NOVASTACK® 35-HDN

Ideal for 5G mmWave antenna module and devices, fully-shielded and narrow design, Power supply is available with Corson Alloy contact, 0.35 mm pitch, 0.7 mm height



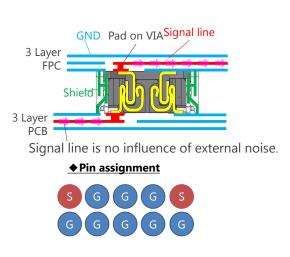
- ✓ Ideal for high frequency applications (5G mmWave, USB4 / Thunderbolt 3, etc.)
- ✓ ZenShield[™] fully-shielded design, decreases EMI issue caused by 5G applications
- ✓ Narrow depth and low height, fully shielded board-to-board connector

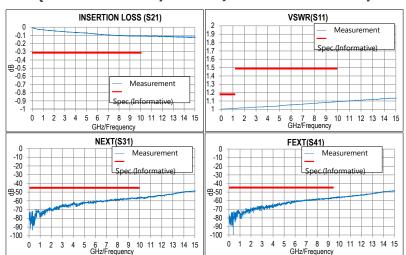
Pin counts	··
Range	Up to 60
Available	10, 20, 30

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

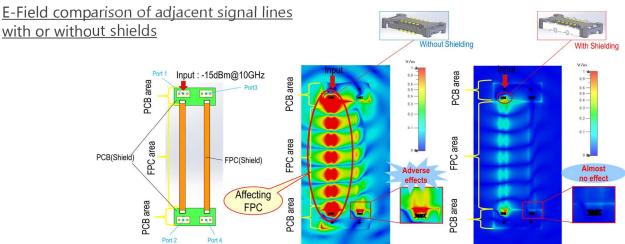
Mating type		Board-to-board (FPC)
Board pitch (mm)		0.35
	Height	0.7 +/- 0.05
Mated size (mm)	Width (mm)	4.15 (10P) 5.90 (20P) 7.90 (30P)
	Depth	2.15 mm
Current Rating	Signal Pin	1.0A / Pin (Max. 10P) (12 pin and over : 12.0 A AC/DC (Total))
Performance (Reference only)		USB [®] 3.1 (10 Gbps) Thunderbolt 3 (20 Gbps) mmWave for 5G (15 GHz)

Ideal for high frequency applications (5G mmWave, USB4 / Thunderbolt 3, etc.)





ZenShield™ fully-shielded design, decreases EMI issue caused by 5G applications

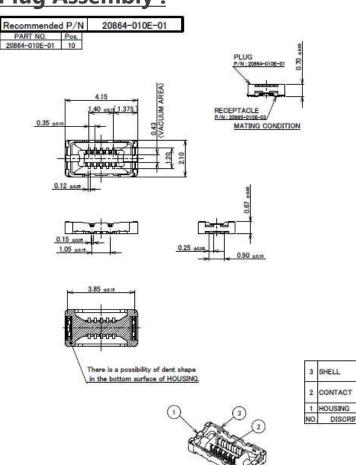


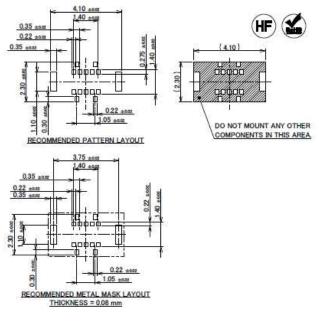
Narrow depth and low height, fully-shielded board-to-board connector



NOVASTACK® 35-HDN Component Parts Detail

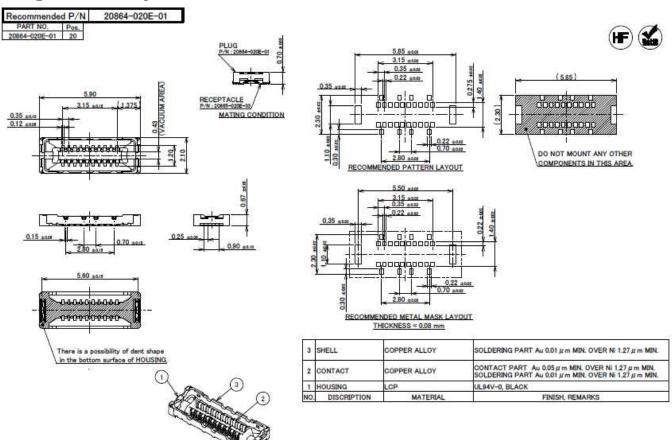
Plug Assembly:





