

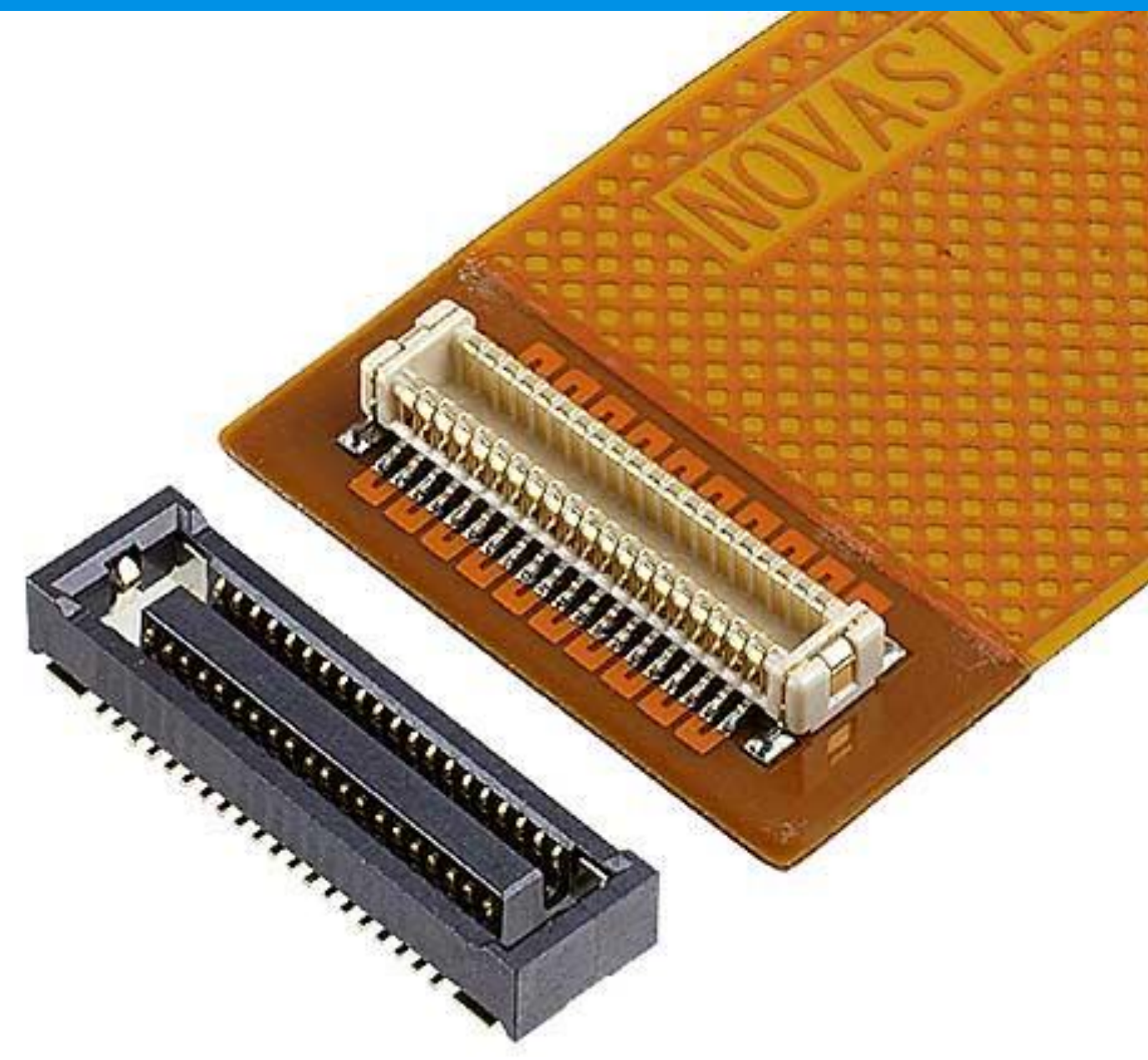
NOVASTACK® 35-PH

결합 높이 1.5 mm, 단자의 유효 접촉 구간이 긴 디자인, 전원 단자 포함, 0.35 mm Pitch, 수직 결합

Product Specifications:

Board Pitch (mm)		0.35
Wiping Length (mm)		0.32
Mated Size (mm)	Height	1.5 +/- 0.06
	Width	Formula: $2.65 + (0.35 * ?p/2)$
	Depth	2.8
Current Rating	Signal	0.3 A/pin
	Power	3.0 A/pin x 2
Pin Counts	Range	10 - 50 (signal) + 2 (power)
	Available	10,30,40,50 /+ 2

*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.

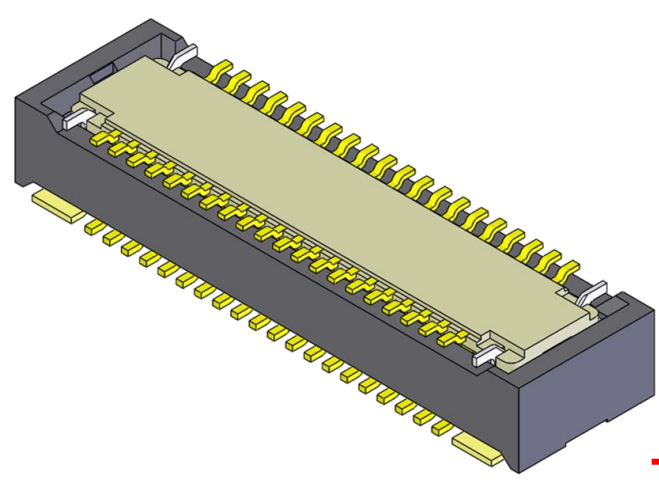


▶ 결합 높이 1.5 mm 전용 설계에 의한 높은 결합 유지력과 명료한 체결감을 실현

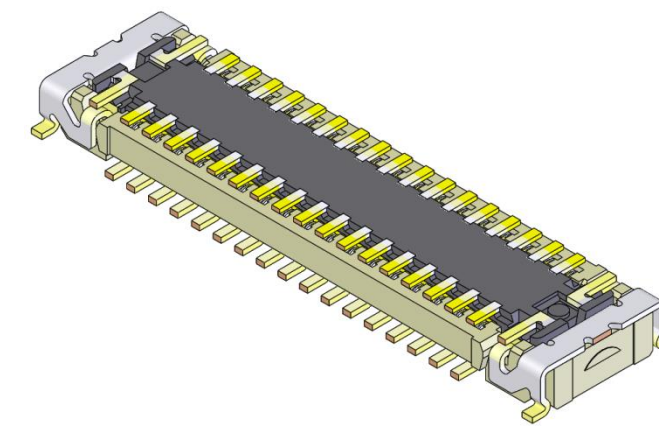
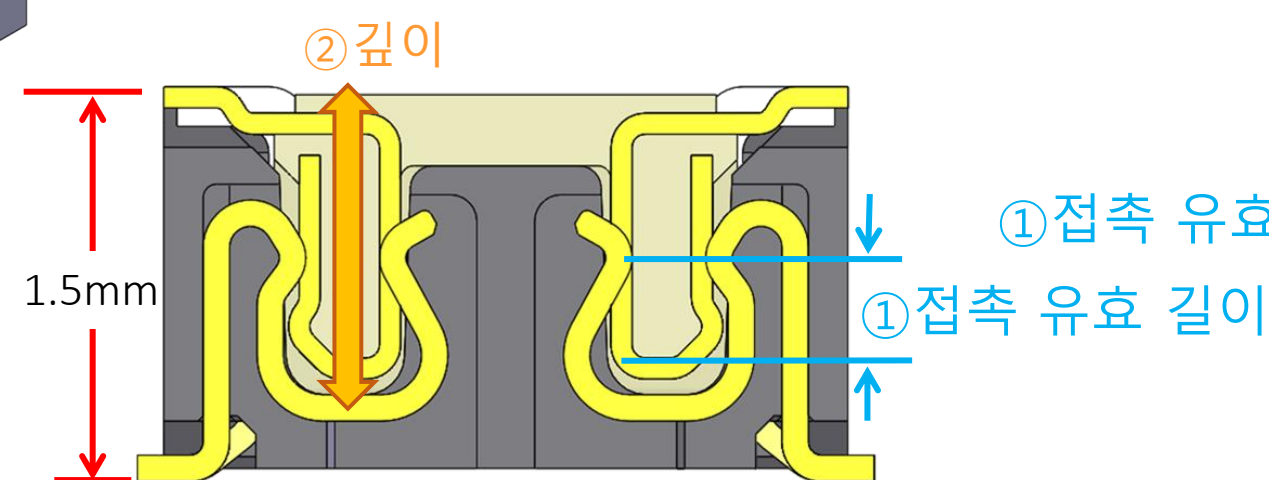
NOVASTACK 35-PH

