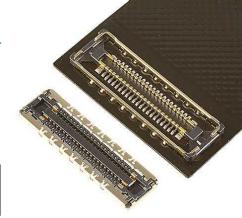
#### Board-to-Board (FPC) Connector

# **NOVASTACK® 35-HDP**

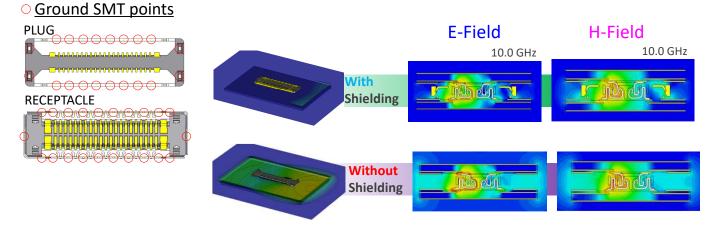
High-speed (20+ Gbps/lane) fully-shielded with power contacts, 0.35 mm pitch, 0.7 mm height

Product Sp	ecifications:			
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	Applicable Standards (Reference Only):	
Current Rating	Signal	0.3 A/pin	USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps)	
	Power	2.2 A/pin x 4	eDP HBR 3 (8.1 Gbps) eDP HBR 2 (5.4 Gbps)	
Pin Counts	Range	6 - 76 (signal) + 4 (power)	HDMI 2.0 (6 Gbps) V-By-One HS 1.4 (4 Gbps) MiPi standards	
	Available	28,34,42,56,62 /+ 4		

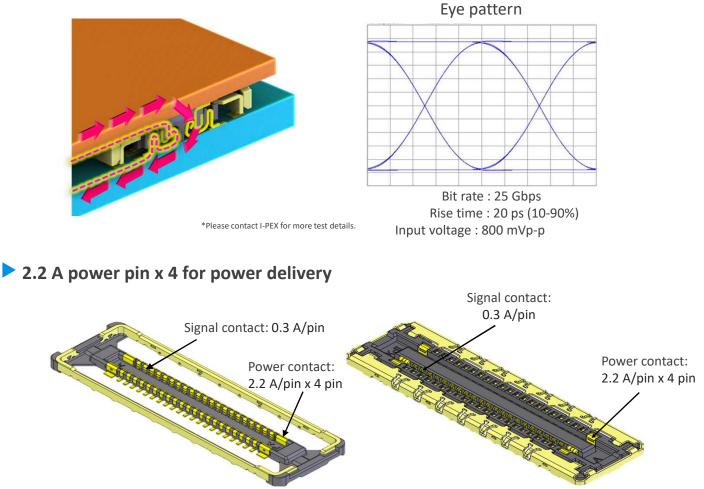


\* Please inquire for pin counts not listed or outside of the pin count range.

### ZenShield<sup>®</sup> fully-shielded with multi-point grounds to prevent EMI leakage

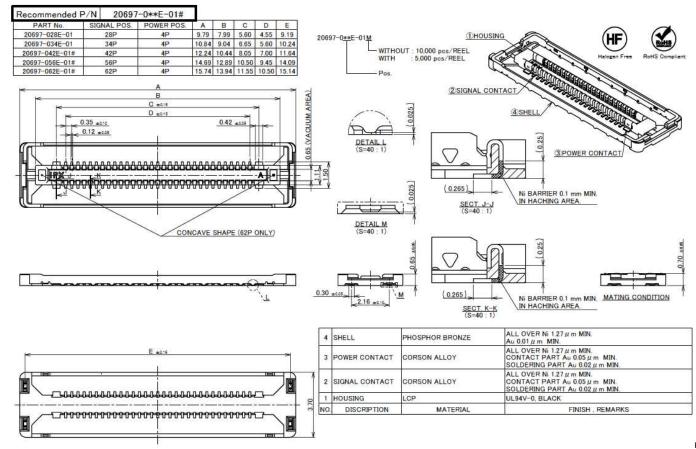


Ideal for high-speed transmission e.g. USB4 / Thunderbolt 4 (20+ Gbps / lane)