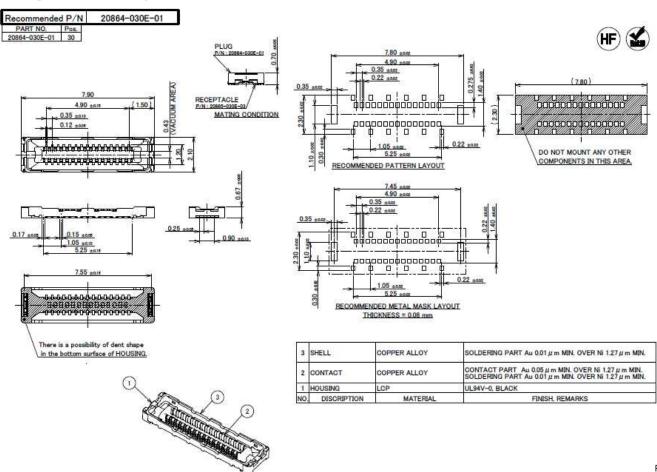
NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
1	HOUSING	LCP	UL94V-0, BLACK
2	CONTACT	COPPER ALLOY	CONTACT PART $_{\rm AU}$ 0.05 μ m MIN. OVER Ni 1.27 μ m MIN. SOLDERING PART $_{\rm AU}$ 0.01 μ m MIN. OVER Ni 1.27 μ m MIN.
3	SHELL	COPPER ALLOY	SOLDERING PART Au 0.01 μ m MIN. OVER Ni 1.27 μ m MIN.

Plug Assembly:

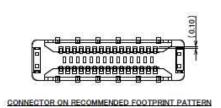


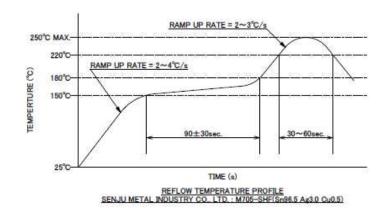
Rev.8

Plug Assembly:



Plug Assembly:



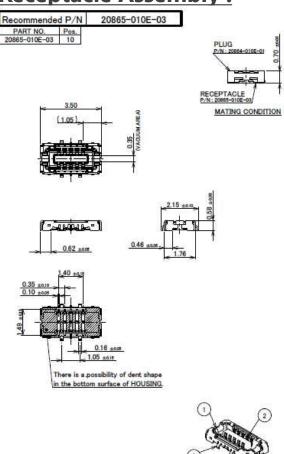


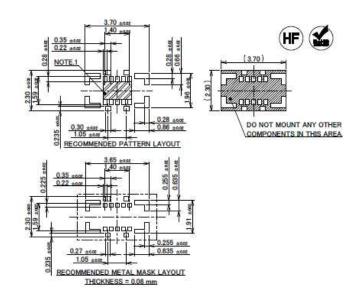
Rev.8

Plug Assembly:

ITEMS	SPECIFICATION
RATING VOLTAGE	60V AC(r.m.s) / DC (PER A CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	10P:1.0 A MAX. AC/DC x PIN COUNTS = 10.0 A (TOTAL) 12P AND OVER: 12.0 A AC/DC (TOTAL)
OPERARING TEMPERATURE	233~358K(-40°C~85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL: 40mohm MAX. / AFTER TEST: △40mohm MAX.
CONTACT RESISTANCE (FOR GROUND)	INITIAL: 20mohm MAX. / AFTER TEST: \(\delta 20mohm MAX. \)
INSULATION RESISTANCE	INITIAL: 1,000Mohm MIN. / AFTER TEST: 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	10 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL 2.0N/Pin MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	10 CYCLES 0.15N/Pin MIN.
COPLANARITY	0.08 MAX
PRODUCT SPECIFICATION	PRS-2607
TEST REPORT	TR-19055
PACKING STANDARD	PST-18022
INSTRUCTION MANUAL	HIM-18019
APPEARANCE CRITERIA No.	QLS-A***

