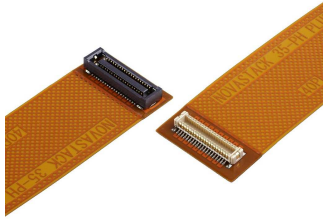


NOVASTACK® 35-PH 1.5 mm height connector with long effective contact wiping length, power contacts, 0.35 mm pitch, vertical mating



- ✓ 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

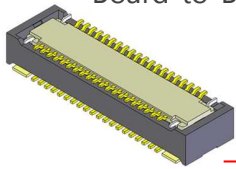
*Please inquire for pin counts not listed or outside of the pin count range.

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

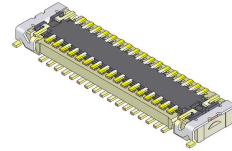
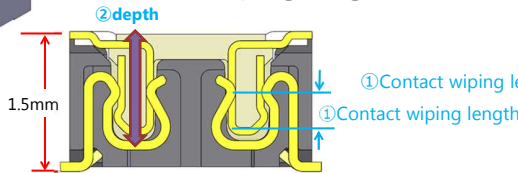
Dedicated high-profile design that promotes high-retention using a distinct clicking feeling

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

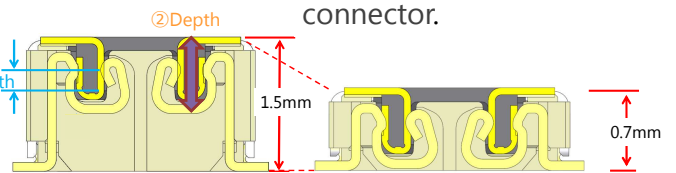
Ex : Typical H=1.5 mm 0.35 mm Board-to-Board connector



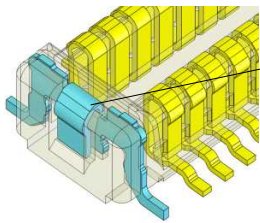
With deeper mating depth and contact wiping length.



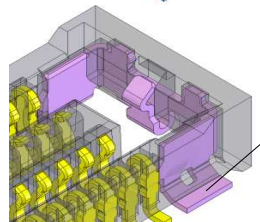
Stretched 1.5 mm height from 0.6 - 0.8 mm height connector.



Robust design with hold down feature and prevents half-mating

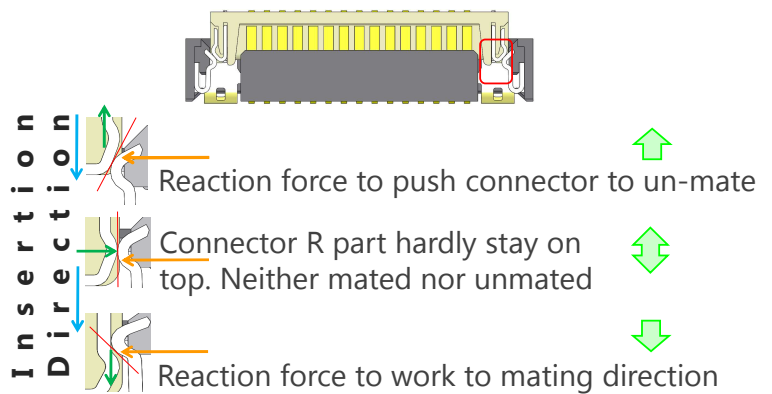


Plug metal reinforcement (Hold down)



Receptacle metal reinforcement (Hold down)

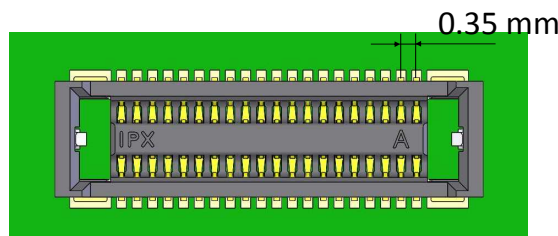
Metal hold down reaction when mating



0.35 mm pitch contributes to space saving on the board

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

(Unit: mm²)

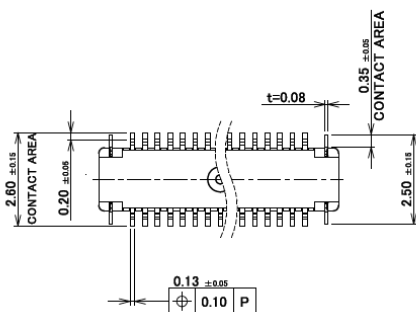
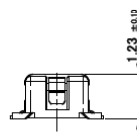
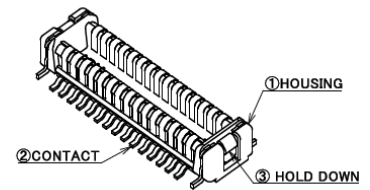
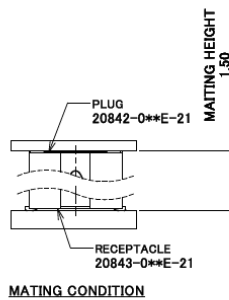
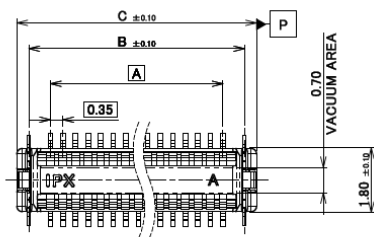


