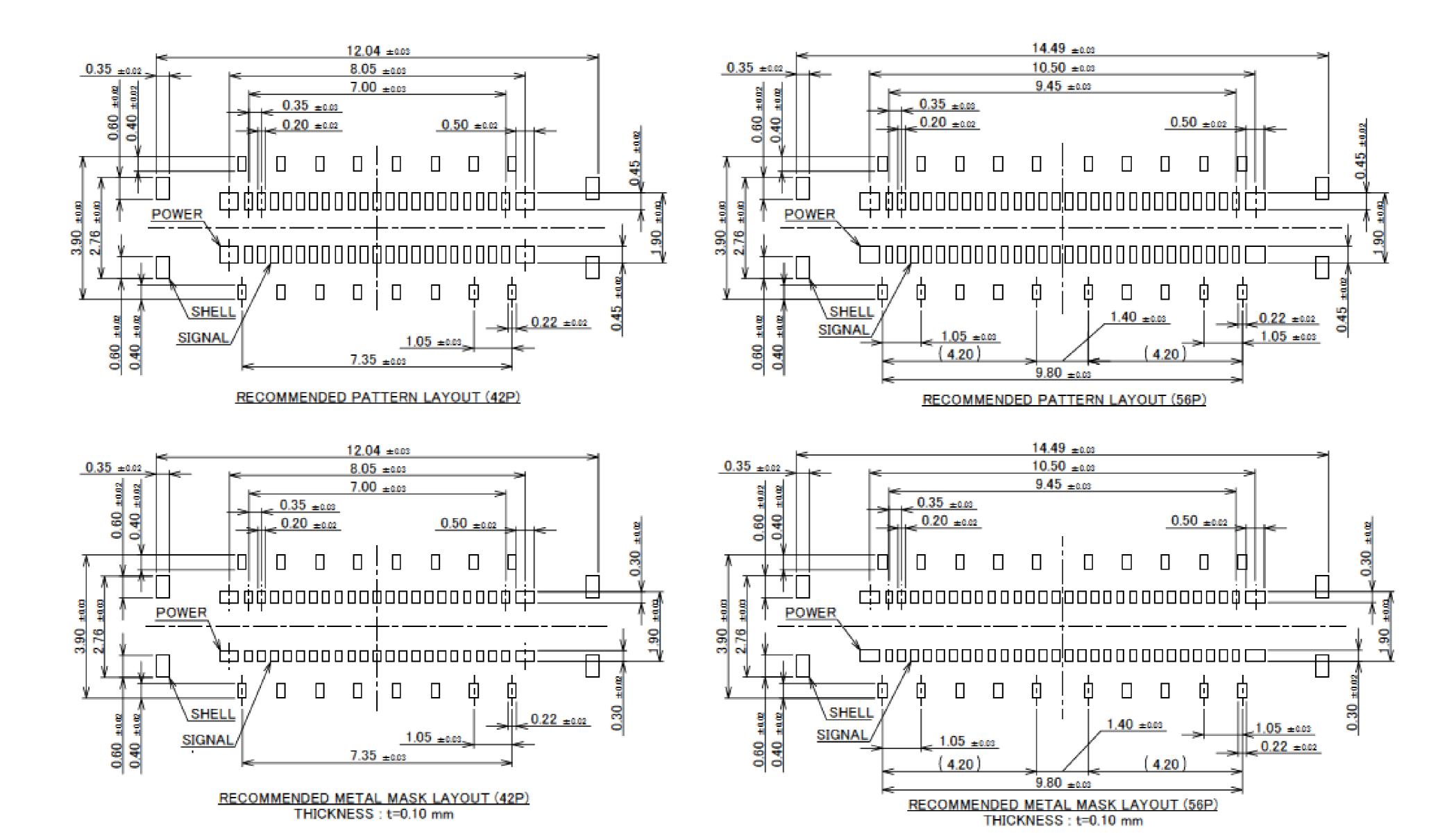




Rev.7

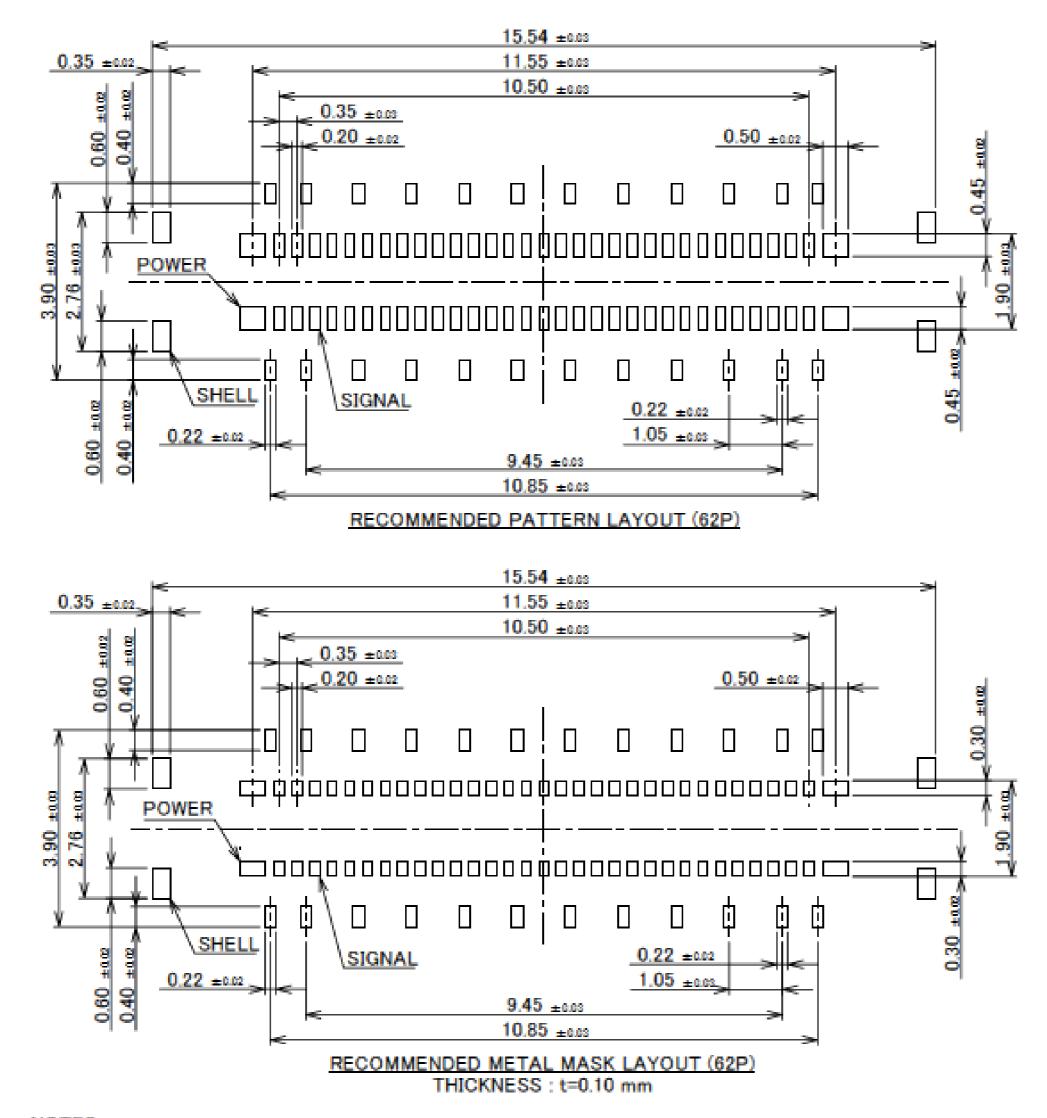


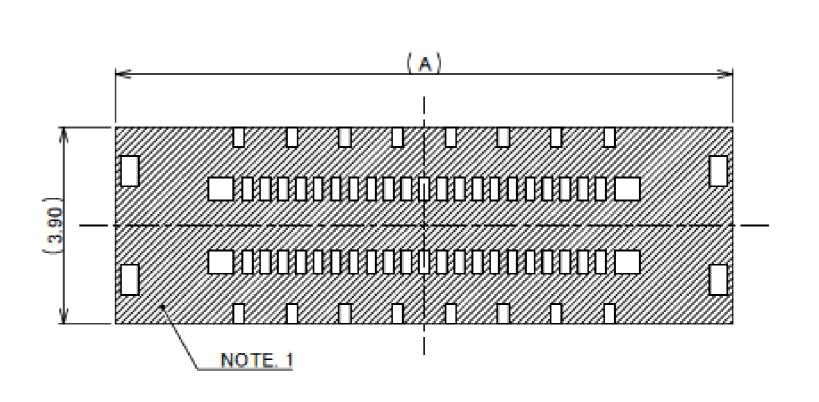
Plug Assembly



Rev.7

PART No.	SIGNAL POS.	POWER POS.	Α
20697-028E-01	28P	4P	9.79
20697-034E-01	34P	4P	10.84
20697-042E-01#	42P	4P	12.24
20697-056E-01#	56P	4P	14.69
20697-062E-01#	62P	4P	15.74