0.35 mm 피치, 1.5 mm 높이 전용
보드 간 커넥터

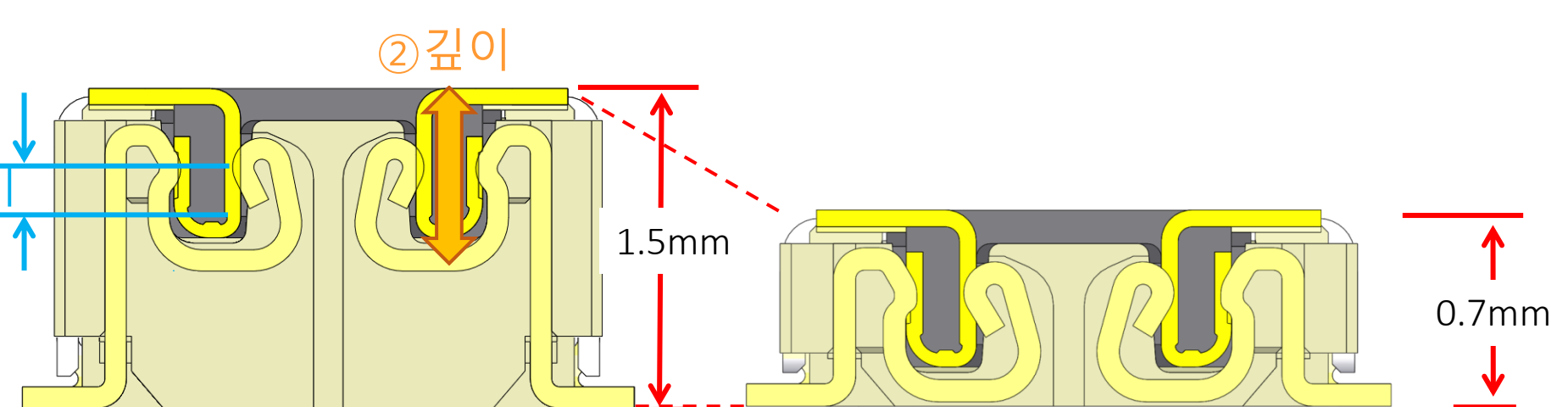
예: 일반적인 H= 1.5 mm 0.35 mm 보드 간 커넥터



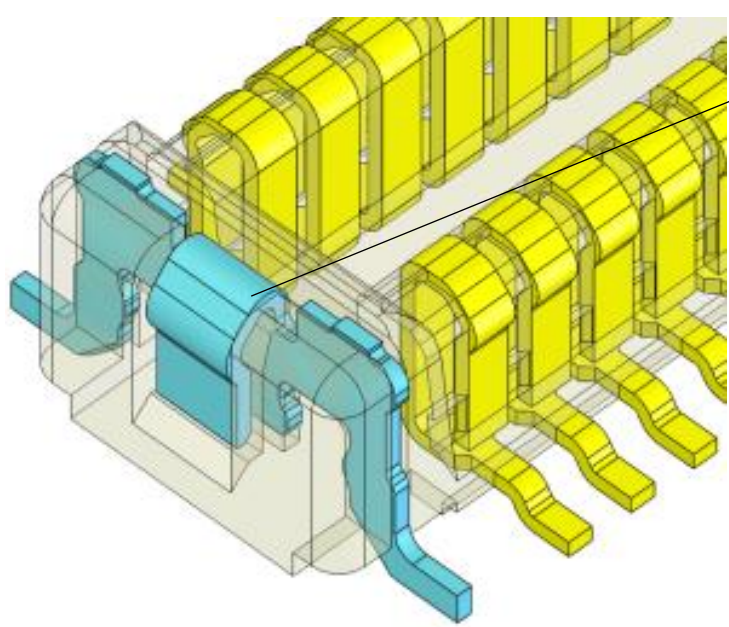
깊어진 체결 깊이와
접촉 유효 길이



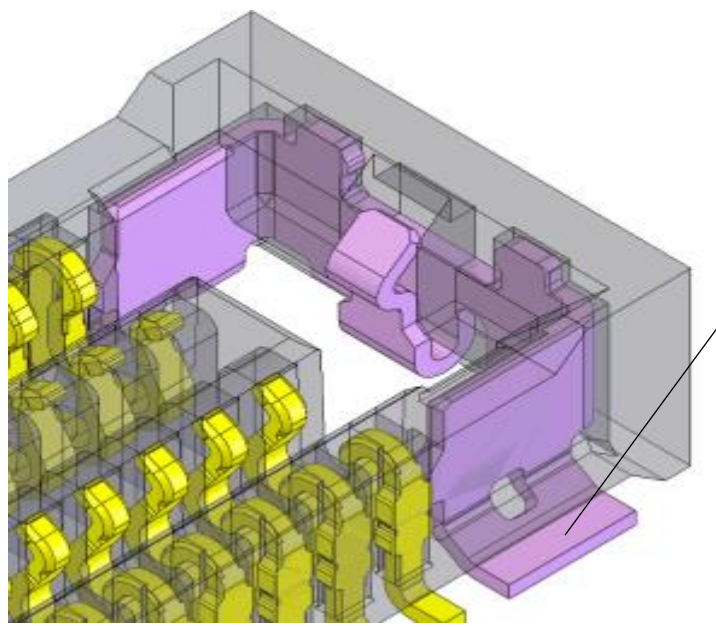
0.6 - 0.8 mm 높이에서 1.5 mm 높이로 늘린 커넥터



▶ 금속 보강판에 의한 강도 상승과 불완전 결합을 방지