NOVASTACK® 35-PH

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	

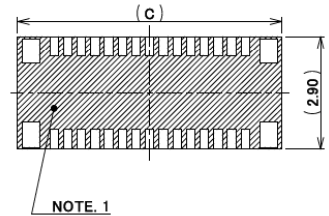
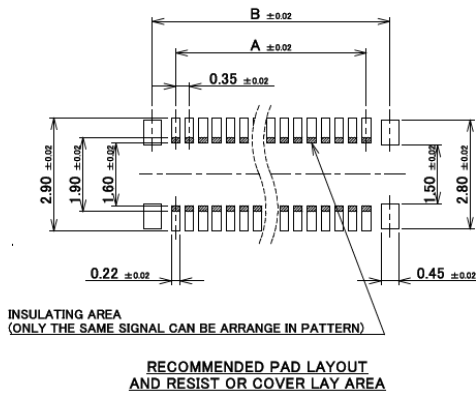
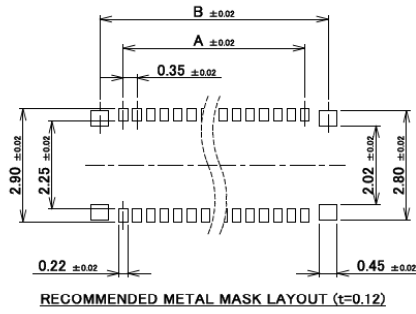


NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
3	HOLD DOWN	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
1	HOUSING	LCP	UL94V-0, BEIGE

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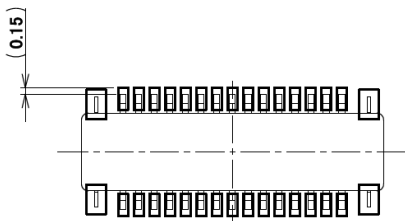
Plug Assembly :

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

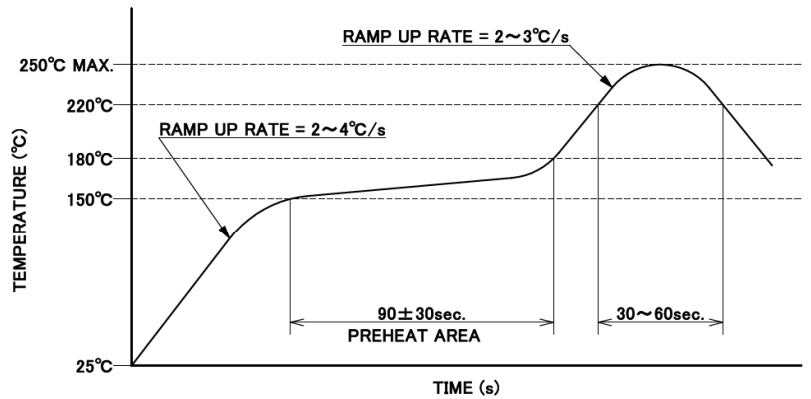


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Plug Assembly :