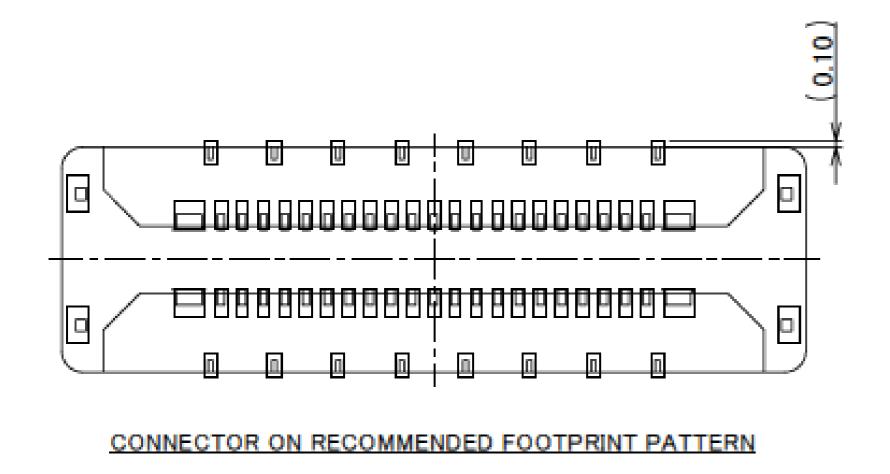


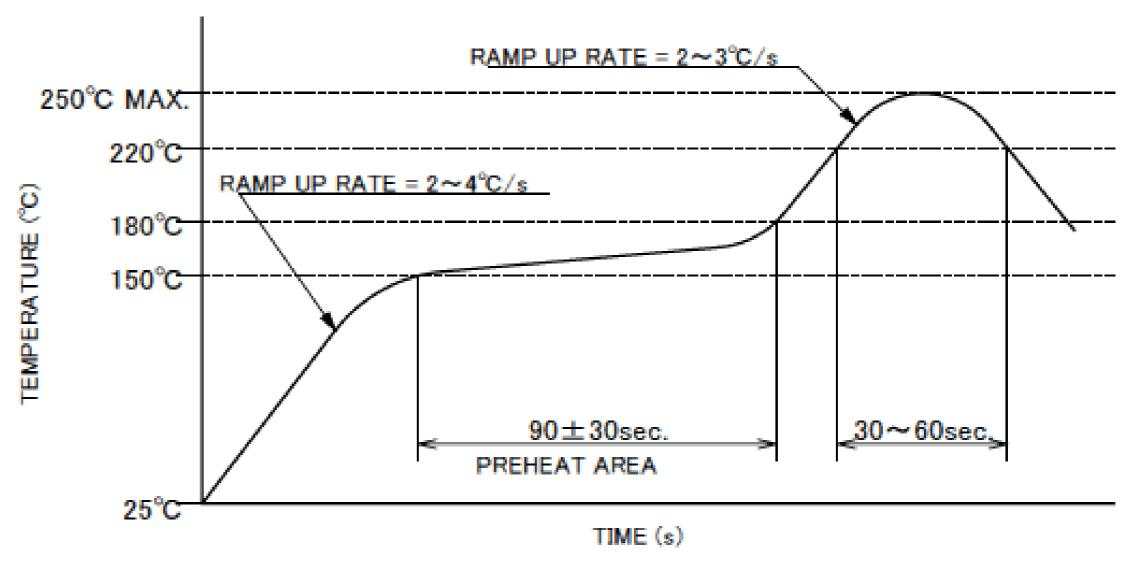
NOTES.

1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.



Plug Assembly





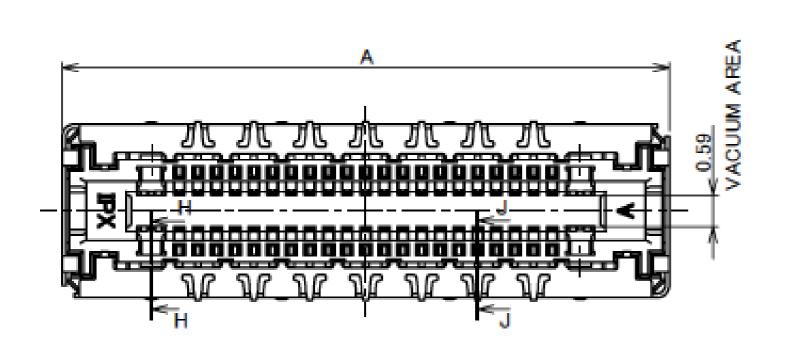
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

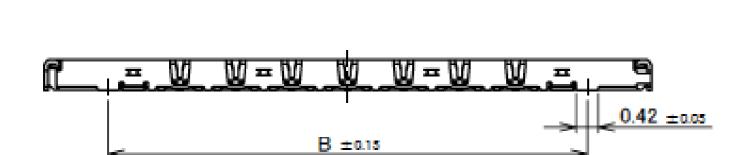
Rev.7

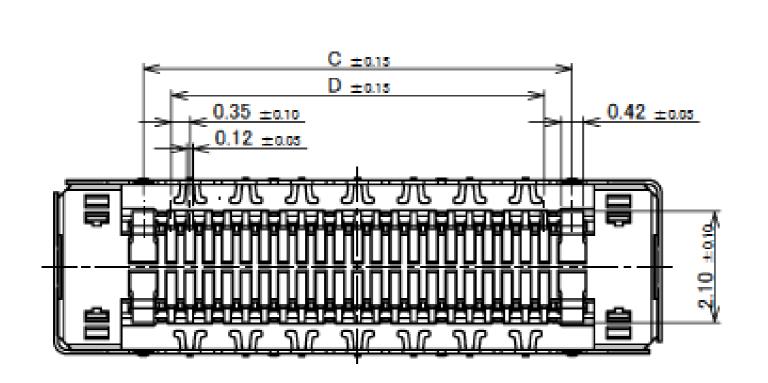
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20698-0**E-01*
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	2.2A AC/DC (PER CONTACT PIN)/ 8.8A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(−40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL: 40mohm MAX. / AFTER TEST: ∠40mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL: 20mohm MAX. / AFTER TEST: 20mohm MAX.
CONTACT RESISTANCE (FOR GROUND)	INITIAL: 20mohm MAX. / AFTER TEST: ∠20mohm MAX.
INSULATION RESISTANCE	INITIAL: 1,000Mohm MIN. / AFTER TEST: 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	1.0N × n + 4.0N MAX.
UNMATING FORCE (AFTER TEST)	0.1N×n + 0.4N MJN.
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) PST-16125 (5K/REEL)
INSTRUCTION MANUAL	HIM-15020
APPEARANCE CRITERIA No.	QLS-A***