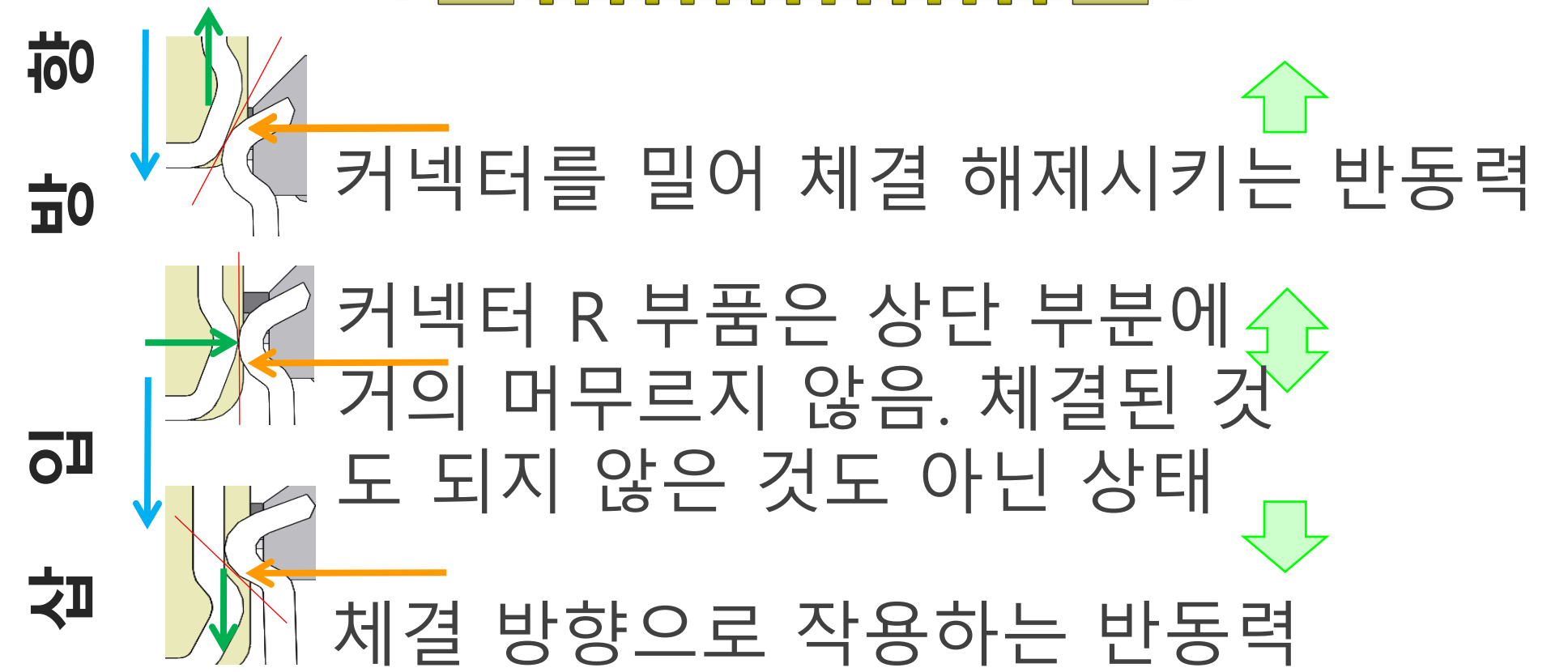
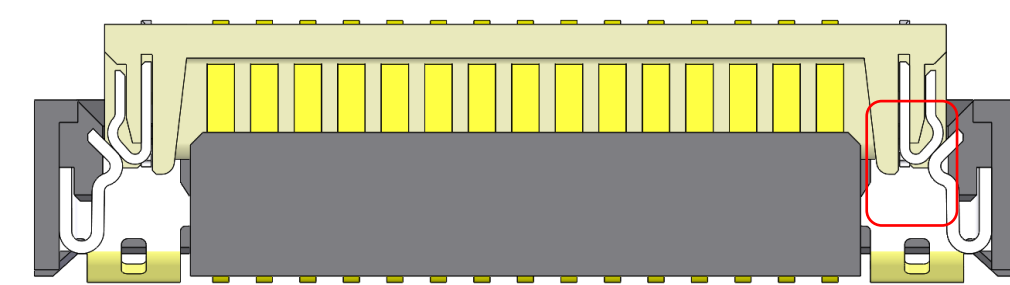


플러그 메탈 보강재(고정)



리셉터클 메탈 보강재(고정)

체결 시 메탈 고정 반동



▶ 0.35 mm Pitch로 기판의 공간 절약에 기여

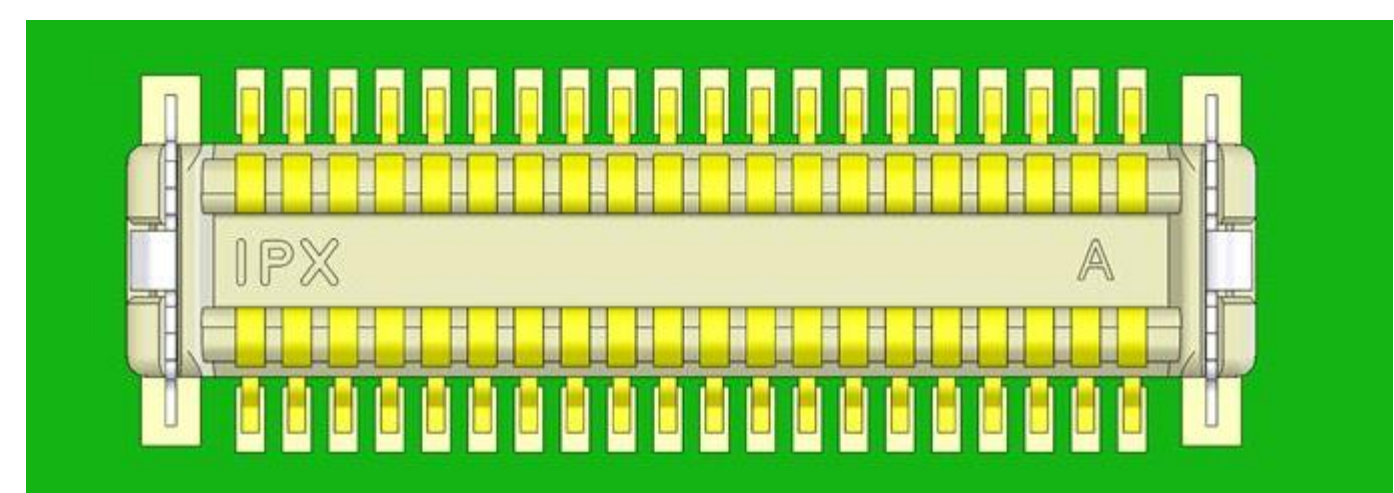
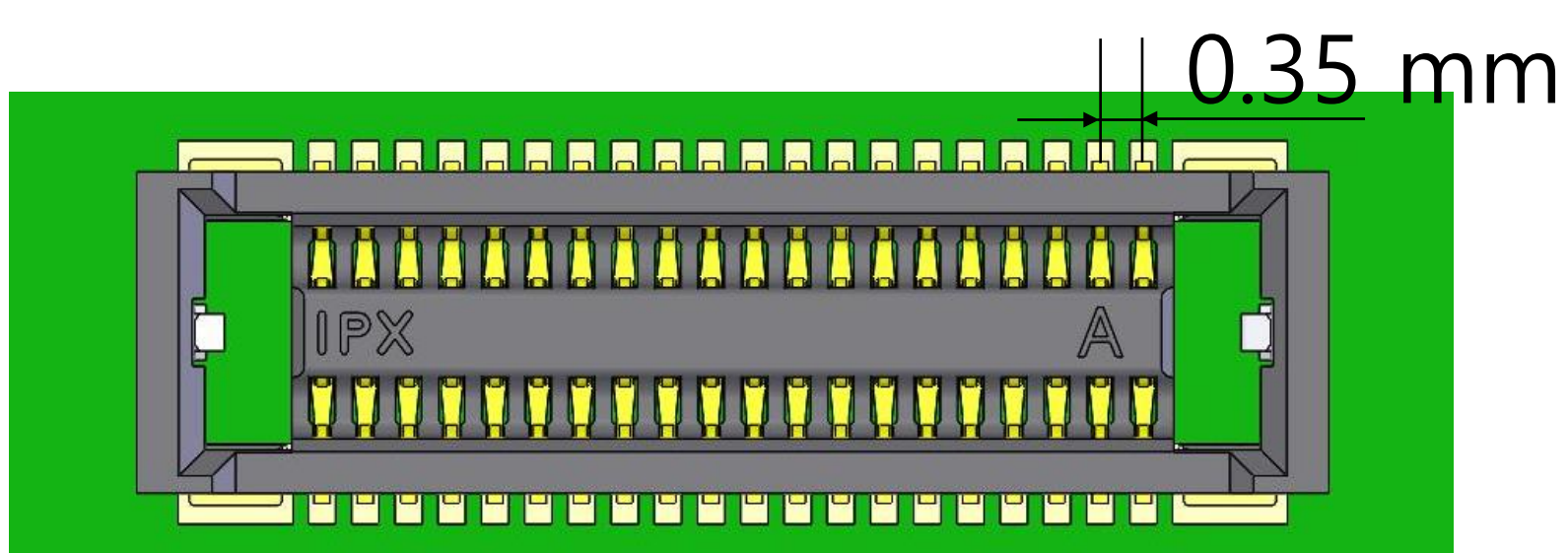
Receptacle

