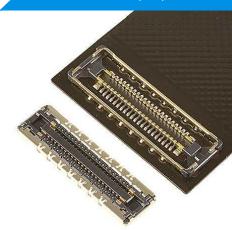
NOVASTACK® 35-HDP

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

Product Spe	ecifications:	
Board Pitch (mm)		0.35
Wiping Length (mm)		Signal contact : 0.11, Power contact : 0.13
Mated Size Width	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
Pin Counts	Range	6 - 76 (signal) + 4 (power)
	Available	28,34,42,56,62 /+ 4

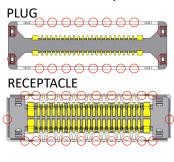
Applicable Standards (Reference Only):

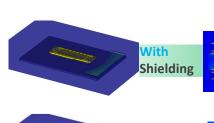
USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps)
eDP HBR 3 (8.1 Gbps) eDP HBR 2 (5.4 Gbps)
HDMI 2.0 (6 Gbps) V-By-One HS 1.4 (4 Gbps)

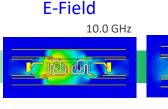


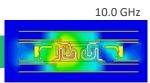
ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage

Ground SMT points

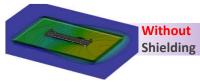






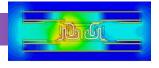


H-Field

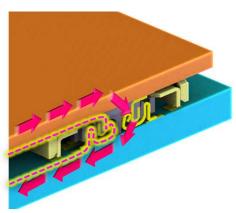


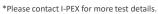


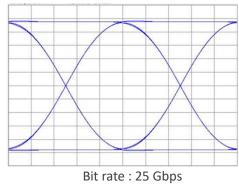
Eye pattern



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

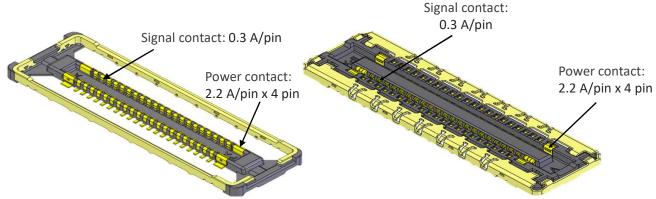






Rise time: 20 ps (10-90%) Input voltage: 800 mVp-p

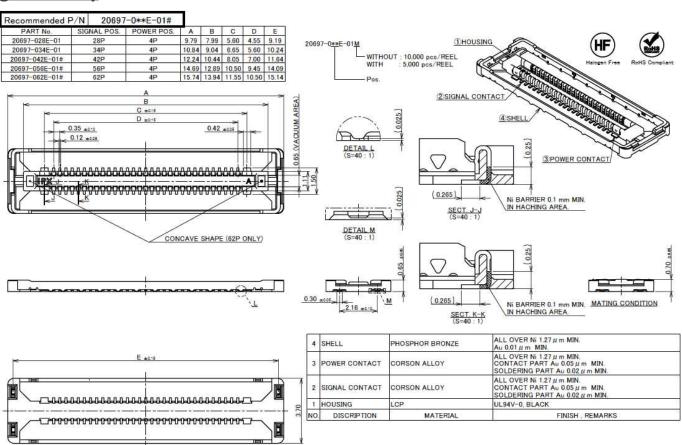
2.2 A power pin x 4 for power delivery



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

Component Parts Detail

Plug Assembly

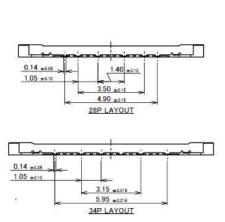


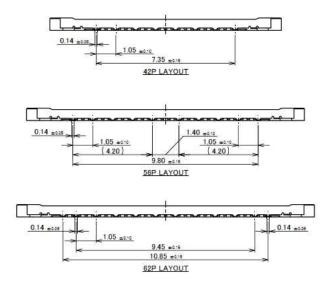


Plug Assembly

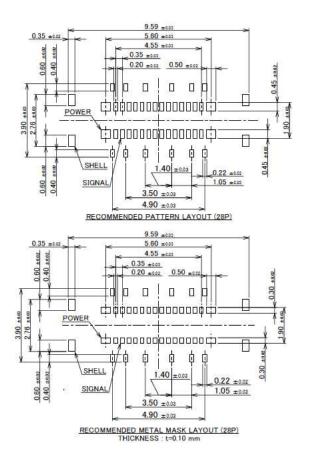
PART No.	SIGNAL POS.	POWER POS
20697-028E-01	28P	4P
20697-034E-01	34P	4P
20697-042E-01#	42P	4P
20697-056E-01#	56P	4P
20697-062E-01#	62P	4P

