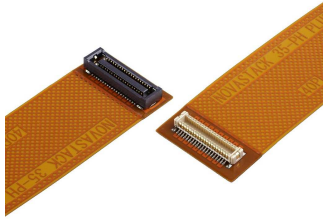


NOVASTACK® 35-PH 1.5 mm height connector with long effective contact wiping length, power contacts, 0.35 mm pitch, vertical mating



- ✓ Dedicated high-profile design that promotes high-retention using a distinct clicking feeling
- ✓ Robust design with hold down feature and prevents half-mating
- ✓ 0.35 mm pitch contributes to space saving on the board

Pin counts:

Range	Up to 80 (Signal) + 2 (Power)
Available	10, 30, 40, 50 / +2

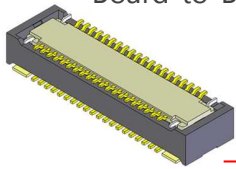
*Please inquire for pin counts not listed or outside of the pin count range.

Receptacle P/N		20843-0**E-21
Plug P/N		20842-0**E-21
Pitch (mm)		0.35
Board pitch (mm)		0.35
Mated size (mm)	Stack Height	1.5 +/- 0.06
	Width formula	2.65+ (0.35*?p/2)
	Depth	2.8
Current Rating	Signal Pin	0.3A / Pin
	Power Pin	3.0A / Pin x 2

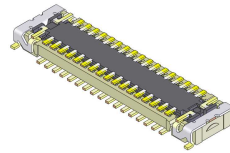
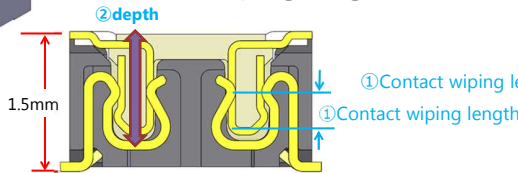
Dedicated high-profile design that promotes high-retention using a distinct clicking feeling

NOVASTACK 35-PH
0.35 mm Pitch, 1.5 mm Height Dedicated Board-to-Board connector

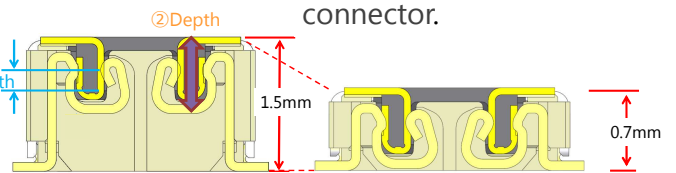
Ex : Typical H=1.5 mm 0.35 mm Board-to-Board connector



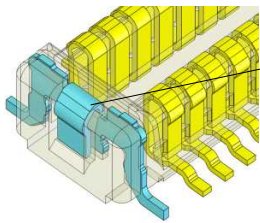
With deeper mating depth and contact wiping length.



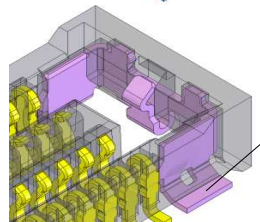
Stretched 1.5 mm height from 0.6 - 0.8 mm height connector.



Robust design with hold down feature and prevents half-mating

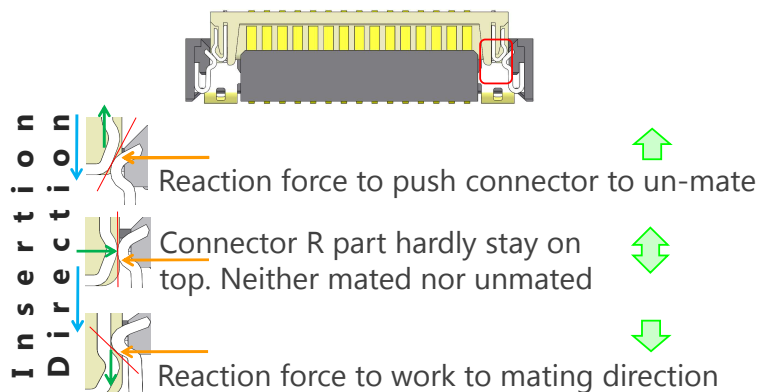


Plug metal reinforcement (Hold down)



Receptacle metal reinforcement (Hold down)