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

Plug

(Unit: mm²)

PIN	10	30	40	50
I-PEX	3.27	6.77	8.52	10.27
경쟁사 제품	3.52	7.52	9.52	11.52
Decreasing Rate	7.1%	10%	10.5%	10.9%



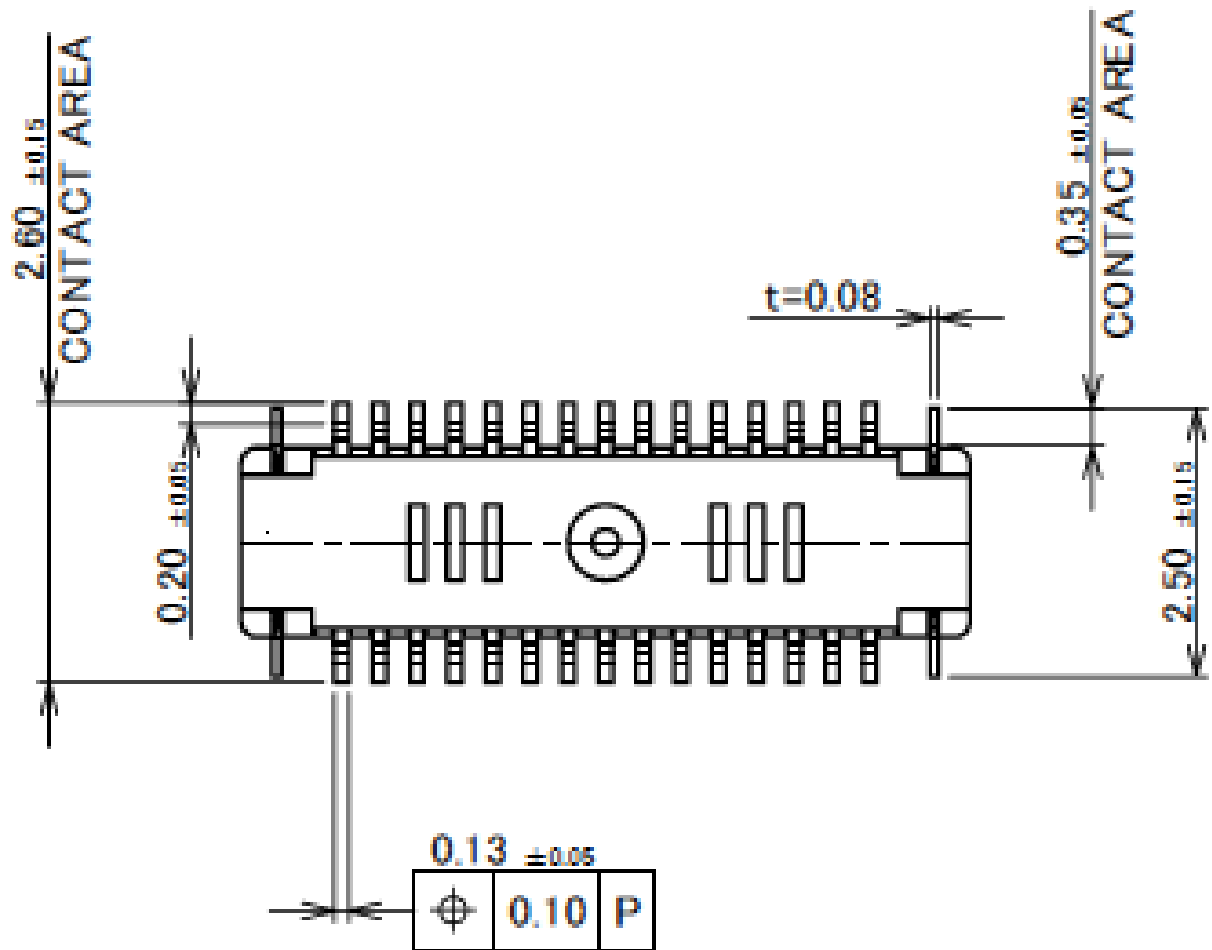
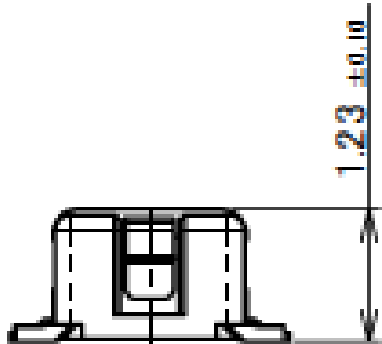
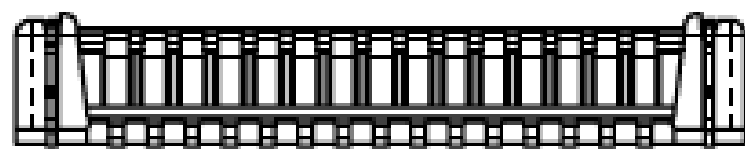
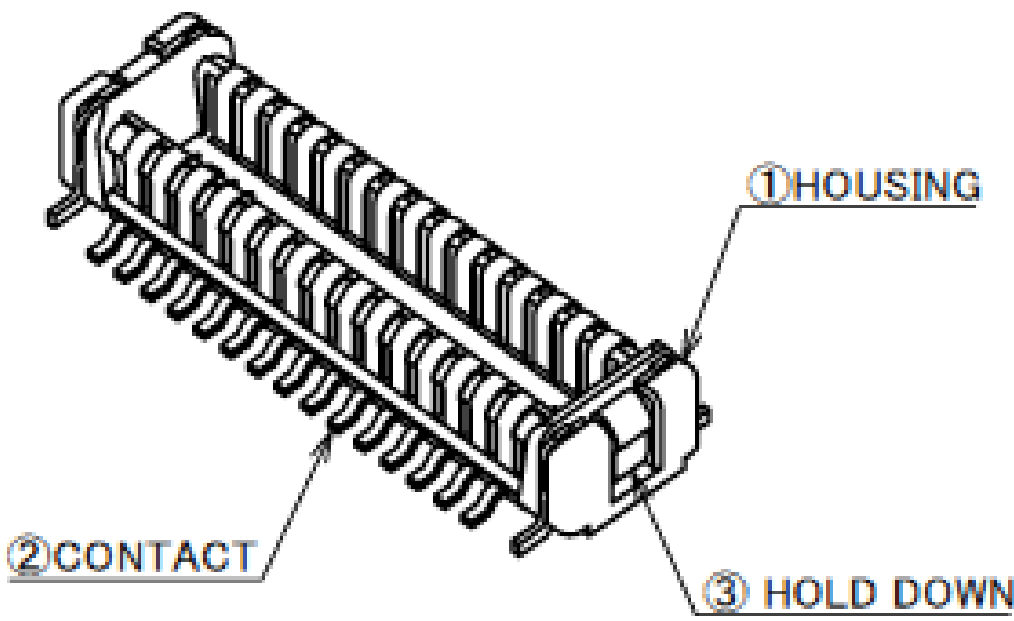
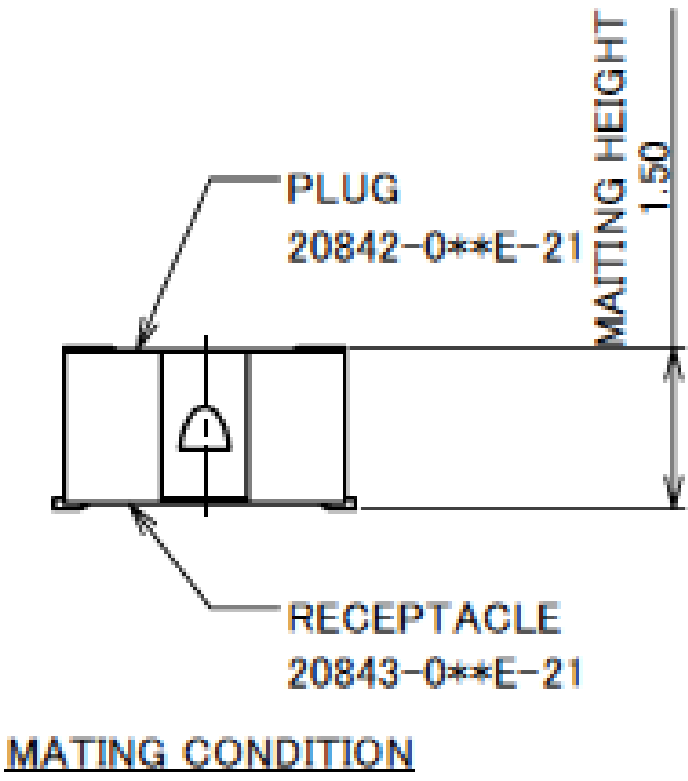
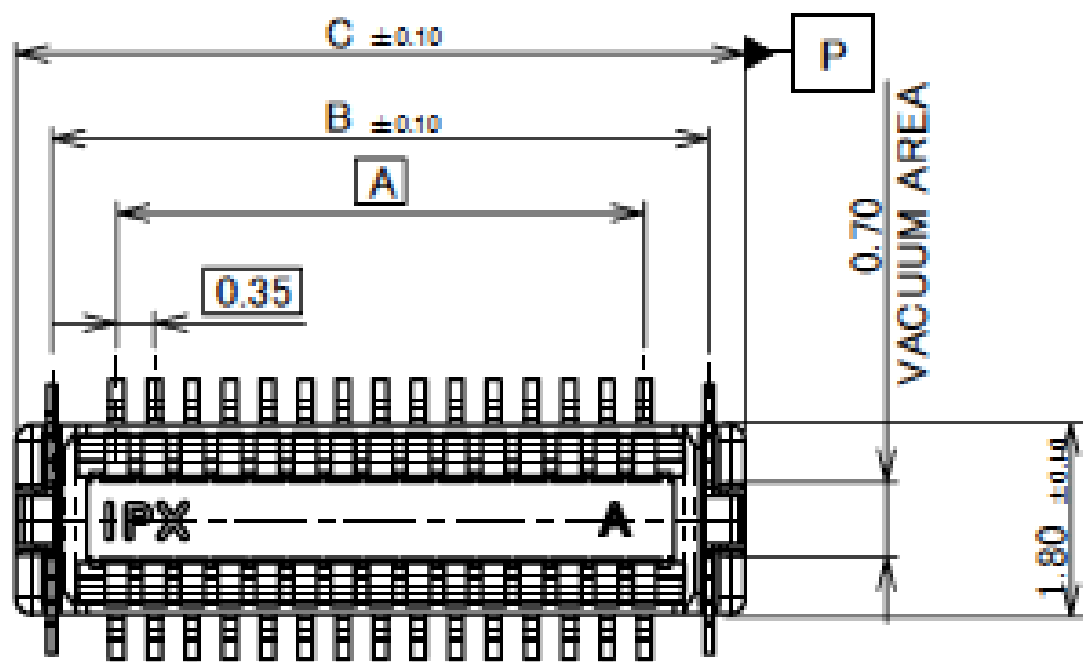
Component Parts Detail