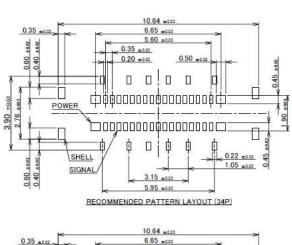


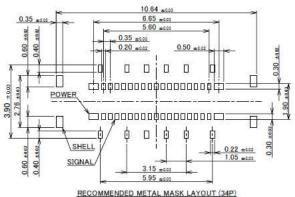




Rev.7

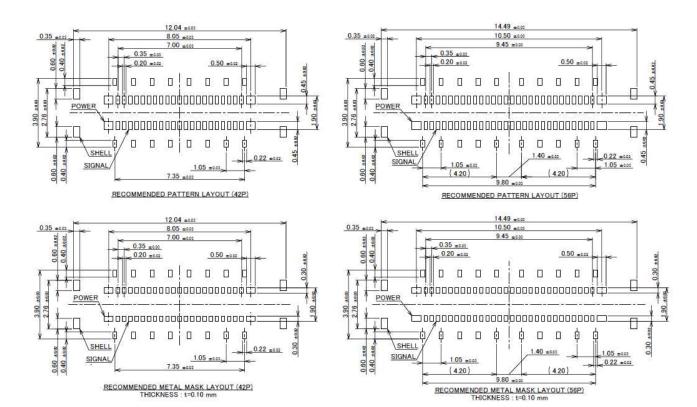






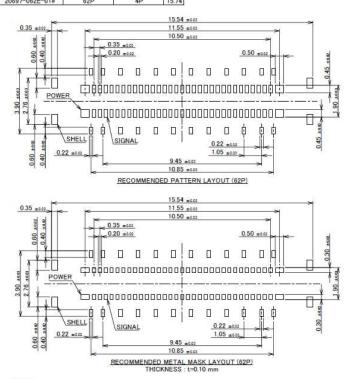


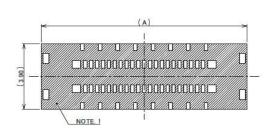
Plug Assembly



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
20607-0625-01#	ean	40	15.74





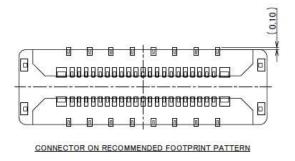
NOTES.

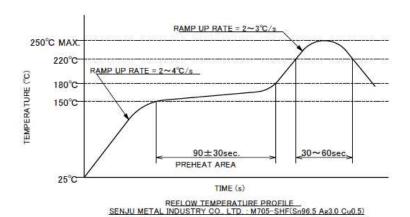
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS





Plug Assembly

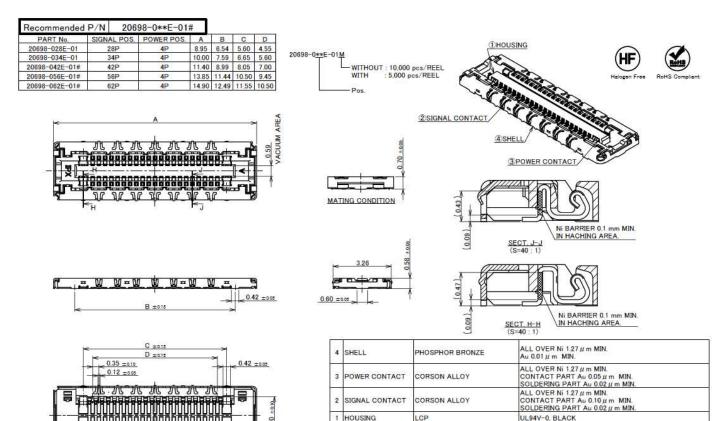




Rev.7

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: \(\square\) 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	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***	





NO.