Metal hold down reaction when mating



0.35 mm pitch contributes to space saving on the board

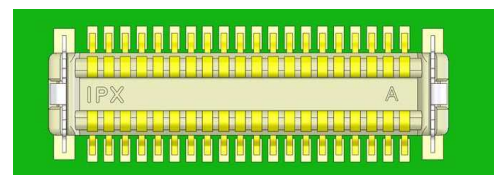
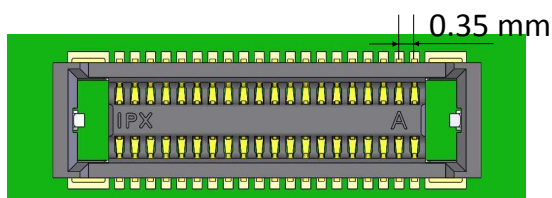
Receptacle

Plug

(Unit: mm²)

Pin counts	10	30	40	50
I-PEX	4.40	7.90	9.65	11.40
Competitor	4.60	8.60	10.60	12.60
Decreasing Rate	4.3%	8.1%	9.0%	10%

Pin counts	10	30	40	50
I-PEX	3.27	6.77	8.52	10.27
Competitor	3.52	7.52	9.52	11.52
Decreasing Rate	7.1%	10%	10.5%	10.9%

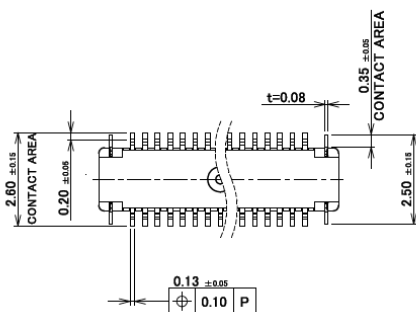
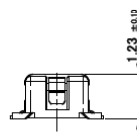
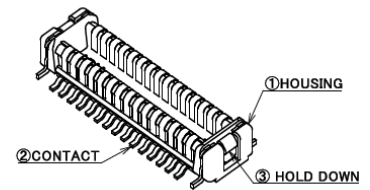
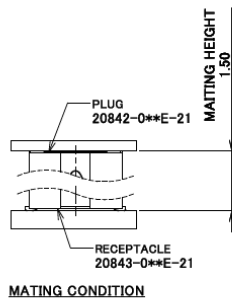
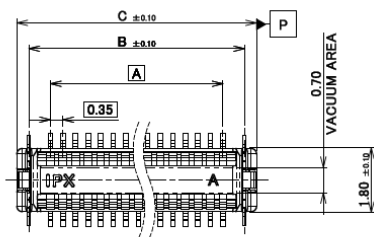


NOVASTACK® 35-PH

Component Parts Detail

Plug Assembly :

Recommended P/N		20842-0**E-21			
PART No.	Pos	A	B	C	
20842-010E-21	10	1.40	2.60	3.27	
20842-030E-21	30	4.90	6.10	6.77	
20842-040E-21	40	6.65	7.85	8.52	
20842-050E-21	50	8.40	9.60	10.27	

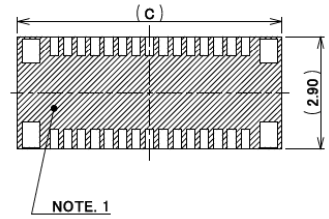
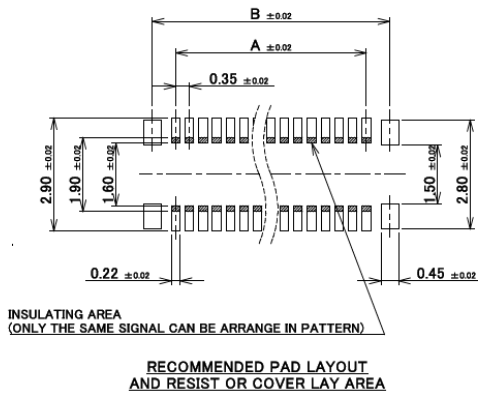
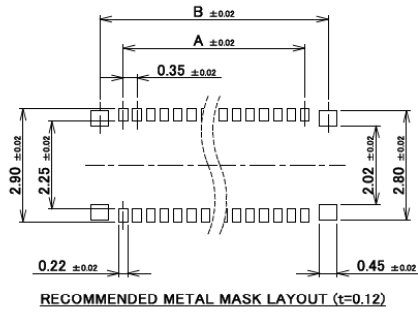


NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
3	HOLD DOWN	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
1	HOUSING	LCP	UL94V-0, BEIGE

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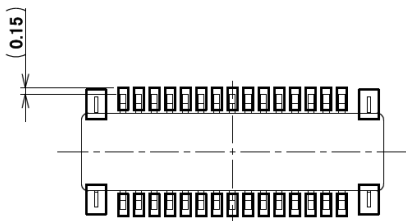
Plug Assembly :