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



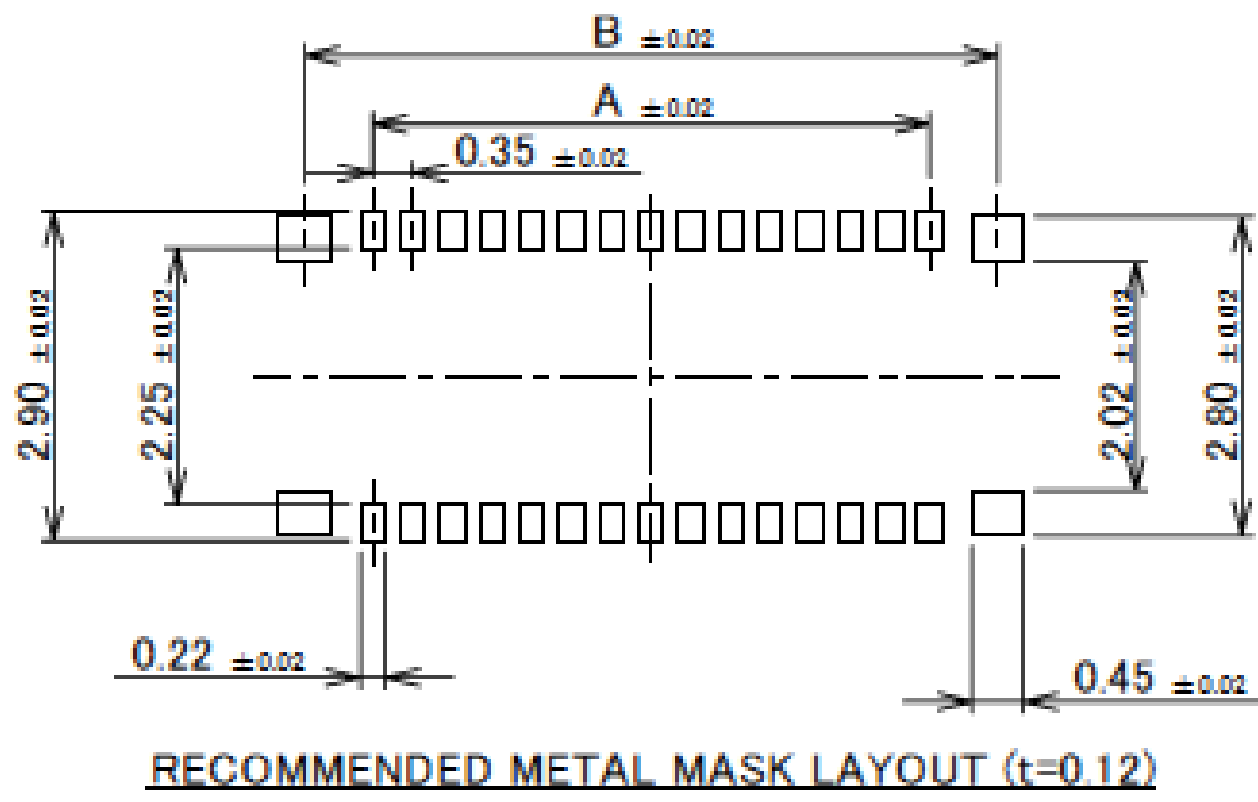
Halogen Free RoHS Compliant



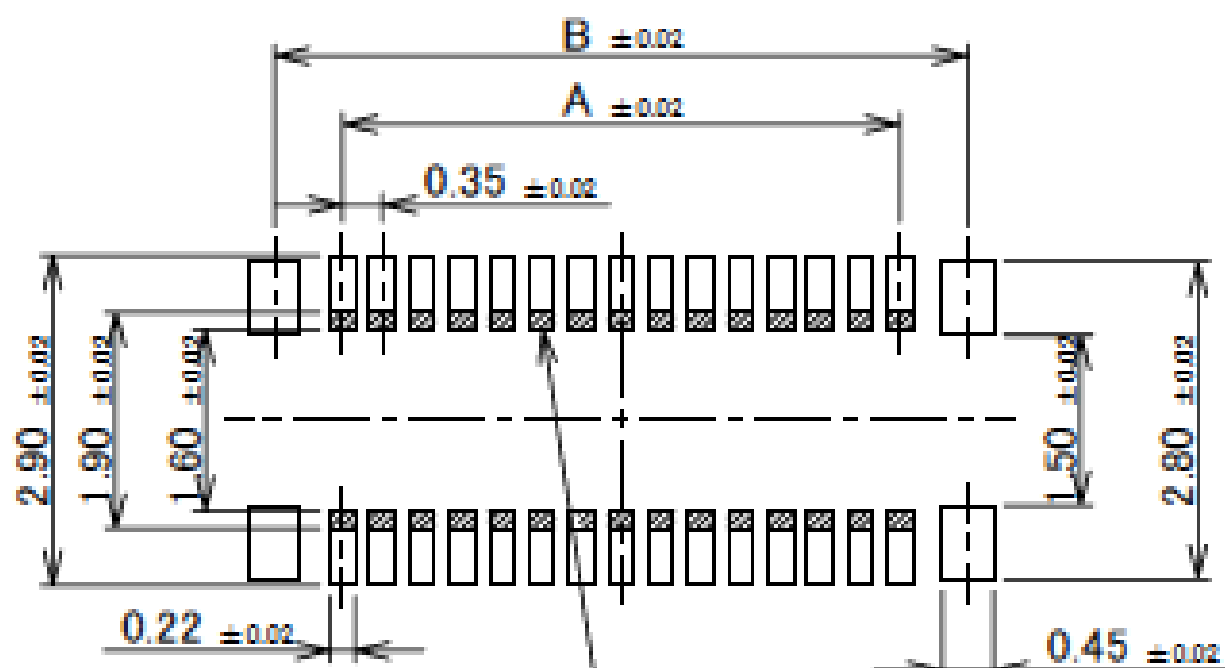
3	HOLD DOWN	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
2	CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.01 μ m MIN.
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Plug Assembly