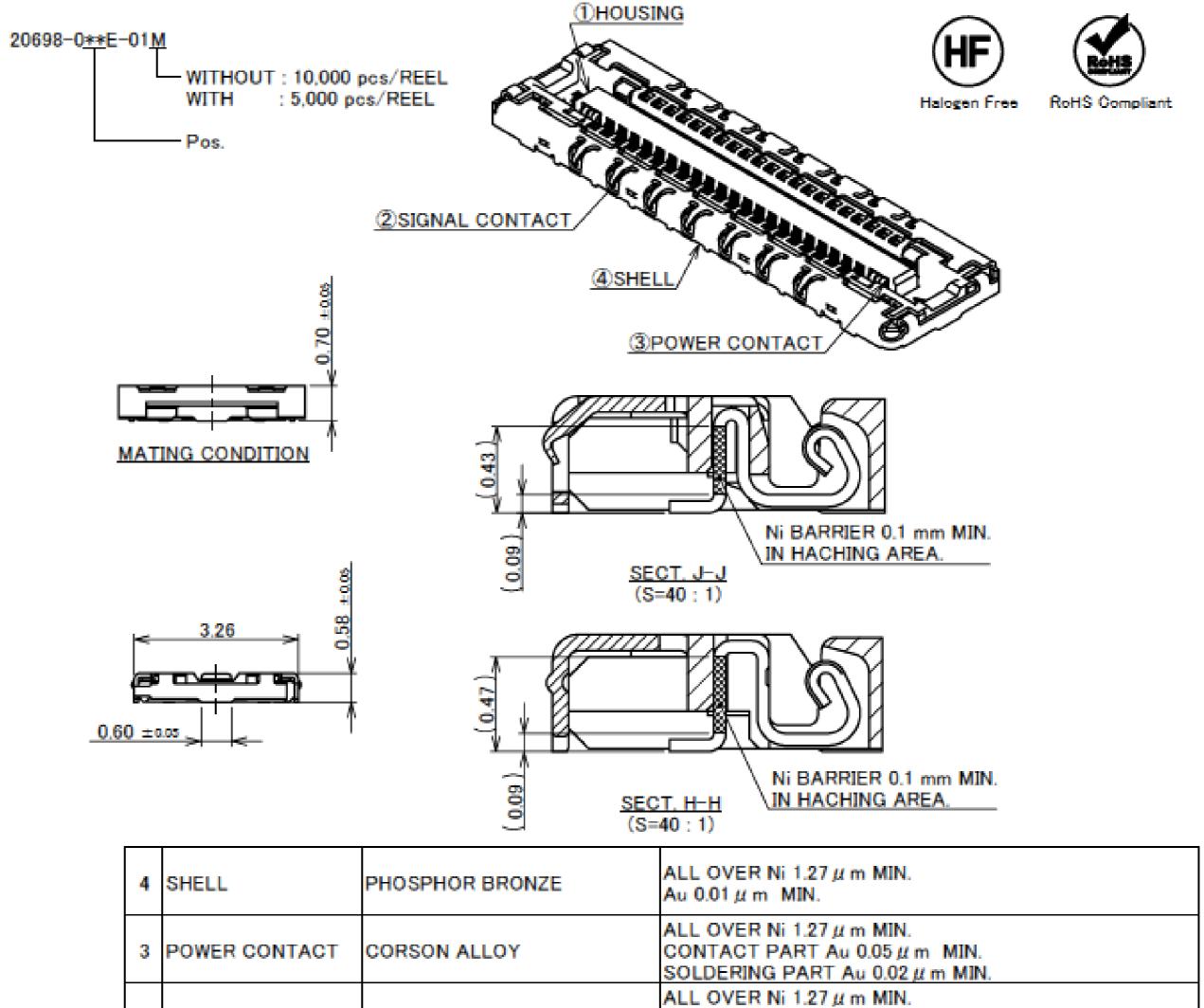


Recommended P/N		206	98-0**E-01	#			
PART No.	SIGNAL POS		POWER POS.	Α	В	С	D
20698-028E-01	28P		4P	8.95	6.54	5.60	4.55
20698-034E-01	34P		4P	10.00	7.59	6.65	5.60
20698-042E-01#	42P		4P	11.40	8.99	8.05	7.00
20698-056E-01#	56P		4P	13.85	11.44	10.50	9.45
20698-062E-01#	62P		4P	14.90	12.49	11.55	10.50









Rev.10

PART No.	SIGNAL POS.	POWER POS.
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

Pos.