PART No.	Pos	A	B	C
20842-010E-21	10	1.40	2.60	3.27
20842-030E-21	30	4.90	6.10	6.77
20842-040E-21	40	6.65	7.85	8.52
20842-050E-21	50	8.40	9.60	10.27

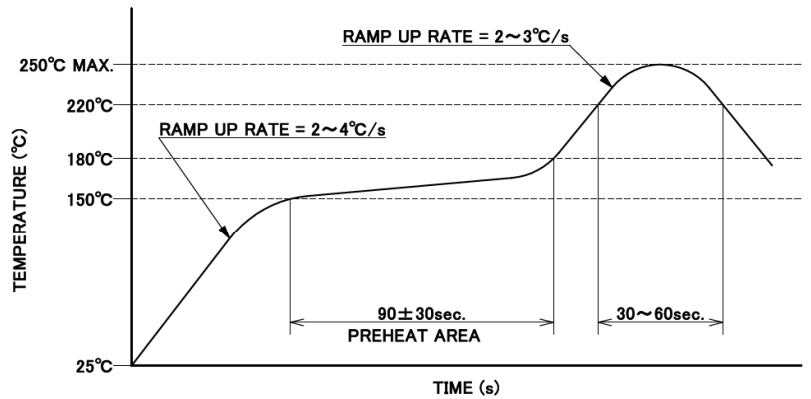


Rev.3

Plug Assembly :



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.3

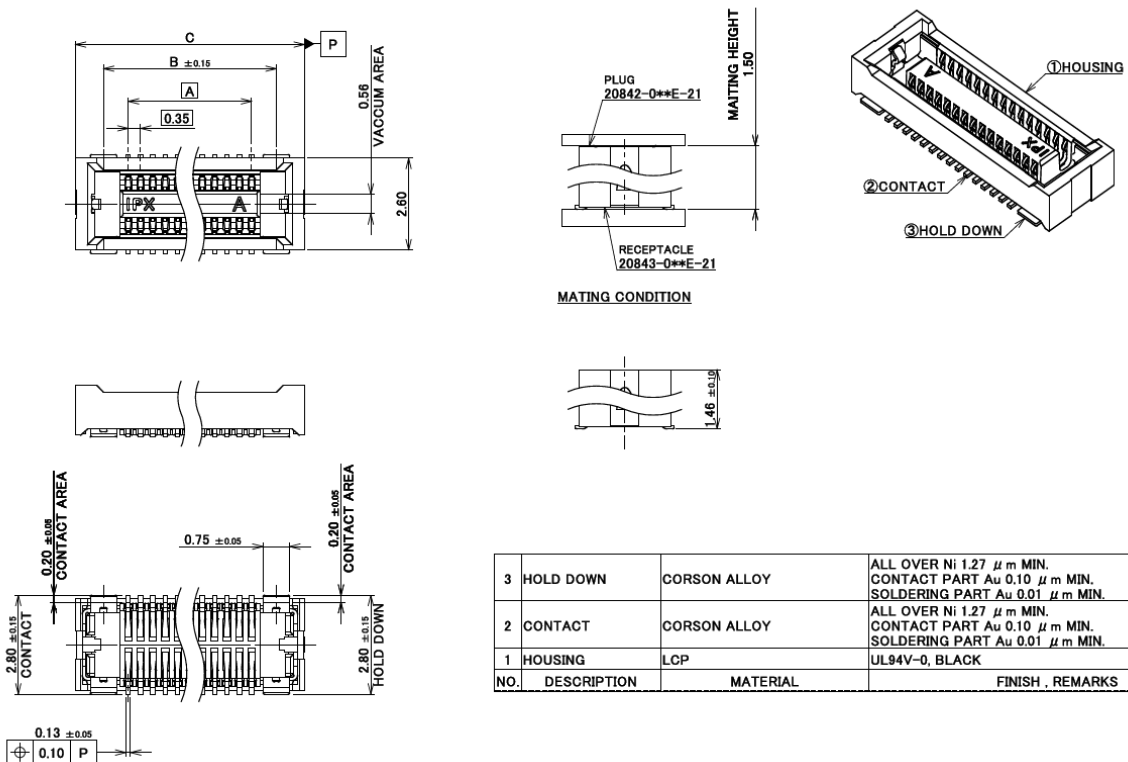
Plug Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (r.m.s)/DC (PER A CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A MAX. AC/DC (PER A CONTACT) 40P AND OVER : 12.0A MAX. AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	3.0A MAX. AC/DC (PER A CONTACT)/ 6.0A MAX. AC/DC (TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : \triangle 20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : \triangle 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	1.0N/PIN MAX.
UNMATING FORCE (AFTER TEST)	0.15N/PIN MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2463
TEST REPORT	TR-18014
PACKING STANDARD	PST-17082
INSTRUCTION MANUAL	HIM-18017
APPEARANCE CRITERIA No.	QLS-A***