PART No.	Pos	A	B	D
20842-010E-21	10	1.40	2.60	4.60
20842-030E-21	30	4.90	6.10	8.10
20842-040E-21	40	6.65	7.85	9.85
20842-050E-21	50	8.40	9.60	11.60

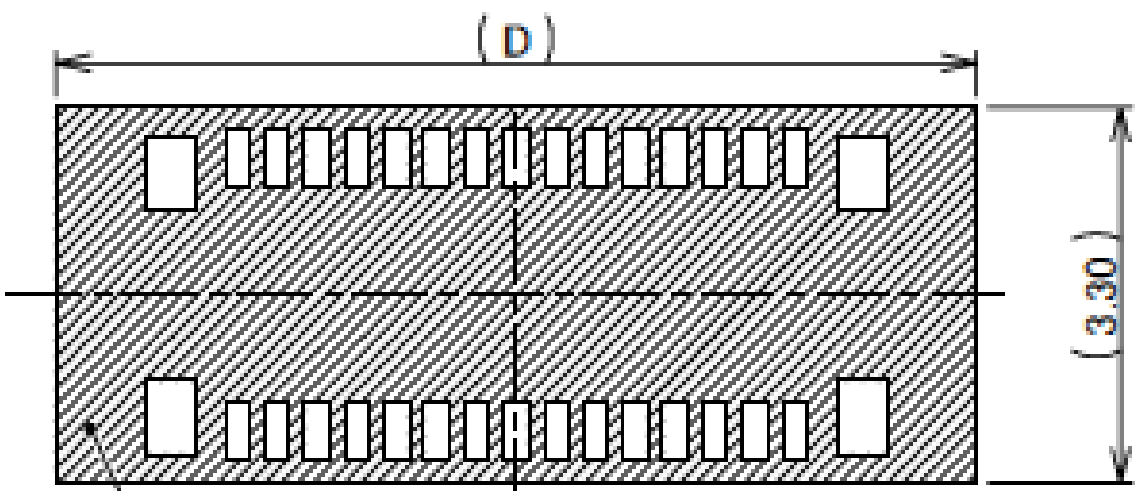


RECOMMENDED METAL MASK LAYOUT (t=0.12)

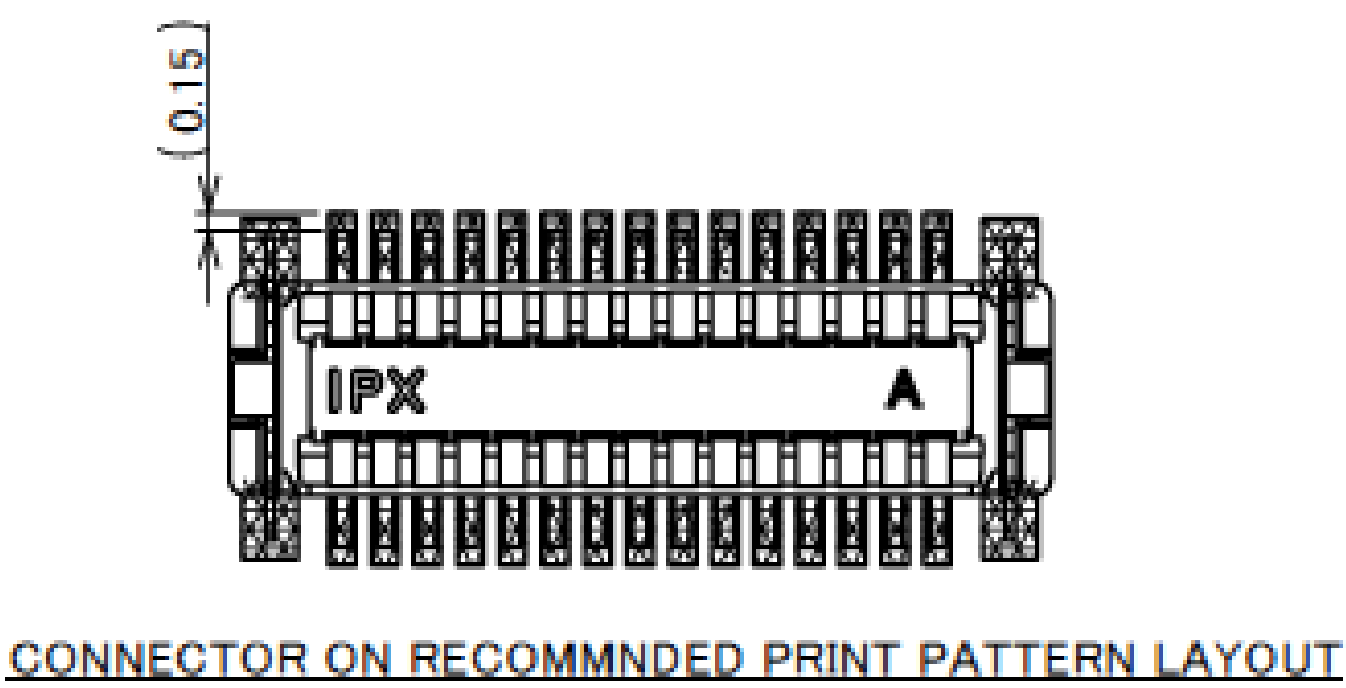


INSULATING AREA
(ONLY THE SAME SIGNAL CAN BE ARRANGE IN PATTERN)