Receptacle Assembly:





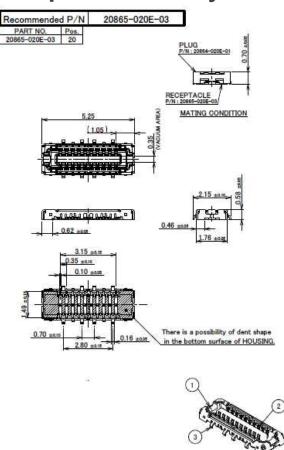
NOTES.

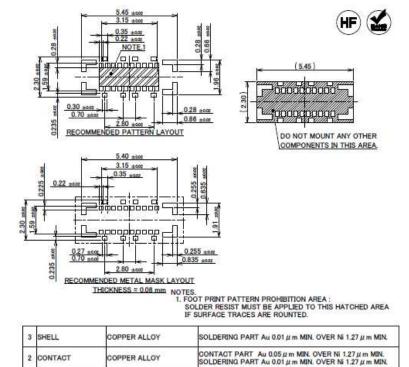
1. FOOT PRINT PATTERN PROHIBITION AREA:
SOLDER RESIST MUST BE APPLIED TO THIS HATCHED AREA
IF SURFACE TRACES ARE ROUNTED.

NO.	DISCRIPTION	MATERIAL	FINISH, REMARKS
1	HOUSING	LCP	UL94V-0 BLACK
2	CONTACT	COPPER ALLOY	CONTACT PART. Au 0.05 μ m MIN, OVER Ni 1.27 μ m MIN. SOLDERING PART Au 0.01 μ m MIN. OVER Ni 1.27 μ m MIN.
3	SHELL	COPPER ALLOY	SOLDERING PART Au 0.01 μm MIN. OVER Ni 1.27 μm MIN.

Rev.8

Receptacle Assembly:





UL94V-0 BLACK

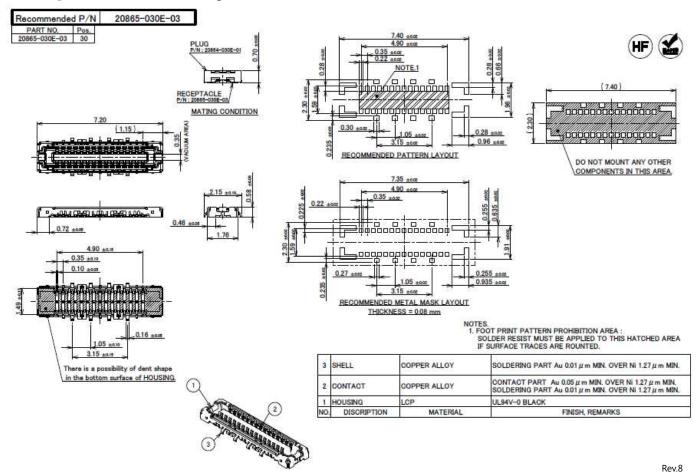
MATERIAL

HOUSING

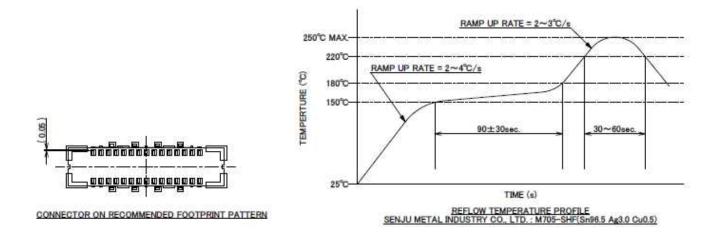
DISCRIPTION

FINISH, REMARKS

Receptacle Assembly:



Receptacle Assembly:



Receptacle Assembly:

ITEMS	SPECIFICATION
RATING VOLTAGE	60V AC(r.m.s) / DC (PER A CONTACT)
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OPERARING TEMPERATURE	233~358K(-40°C~85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : 240mohm 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	10 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL 2.0N/Pin MAX.
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Rev.8



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Contact your sales representative for more detailed information. [i-pex.com]