

# NOVASTACK® 35-HDH

1.5 mm height, 0.35 mm pitch, Fully-shielded and high-profile design, High-speed 20 GHz ( $\approx$  40 Gbps)/lane transmission

**Product Specifications:**

Board Pitch (mm)	0.35	
Wiping Length (mm)	0.33	
Mated Size (mm)	Height	1.5 +/- 0.10
	Width	3.3+(0.35*?p/2)
	Depth	3.64
Current Rating	Signal	0.5A/pin (12.0A Max. (Total))
	Power	-
Pin Counts	Range	10 - 60
	Available	60

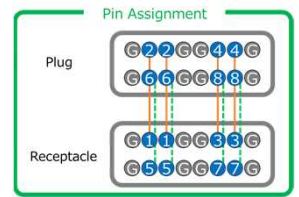
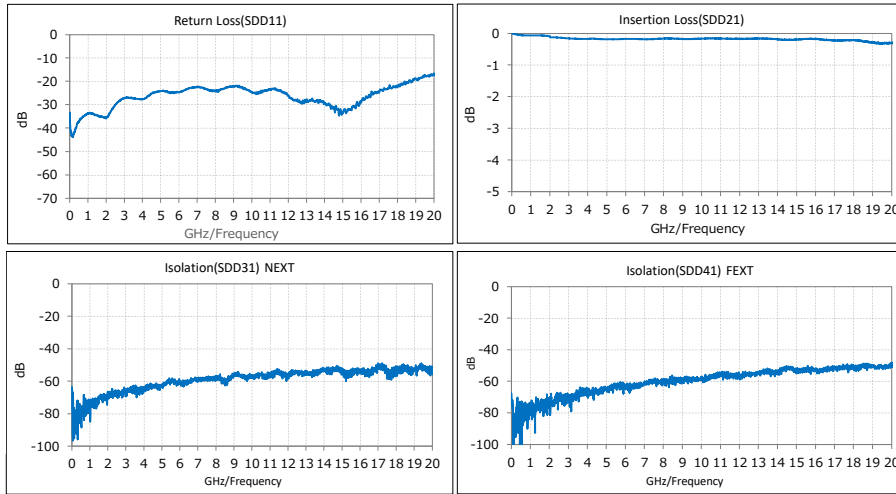
\* Please inquire for pin counts not listed or outside of the pin count range.

**Applicable Standards (Reference Only):**

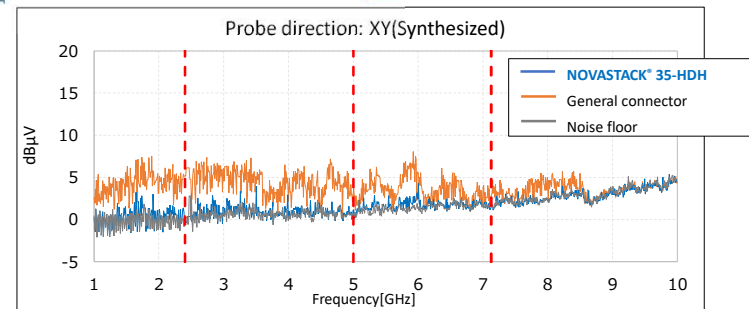
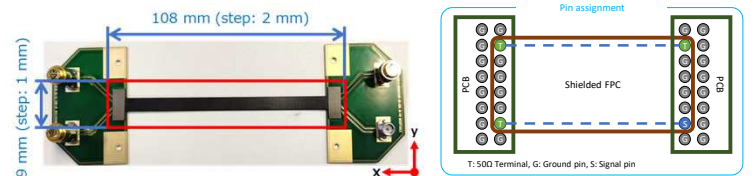
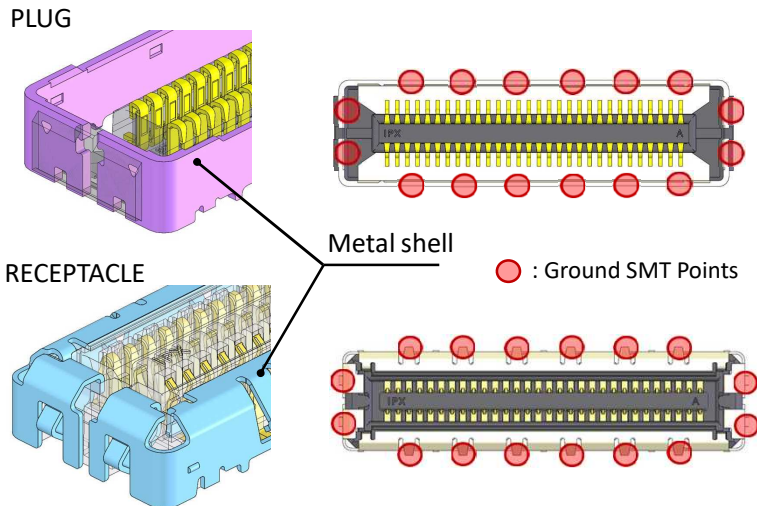
USB4 (20 Gbps/lane); USB 3.1 Gen 2 (10 Gbps); eDP HBR 3 (8.1 Gbps); eDP HBR 2 (5.4 Gbps); HDMI 2.0 (6 Gbps); V-By-One HS 1.4 (4 Gbps); MiPi standards