2 SIGNAL CONTACT

DISCRIPTION

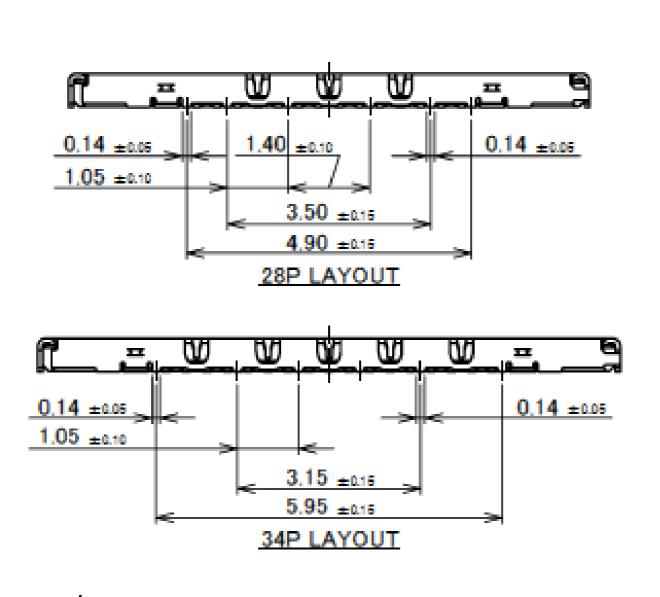
HOUSING

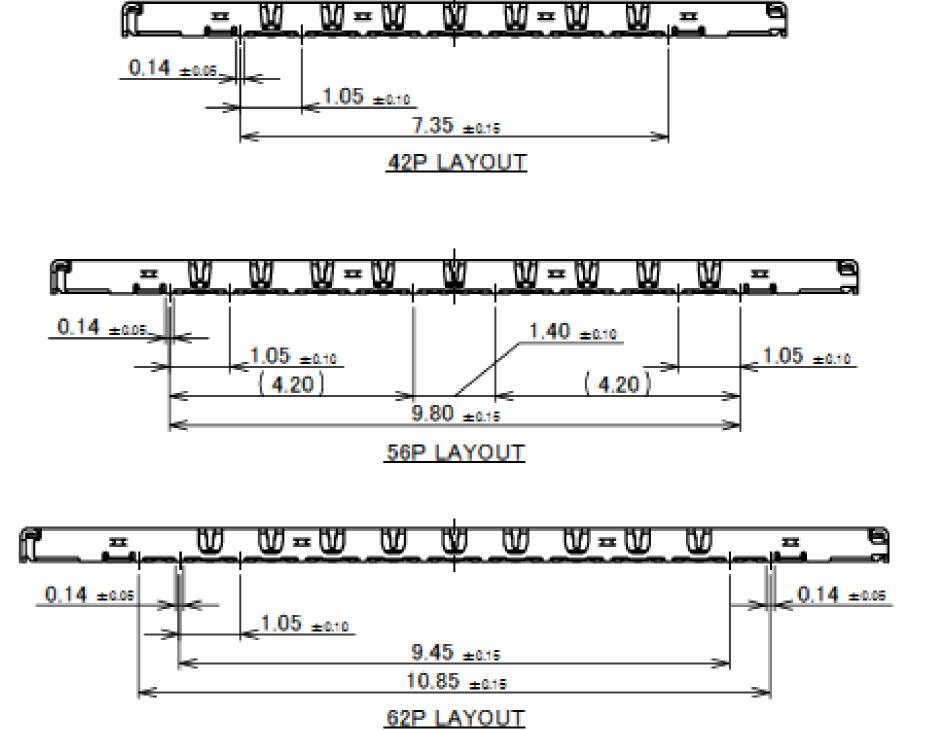
NO.

CORSON ALLOY

MATERIAL

LCP





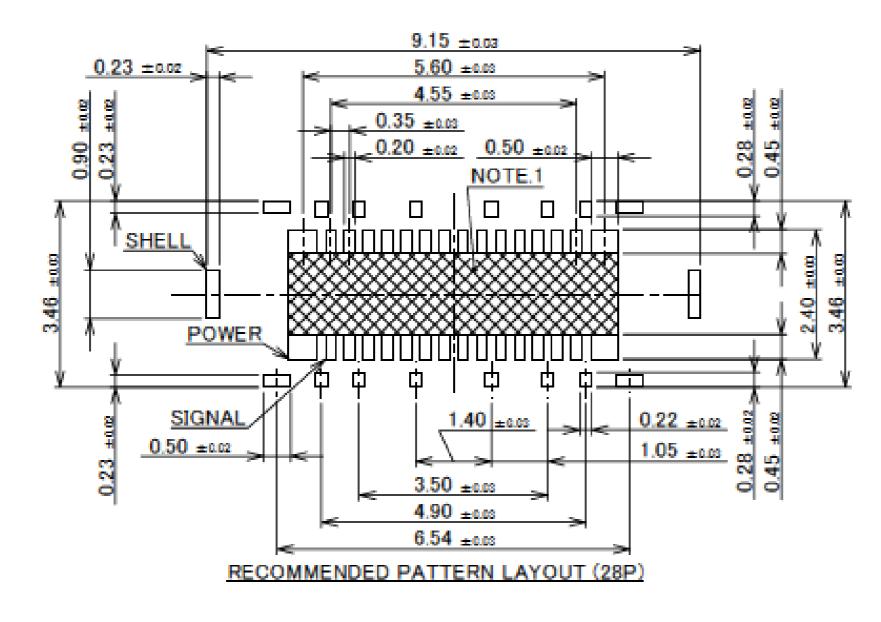
CONTACT PART Au 0.10 μ m MIN.