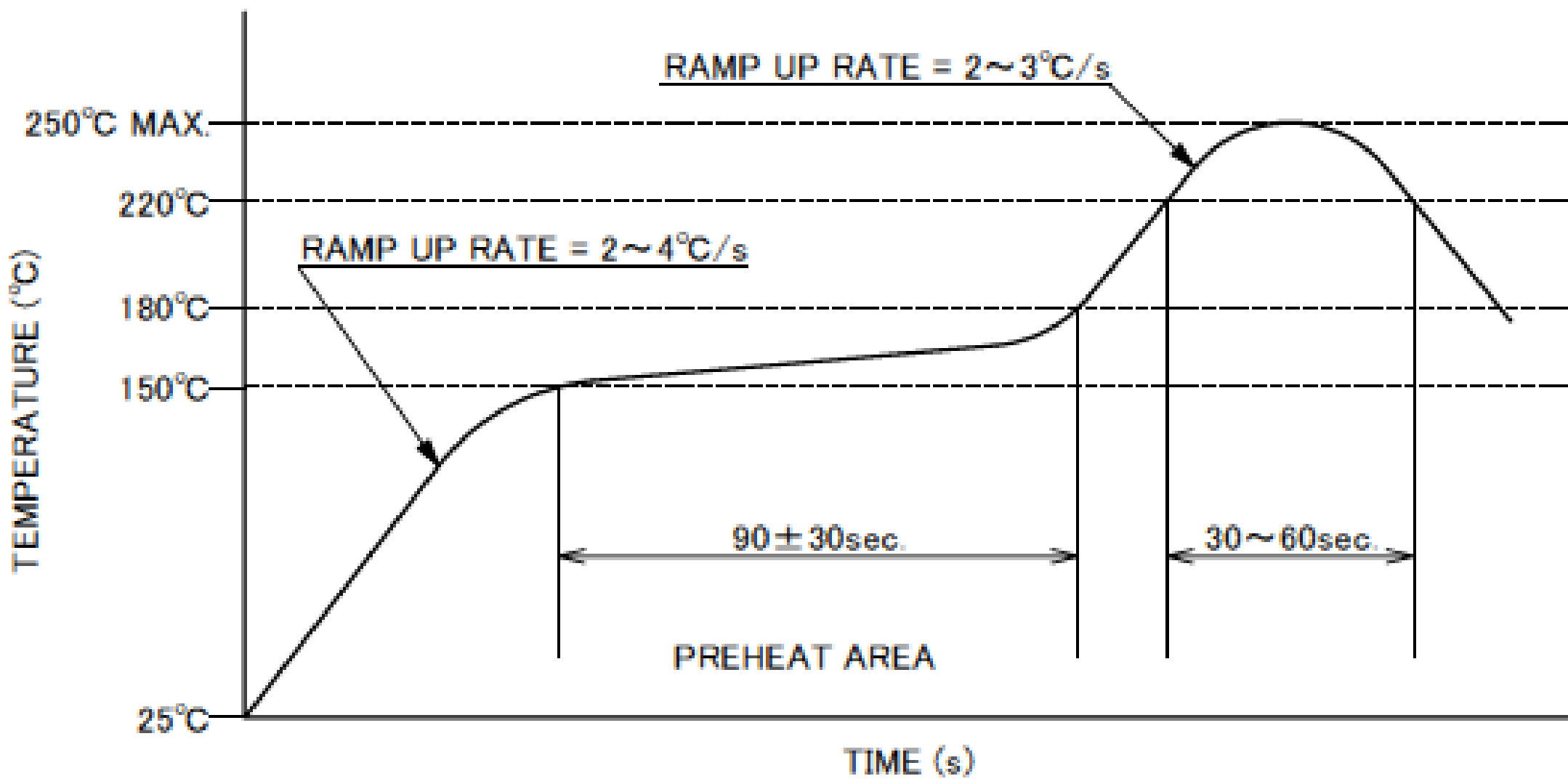
RECOMMENDED PAD LAYOUT
AND RESIST OR COVER LAY AREA



DO NOT MOUNT ANY OHTER COMPONENTS IN THIS AREA



CONNECTOR ON RECOMMENDED PRINT PATTERN LAYOUT



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

Rev.6

Rev.6

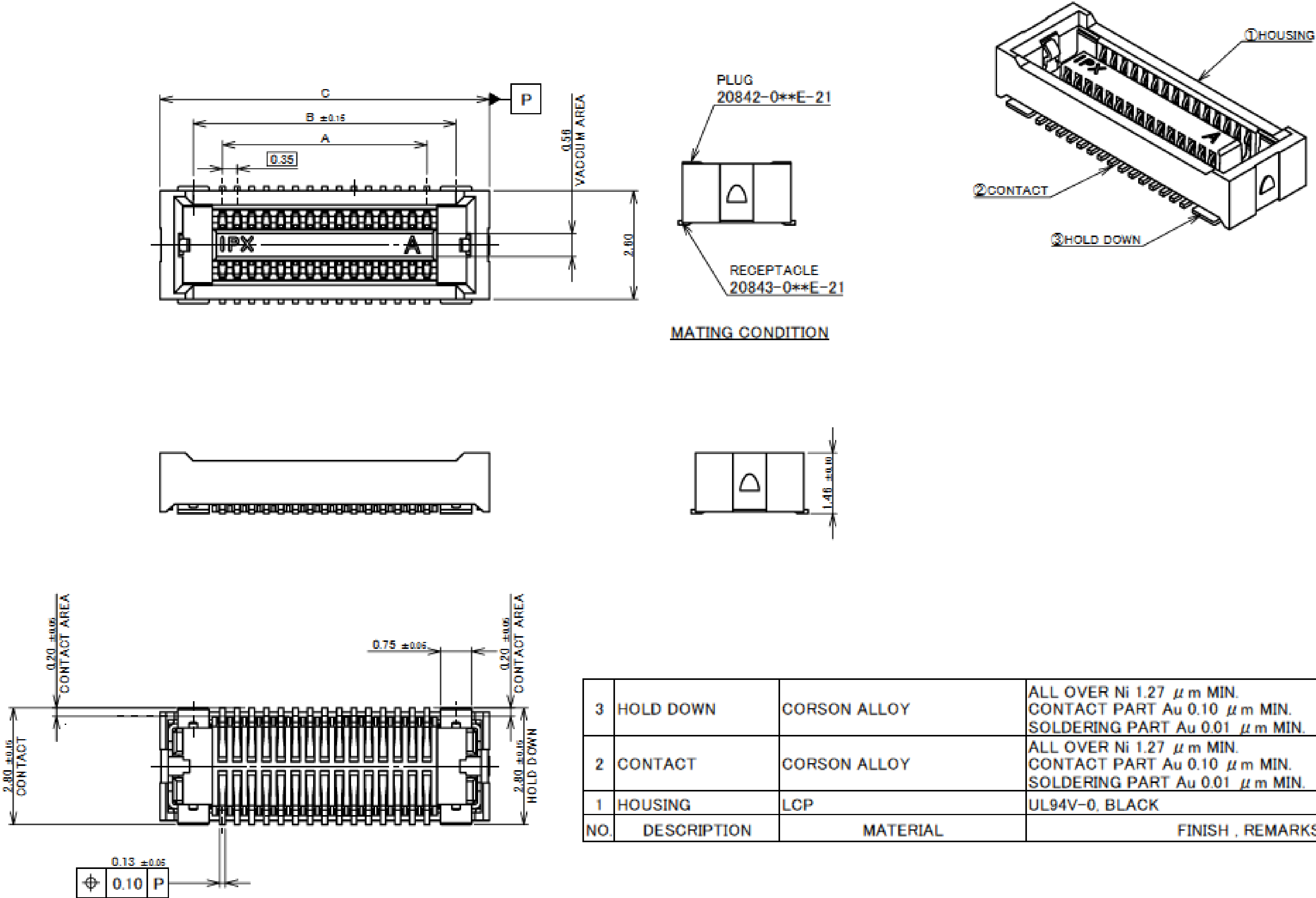
Plug Assembly

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 : $\triangle$ 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.6