▶ Capable of 20 GHz ( $\approx$  40 Gbps)/lane transmission, ideal for the latest high-speed signals



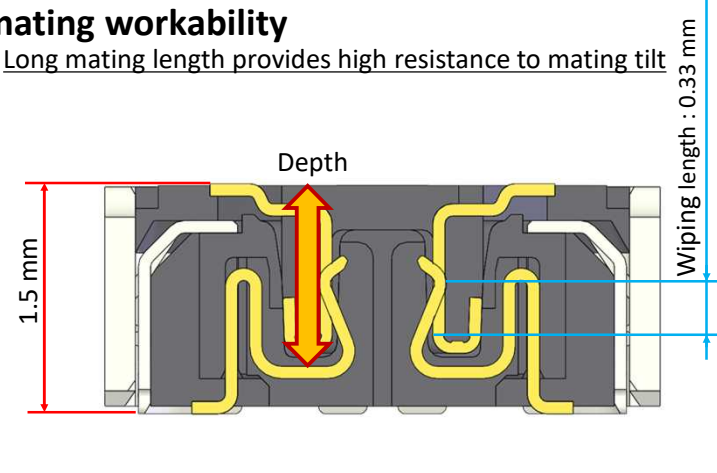
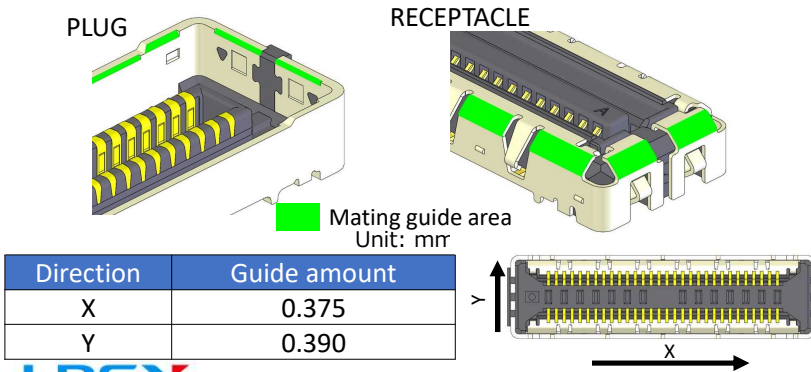
▶ ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage



▶ High-profile connector designed for excellent mating workability

Guide to the proper mating position with large guide

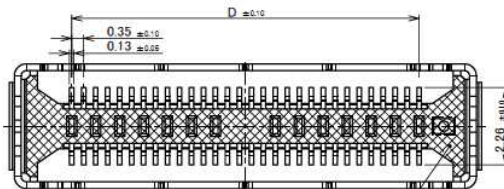
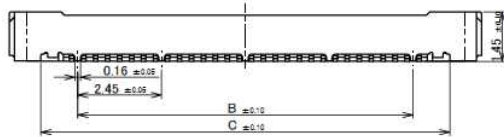
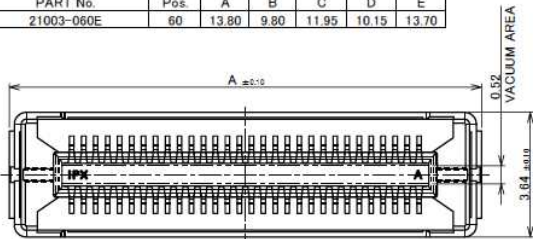
Long mating length provides high resistance to mating tilt