## **Component Parts Detail**

#### **Plug Assembly**

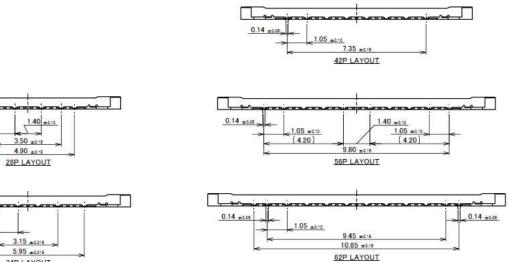


### **I-PEX**

#### **Plug Assembly**

No.	SIGNAL POS.	POWER POS.	
8E-01	28P	4P	20697
4E-01	34P	4P	
2E-01#	42P	4P	
E-01#	56P	4P	
E-01#	62P	4P	

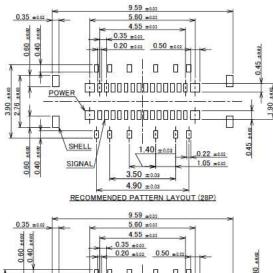
7-0<u>\*\*</u>E-01<u>M</u> WITHOUT : 10.000 pcs/REEL WITH : 5,000 pcs/REEL Pos

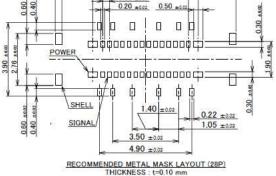


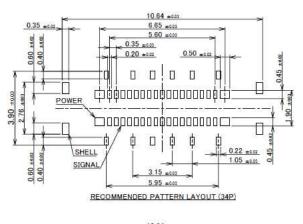


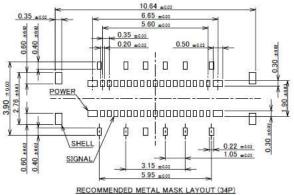






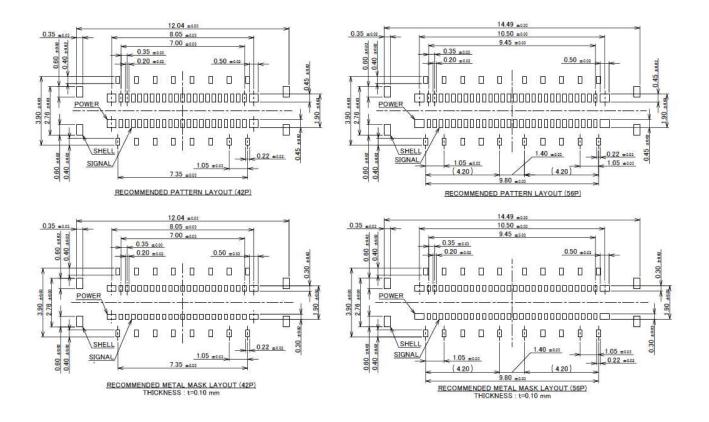


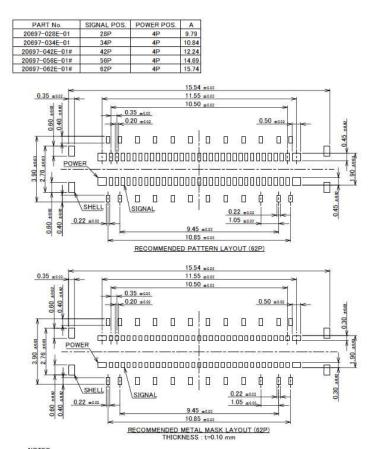


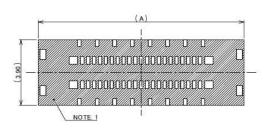


I-PEX

#### **Plug Assembly**



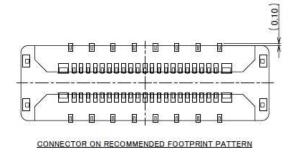


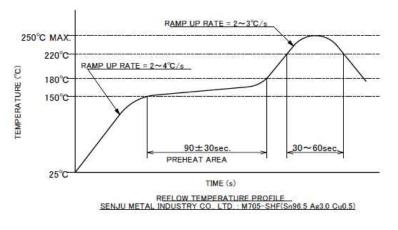


NOTES. 1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.