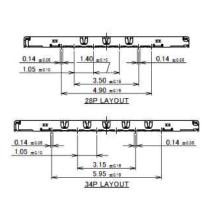
DISCRIPTION

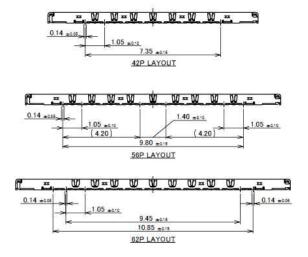
MATERIAL

Rev.9

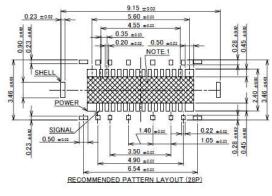
FINISH , REMARKS

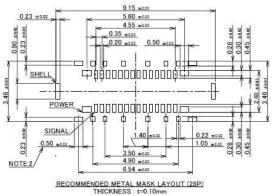
PART No.	SIGNAL POS.	POWER POS.	
20698-028E-01	28P	4P	20698-0**E-01M
20698-034E-01	34P	4P	70000 0 <u>17</u> C 01 <u>m</u>
20698-042E-01#	42P	4P	WITHOUT: 10,000 pcs/REEL
20698-056E-01#	56P	4P	WITH : 5,000 pcs/REEL
20698-062E-01#	62P	4P	Pos.

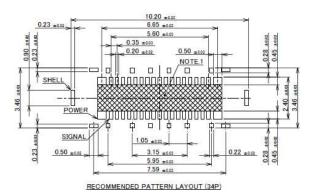


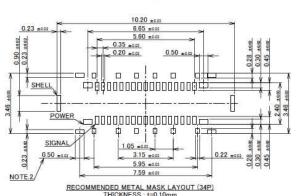








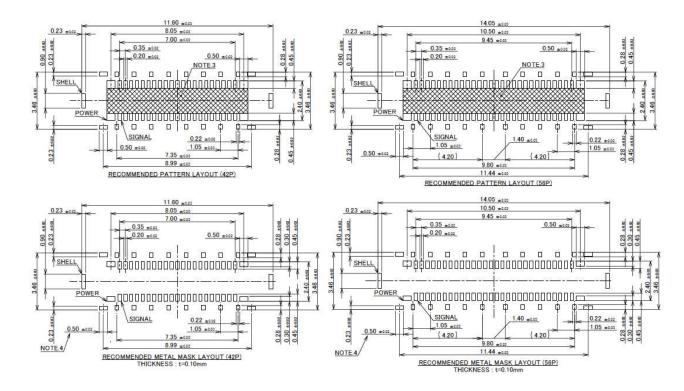




- NOTES.

 1. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES.
 ON THIS FOOT PRINT PATTERNPROHIBITION AREA.
 2. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

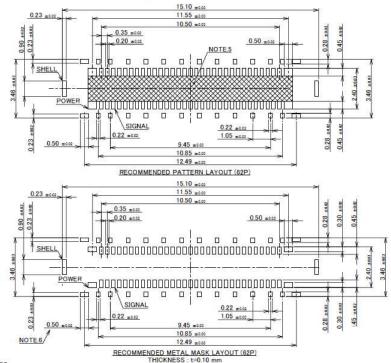
Rev 9



- NOTES.
 3. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES
 ON THIS FOOT PRINT PATTERNPROHIBITION AREA.
 4. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

I-PEX

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#	620	AD	15 10



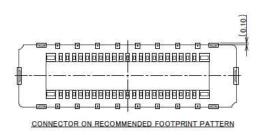
NOTE. 7

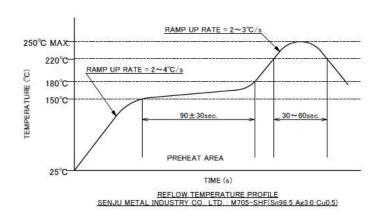
NOTES.

5. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOT PRINT PATTERNPROHIBITION AREA.

6. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm, 7. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev 9







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)
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OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
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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***







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