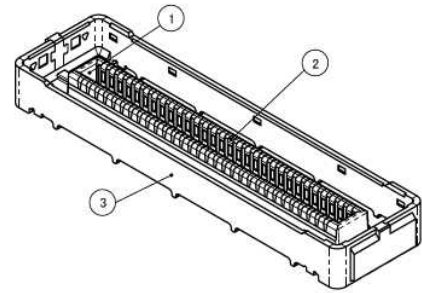
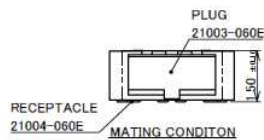
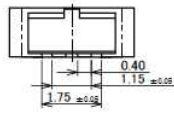
# Component Parts Detail

## Plug Assembly

PART No.	Pos.	A	B	C	D	E
21003-060E	60	13.80	9.80	11.95	10.15	13.70

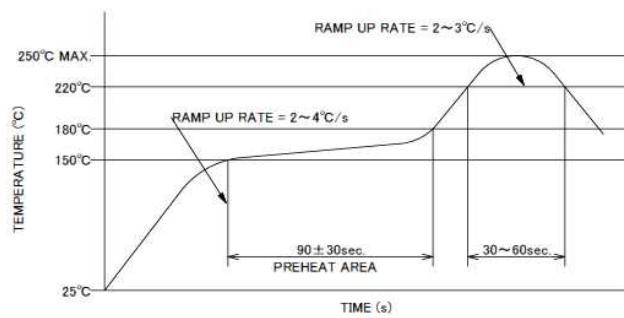
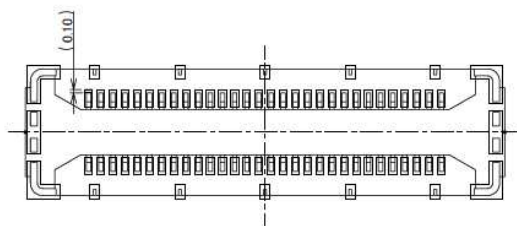
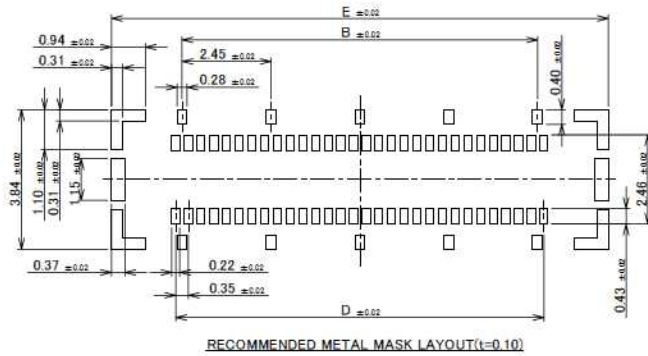
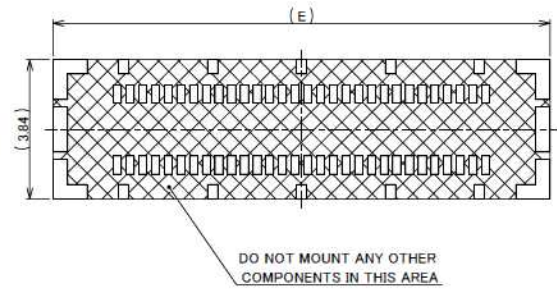
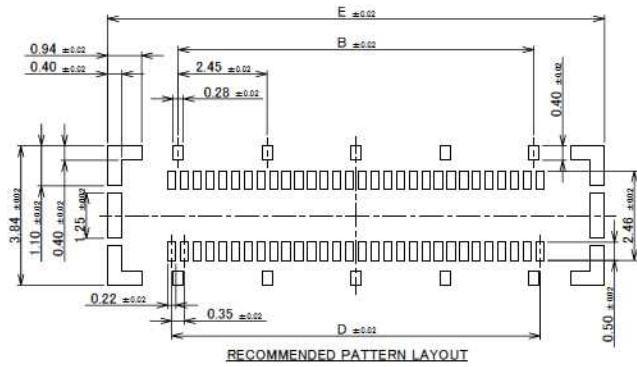


THERE IS A POSSIBILITY OF DENT SHAPE IN THE BOTTOM SURFACE OF HOUSING.