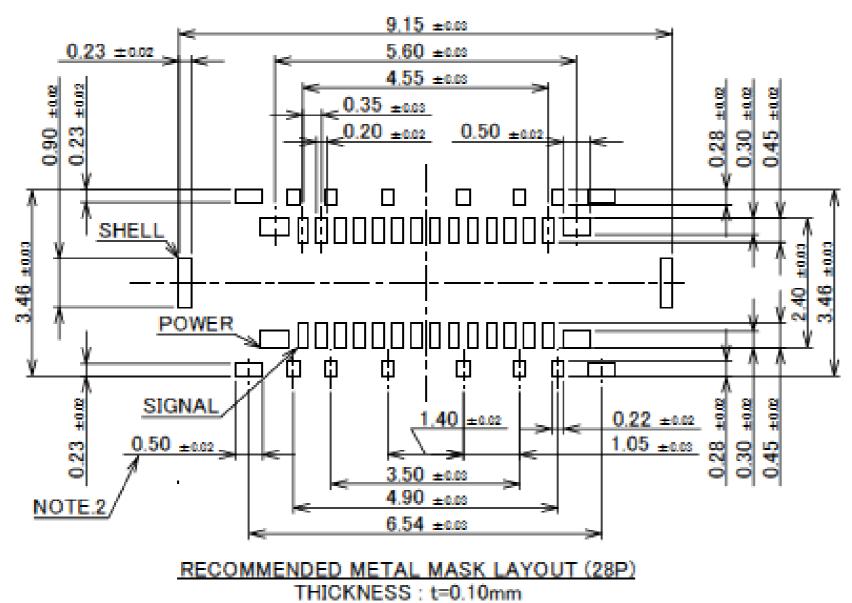
UL94V-0, BLACK

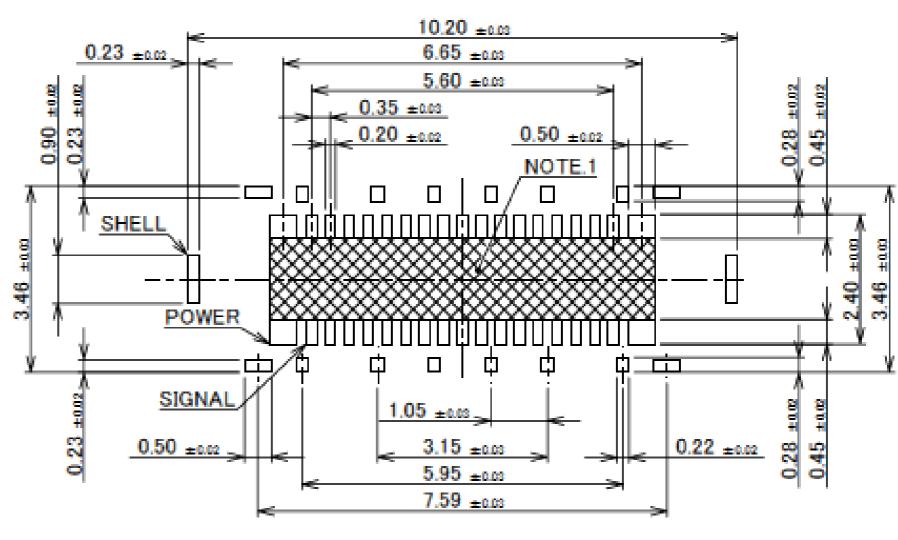
SOLDERING PART Au 0.02 μ m MIN.

FINISH, REMARKS

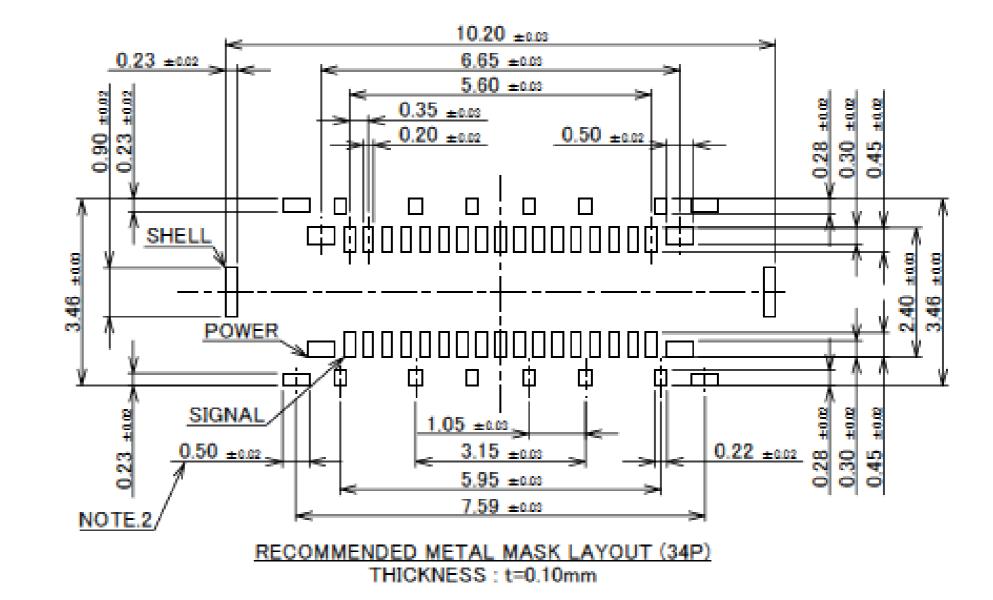








RECOMMENDED PATTERN LAYOUT (34P)

