NOVASTACK® 35-PH

1.5 mm height connector with long effective contact wipe length, power contacts,0.35 mm pitch, vertical mating

Product Specificat	ions:	
Board Pit	tch (mm)	0.35
Wiping Le	ngth (mm)	0.32
Marka d Ciar	Height	1.5 +/- 0.06
Mated Size (mm)	Width	Formula: 2.65 + (0.35*?p/2)
(11111)	Depth	2.8
Current Dating	Signal	0.3 A/pin
Current Rating	Power	3.0 A/pin x 2
Pin Counts	Range	10 - 50 (signal) + 2 (power)
Fill Counts	Available	10,30,40,50 /+ 2

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



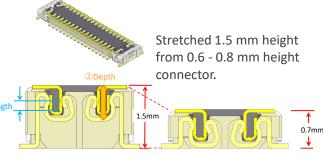
Dedicated high-profile design that promotes high-retention using a distinct clicking feeling

NOVASTACK 35-PH

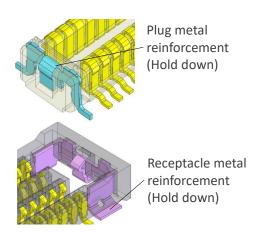
0.35 mm Pitch, 1.5 mm Height Dedicated Board-to-Board connector

With deeper mating depth and contact wiping length.

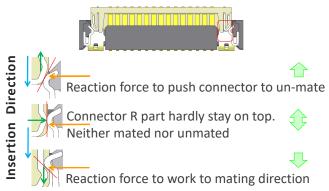
Ex: Typical H=1.5 mm 0.35 mm Board-to-Board connector



Robust design with hold down feature and prevents half-mating



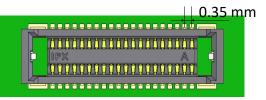
Metal hold down reaction when mating

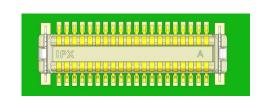


▶ 0.35 mm pitch contributes to space saving on the board

Receptacle				
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%

1 146				
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%



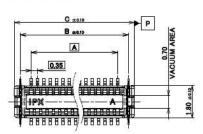


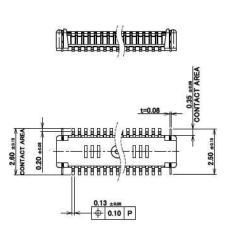
(Unit: mm²)

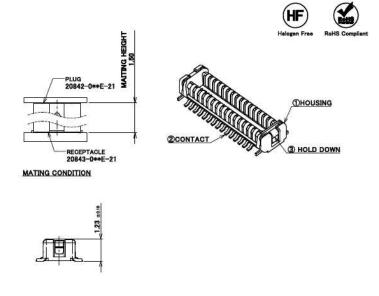
Component Parts Detail

Plug Assembly

Recommended	20	842-	0**E	-21	
PART No.	Pos	A	В	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	
20042 0505 01			0.00	10.07	





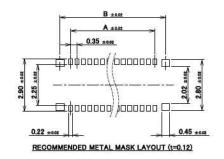


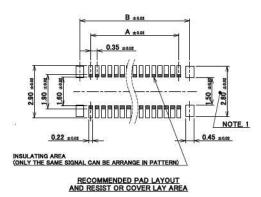
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS	1
1	HOUSING	LCP	UL94V-0, BEIGE	
2	CONTACT	CORSON ALLOY	ALL OVER NI 1.27 μm MIN. CONTACT PART Au 0.10 μm MIN. SOLDERING PART Au 0.01 μm MIN.	
3	HOLD DOWN	CORSON ALLOY	ALL OVER NI 1.27 μ m MIN. CONTACT PART AU 0.10 μ m MIN. SOLDERING PART AU 0.01 μ m MIN.	

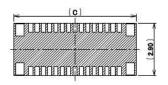


Plug Assembly

PART No.	Pos	A	В	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	R 40	9.60	10 27

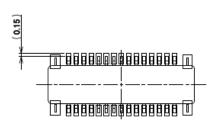




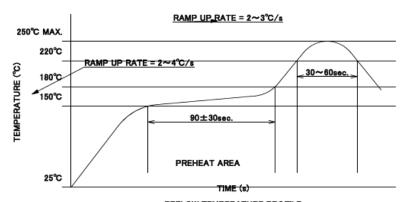


NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

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CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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



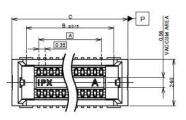
Plug Assembly

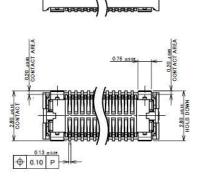
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20843-0**E-21
RATING VOLTAGE	50V AC (r.m.s)/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A MAX. AC/DC (PER CONTACT PIN) 40P AND OVER : 12.0A MAX. AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	3.0A MAX. AC/DC (PER CONTACT PIN)/ 6.0A 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: 20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL: 80mohm MAX. / AFTER TEST: ∠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.4

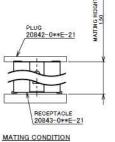
Receptacle Assembly

Recommended	P/N	20	843-	0**E-2	21
PART No.	Pos	Α	В	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	
20042-0E0E-21	EO	9.40	0.00	11.40	

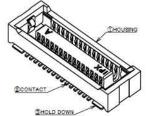












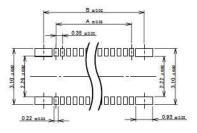
3	HOLD DOWN	CORSON ALLOY	ALL OVER Ni 1.27 μm MIN. CONTACT PART Au 0.10 μm MIN. SOLDERING PART Au 0.01 μm MIN.	
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.	
1	HOUSING	LCP	UL94V-0, BLACK	
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS	

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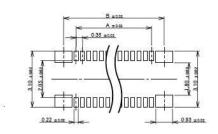


Receptacle Assembly

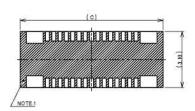
	PART No.	Pos	A	В	C
ĵ	20843-010E-21	10	1.40	2.80	4.40
8	20843-030E-21	30	4.90	6.30	7,90
3	20843-040E-21	40	6.65	8.05	9.65
_	20942-0505-21	50	9.40	0.90	11.40



RECOMMENDED METAL MASK LAYOUT (t=0.12)



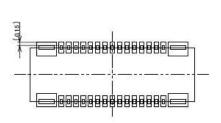
RECOMMENDED PAD LAYOUT



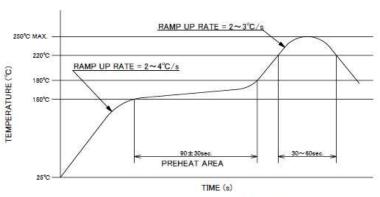
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NOTES.

1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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



Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20842-0**E-21
RATING VOLTAGE	50V AC (r.m.s)/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A MAX. AC/DC (PER CONTACT PIN) 40P AND OVER: 12.0A AC/DC MAX.(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	3.0A MAX. AC/DC (PER CONTACT PIN)/ 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 : ∠20mohm MAX
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : △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)	ALL PIN COUNT: 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***

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