NO.	DESCRIPTION	MATERIAL	FINISH, REMAKS
3	SHELL	CORSON ALLOY	ALL OVER Ni 1.27 μm MIN. Au 0.01 μm MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.13 μm MIN. OVER Ni 1.27 μm MIN. SOLDERING AREA: Au 0.02 μm MIN. OVER Ni 1.27 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK

# Plug Assembly



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

Rev.0

Rev.0

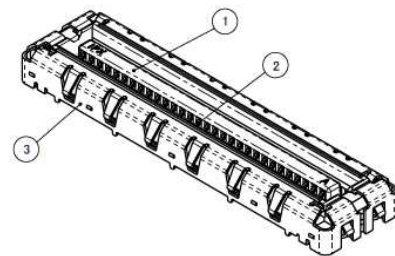
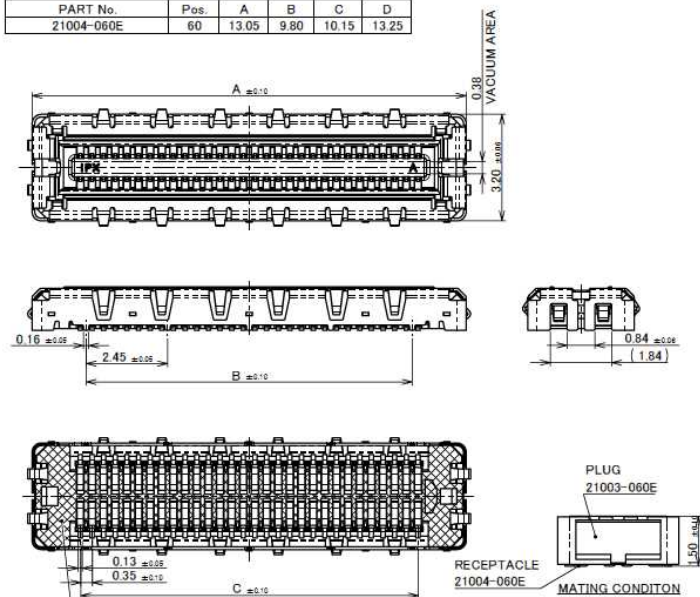
# Plug Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	21004-060E
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.5A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C) (CONTANING TEMPERATURE RISE BY CURRENT)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 50mohm MAX. / AFTER TEST : <math>\triangle</math>150mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 1000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL 60N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	20 CYCLES 6.0N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2785
TEST REPORT	TR-22021
PACKING STANDARD	PST-21086
INSTRUCTION MANUAL	HIM-21015
APPEARANCE CRITERIA No.	QLS-A***