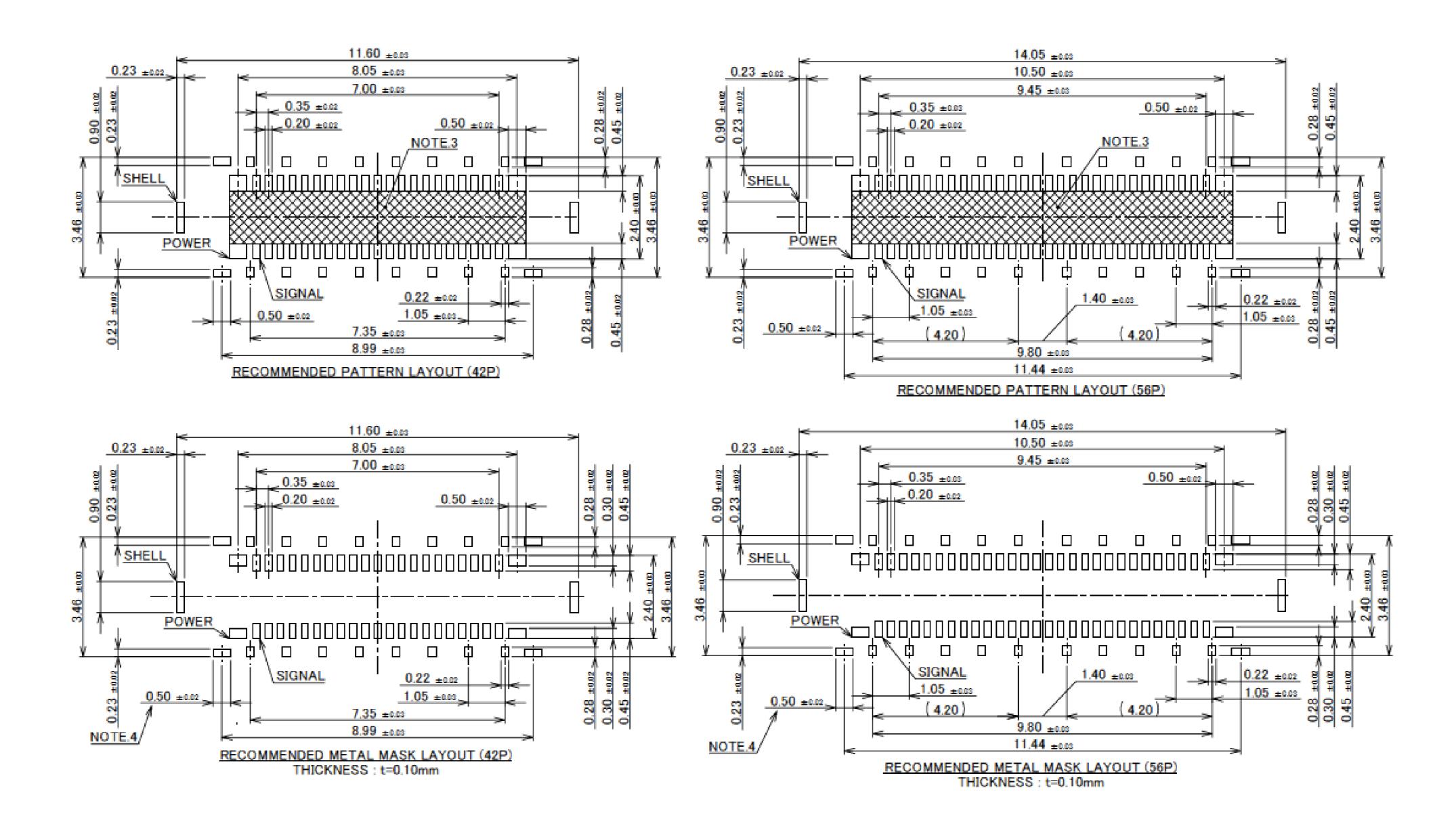


NOTES

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.10



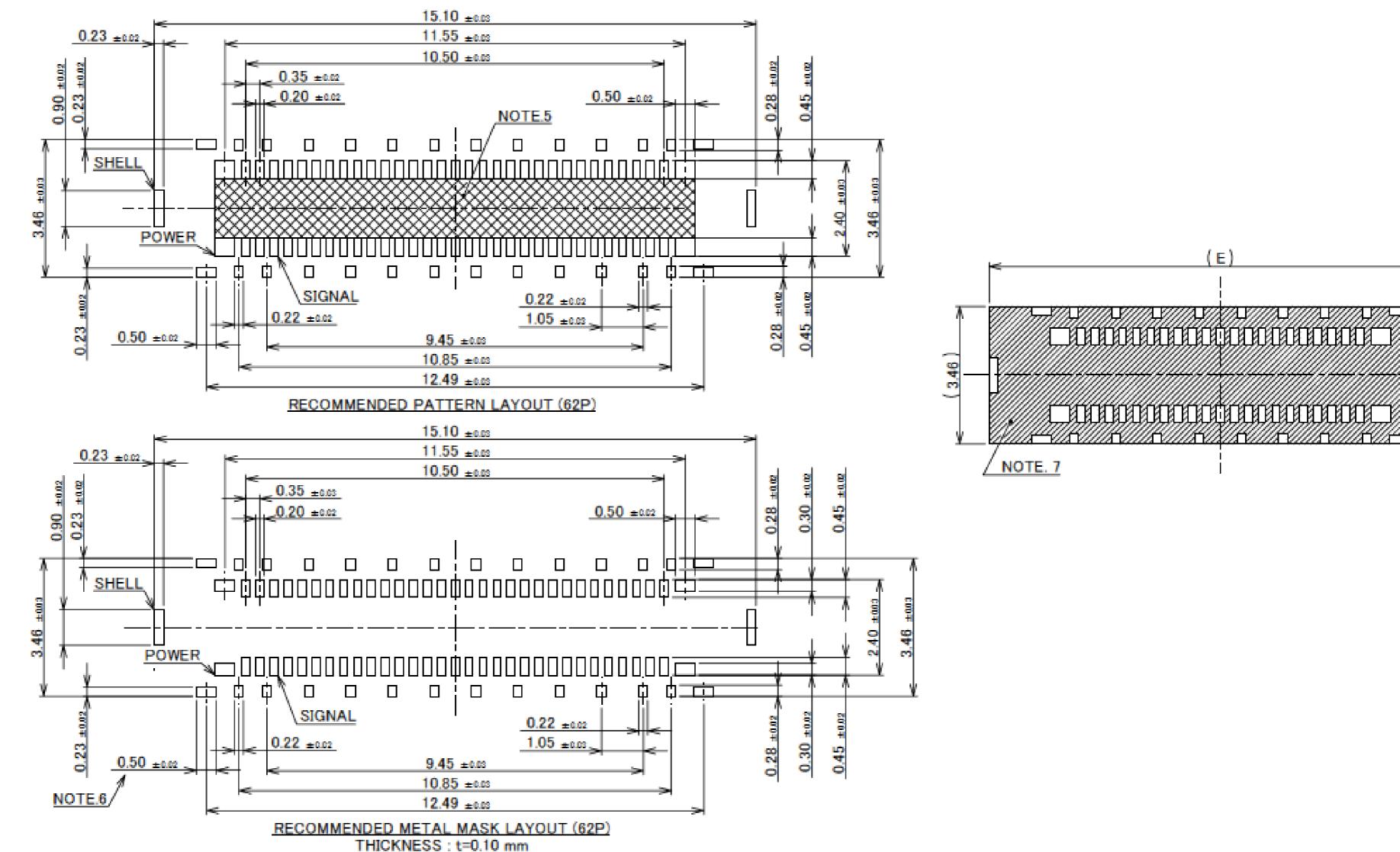
NOTES

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.



PART No.	SIGNAL POS.	POWER POS.	E
20698-028E-01	28P	4P	9.15
20698-034E-01	34P	4P	10.20
20698-042E-01#	42P	4P	11.60
20698-056E-01#	56P	4P	14.05
20698-062E-01#	62P	4P	15.10



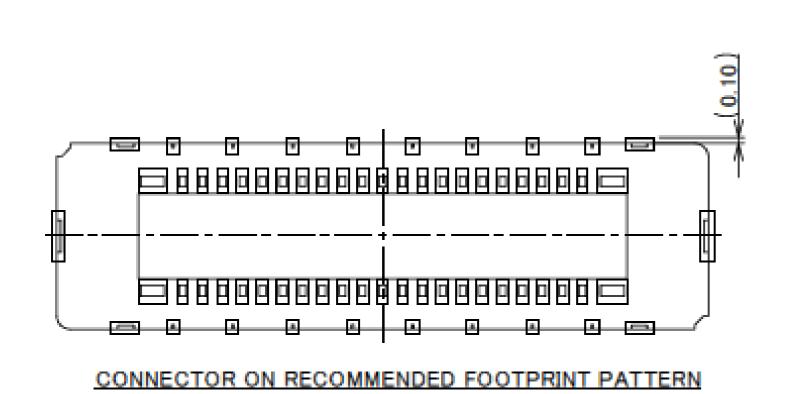
NOTES

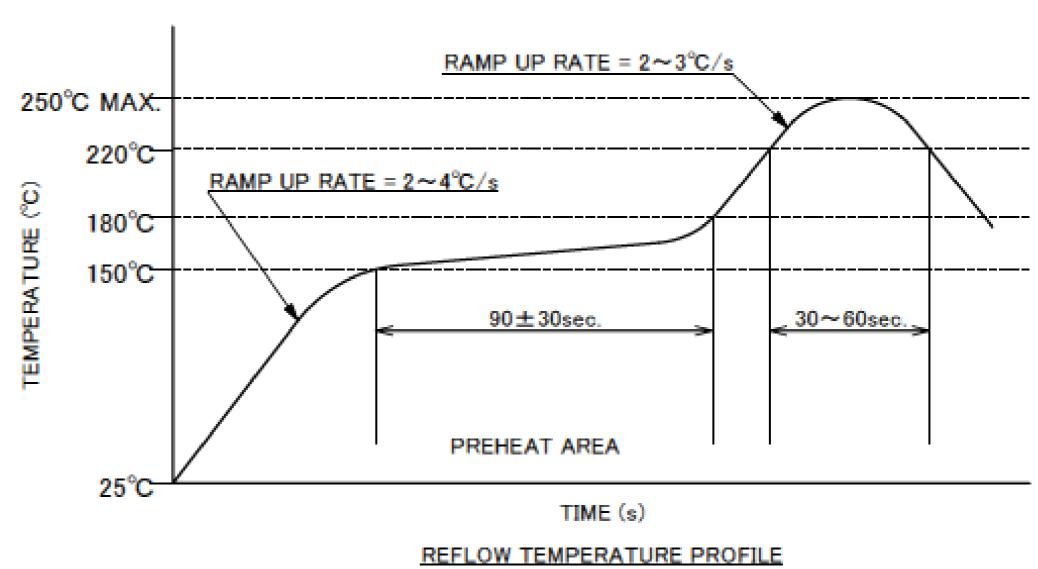
5. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

7. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.

Rev.10





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



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: 40mohm MAX.	
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL: 20mohm MAX. / AFTER TEST: 20mohm MAX.	
CONTACT RESISTANCE (FOR GROUND)	INITIAL: 20mohm MAX. / AFTER TEST: 20mohm MAX.	
INSULATION RESISTANCE	INITIAL: 1,000Mohm MIN. / AFTER TEST: 500Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min	
DURABILITY	30 CYCLES	
MATING FORCE (INITIAL)	1.0N×n + 4.0N MAX.	
UNMATING FORCE (AFTER TEST)	0.1N×n + 0.4N MIN.	
COPLANARITY	0.08 MAX.	
PRODUCT SPECIFICATION	PRS-2187	
TEST REPORT	TR-16014	
PACKING STANDARD	PST-15084 (10K/REEL) PST-16126 (5K/REEL)	
INSTRUCTION MANUAL	HIM-15020	
APPEARANCE CRITERIA No.	QLS-A***	

Rev.10





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