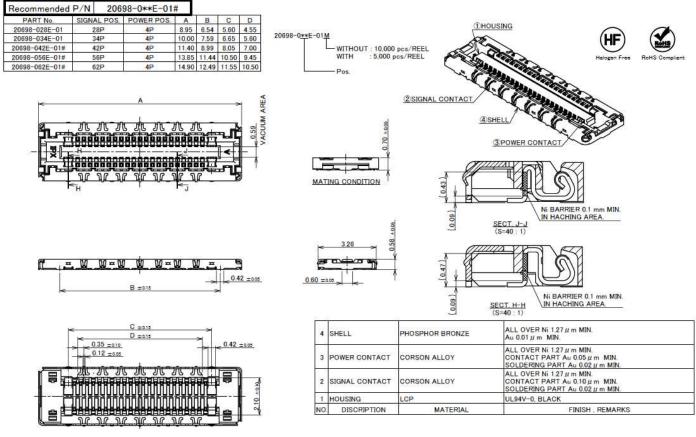
Rev 7

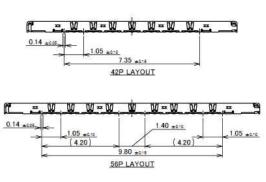


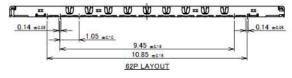


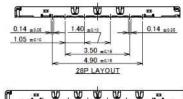
ITEMS	SPECIFICATION	
APPLICABLE CONNECTOR PART No.	20698-0**E-01*	
RATING VOLTAGE	60V AC (PER CONTACT PIN)	
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)	
RATING AMPERAGE (FOR POWER CONTACT)	2.2A AC/DC (PER CONTACT PIN)/ 8.8A AC/DC(TOTAL)	
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)	
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)	
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : 240mohm 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	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***	

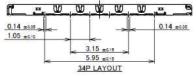
Rev.7





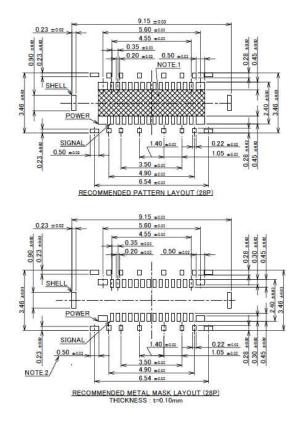


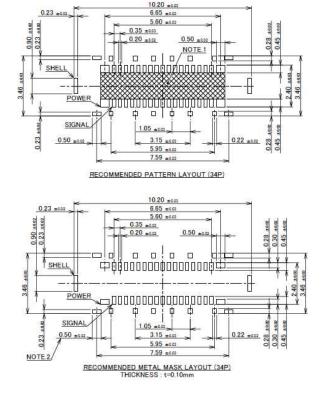




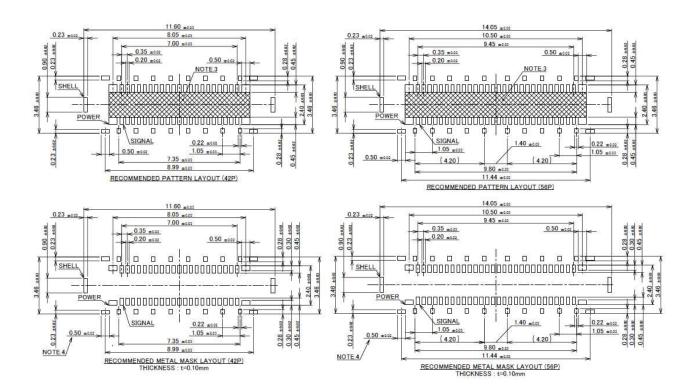
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Rev.9





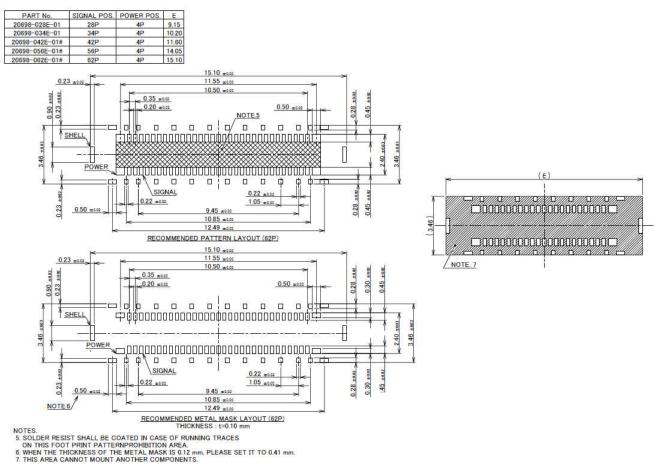
NOTES. 1. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOT PRINT PATTERNPROHIBITION AREA. 2. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.



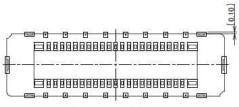
NOTES. 3. SOLDER RESIST SHALL BE COATED IN CASE OF RUNNING TRACES ON THIS FOOT PRINT PATTERNPROHIBITION AREA. 4. WHEN THE THICKNESS OF THE METAL MASK IS 0.12 mm, PLEASE SET IT TO 0.41 mm.

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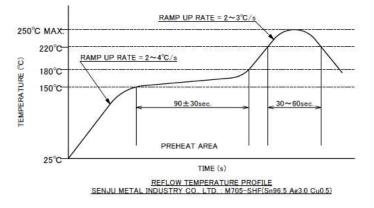
Rev 9



Rev 9



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



I-PEX

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 : 240mohm 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***	





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