Rev.0

# Receptacle Assembly

PART No.	Pos.	A	B	C	D
21004-060E	60	13.05	9.80	10.15	13.25

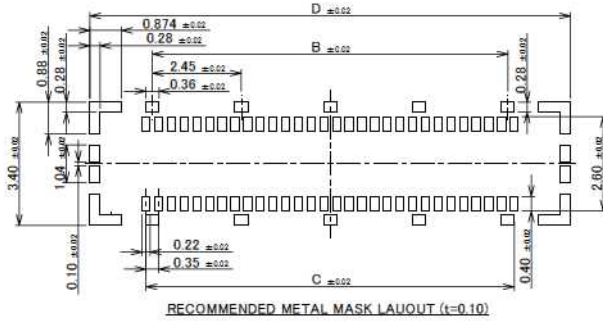
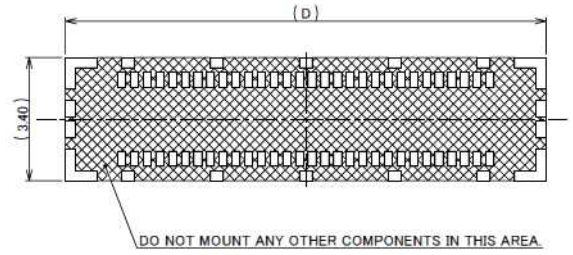
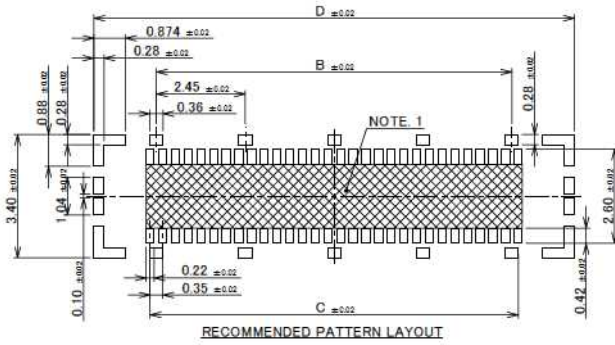


THERE IS A POSSIBILITY OF DENT SHAPE IN THE BOTTOM SURFACE OF HOUSING.

3	SHELL	CORSON ALLOY	ALL OVER Ni 1.27 $\mu$ m MIN. Au 0.01 $\mu$ m MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.13 $\mu$ m MIN. OVER Ni 1.27 $\mu$ m MIN. SOLDERING AREA: Au 0.02 $\mu$ m MIN. OVER Ni 1.27 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0 BLACK
NO.	DESCRIPTION	MATERIAL	FINISH. REMAKS

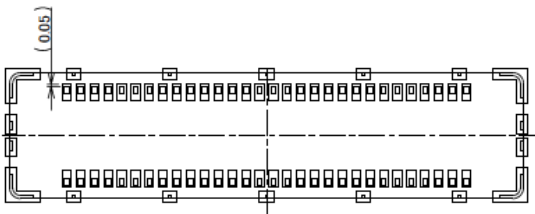
Rev.0

# Receptacle Assembly

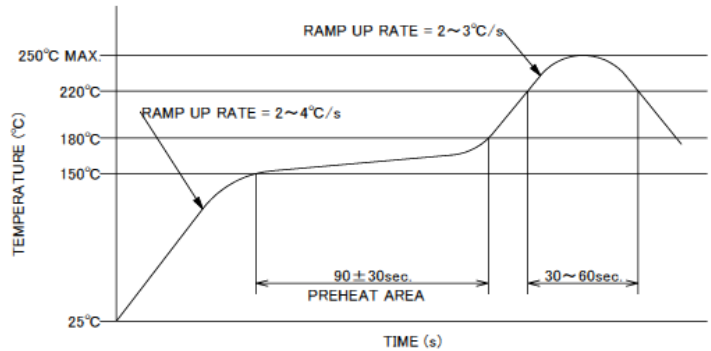


NOTES:  
 1. FOOT PRINT PATTERN PROHIBITION AREA  
 SOLDER RESIST MUST BE APPLIED TO THIS HATCHED AREA IF SURFACE TRACE

Rev.0



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN LAYOUT



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

## Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	21003-060E
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.5A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C) (CONTANING TEMPERATURE RISE BY CURRENT)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 50mohm MAX. / AFTER TEST : $\leq$ 50mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 1000Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL 60N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	20 CYCLES 6.0N MIN.
COPLANARITY	0.10mm MAX
PRODUCT SPECIFICATION	PRS-2785
TEST REPORT	TR-22021
PACKING STANDARD	PST-21087
INSTRUCTION MANUAL	HJM-21015
APPEARANCE CRITERIA No.	QLS-A***

Rev.0

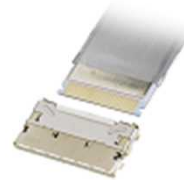
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Effector



Power



High-Power



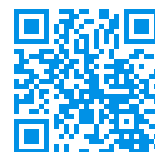
I/O (Input/Output)



Quick charge



Inquiry



Custom Connectors Available



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