Rev.3

Receptacle Assembly :

Recommended P/N		20843-0**E-21			
PART No.	Pos	A	B	C	
20843-010E-21	10	1.40	2.80	4.40	
20843-030E-21	30	4.90	6.30	7.90	
20843-040E-21	40	6.65	8.05	9.65	
20843-050E-21	50	8.40	9.80	11.40	

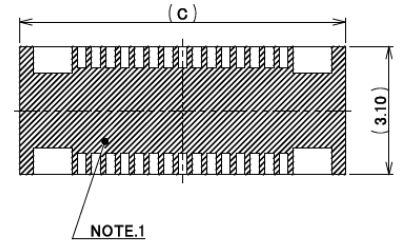
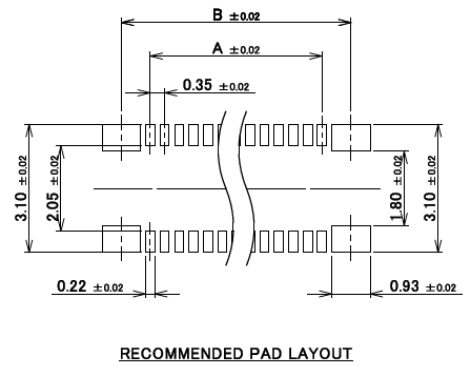
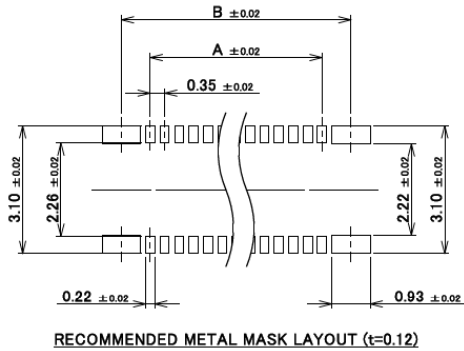


3	HOLD DOWN	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS

Rev.3

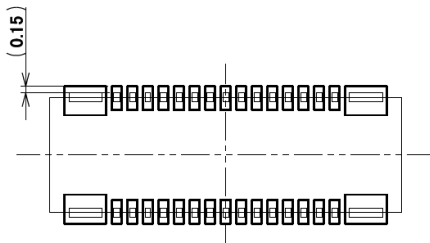
Receptacle Assembly :

PART No.	Pos	A	B	C
20843-010E-21	10	1.40	2.80	4.40
20843-030E-21	30	4.90	6.30	7.90
20843-040E-21	40	6.65	8.05	9.65
20843-050E-21	50	8.40	9.80	11.40

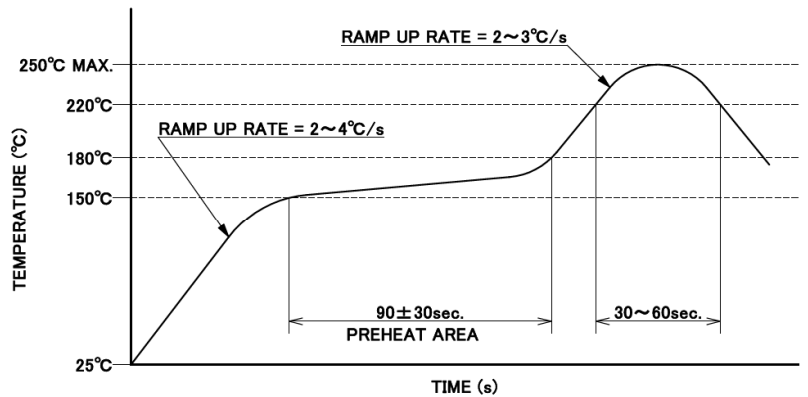


Rev.3

Receptacle Assembly :



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



Rev.3

Receptacle Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC (r.m.s)/DC (PER A CONTACT)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A MAX. AC/DC (PER A CONTACT) 40P AND OVER : 12.0A MAX. AC/DC (TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	3.0A MAX. AC/DC (PER A CONTACT)/ 6.0A MAX. AC/DC (TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : \leq 20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : \leq 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	1.0N/PIN MAX.
UNMATING FORCE (AFTER TEST)	0.15N/PIN MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2463
TEST REPORT	TR-18014
PACKING STANDARD	PST-17083
INSTRUCTION MANUAL	HIM-18017
APPEARANCE CRITERIA No.	QLS-A***

Rev.3



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