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.3

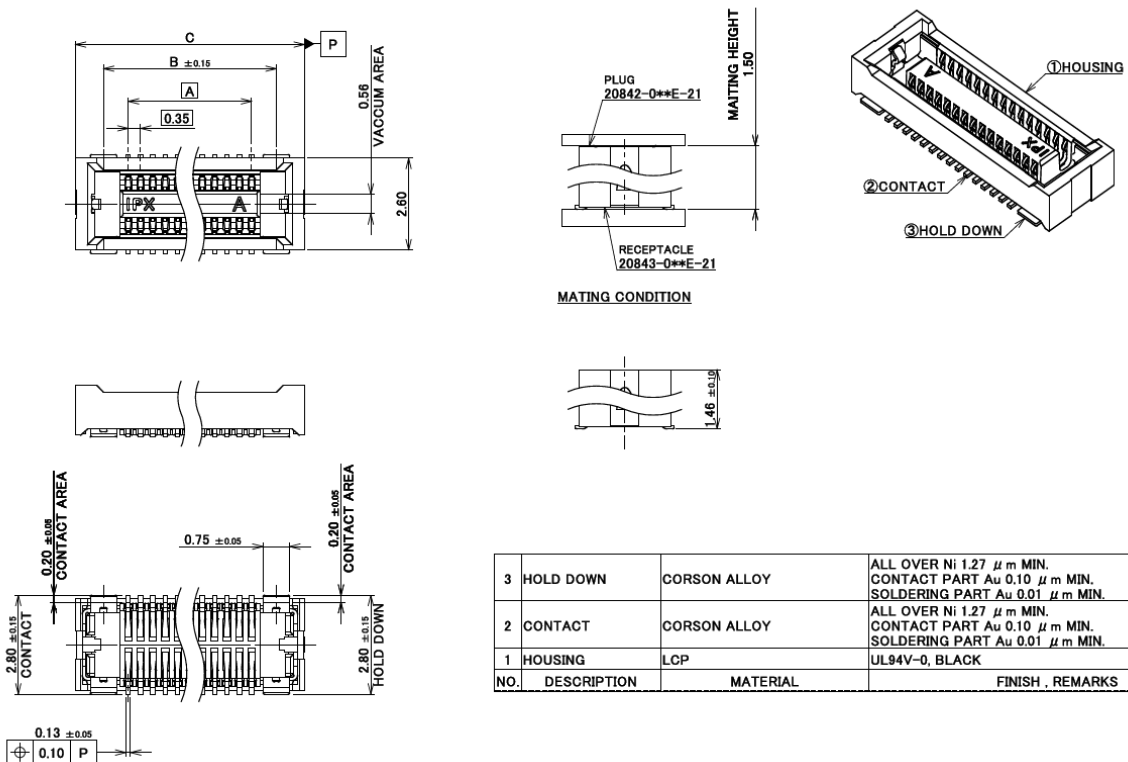
Plug Assembly :

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 : \triangleleft 20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : \triangleleft 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 :

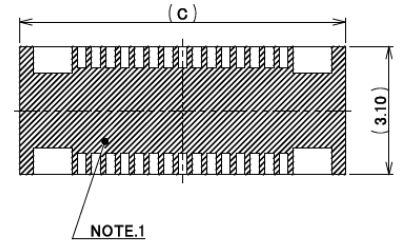
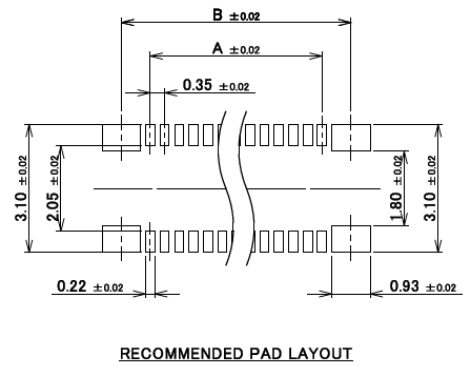
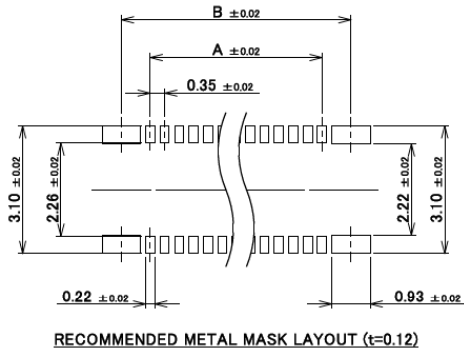
Recommended P/N		20843-0**E-21		
PART No.	Pos	A	B	C
20843-010E-21	10	1.40	2.80	4.40
20843-030E-21	30	4.90	6.30	7.90
20843-040E-21	40	6.65	8.05	9.65
20843-050E-21	50	8.40	9.80	11.40



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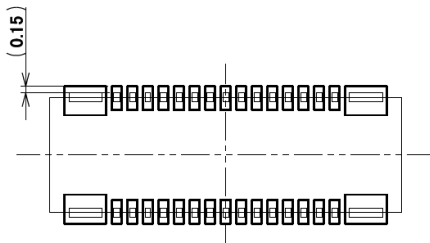
Receptacle Assembly :

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

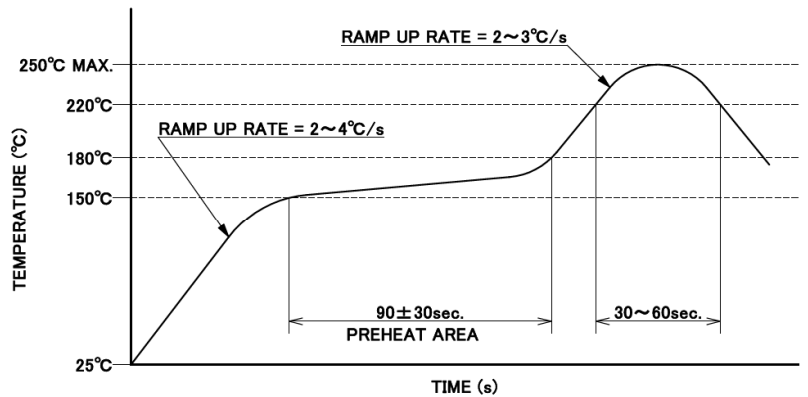


Rev.3

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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