Receptacle Assembly

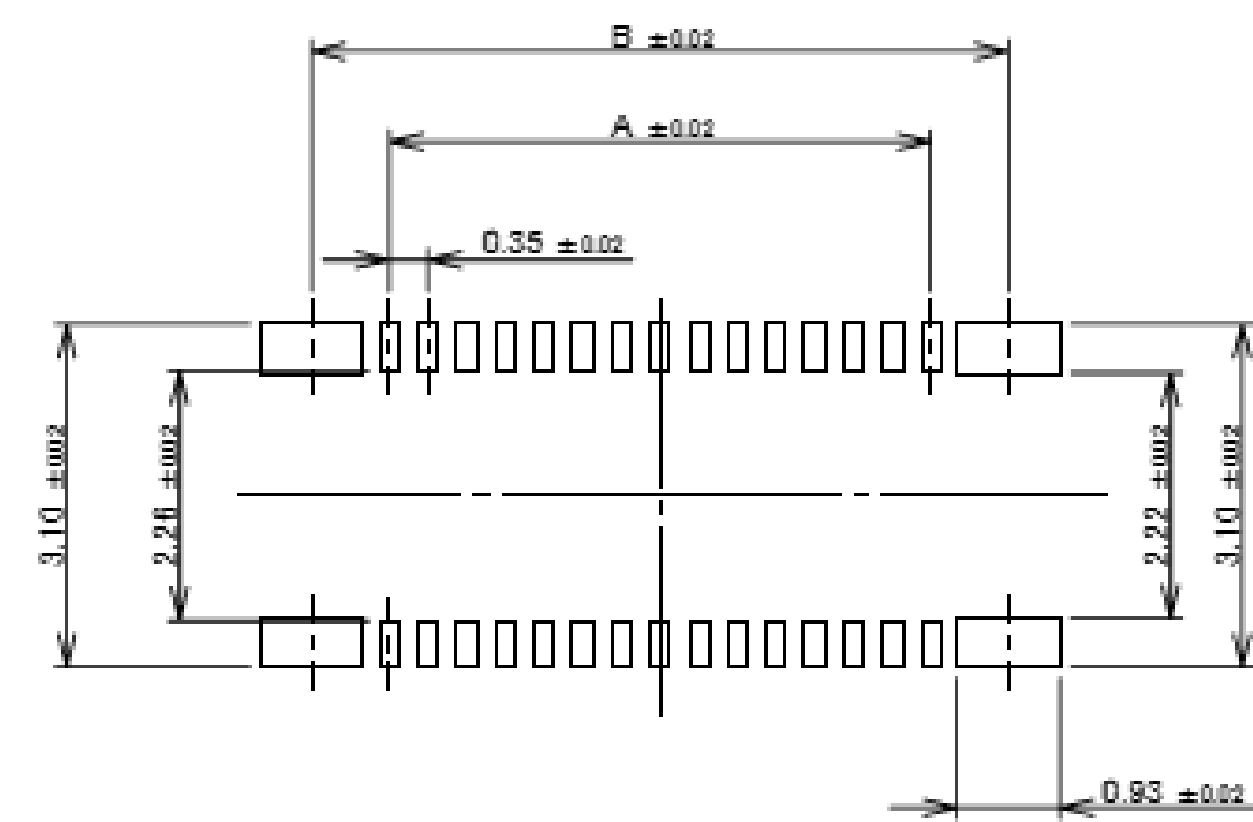
Recommended P/N		20843-0**E-21			
PART No.	Pos	A	B	C	
20843-010E-21	10	1.40	2.80	4.40	
20843-030E-21	30	4.90	6.30	7.90	
20843-040E-21	40	6.65	8.05	9.65	
20843-050E-21	50	8.40	9.80	11.40	



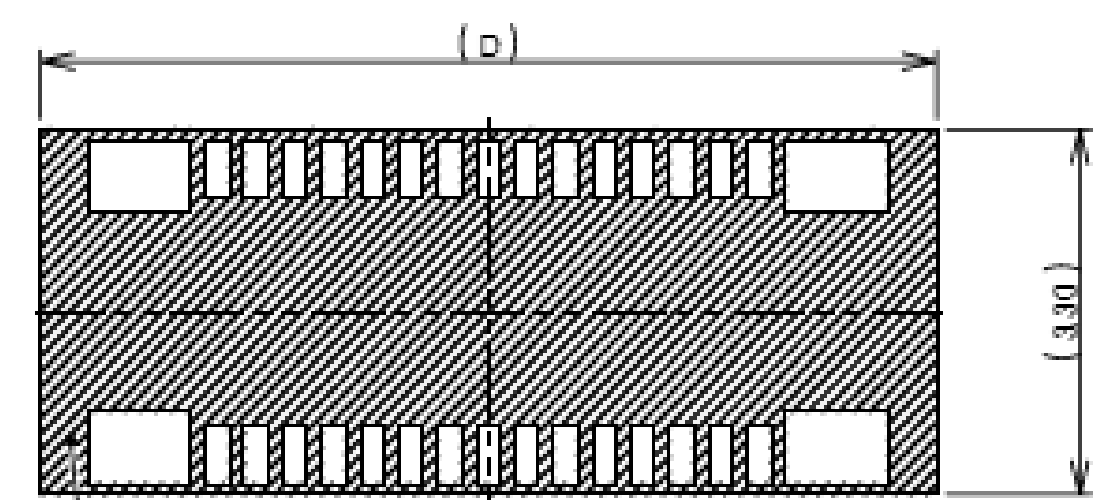
Rev.5

Receptacle Assembly

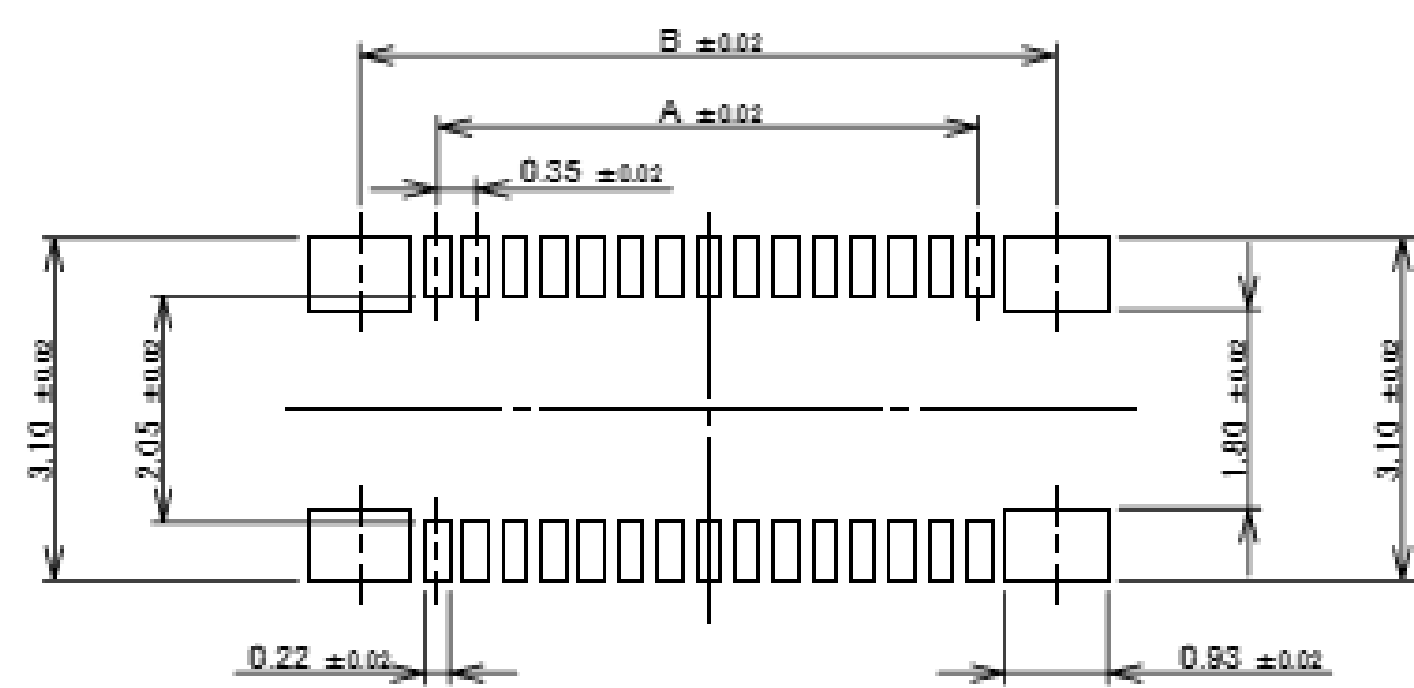
PART No.	Pos	A	B	D
20843-010E-21	10	1.40	2.80	4.60
20843-030E-21	30	4.90	6.30	8.10
20843-040E-21	40	6.65	8.05	9.85
20843-050E-21	50	8.40	9.80	11.60



RECOMMENDED METAL MASK LAYOUT (t=0.12)

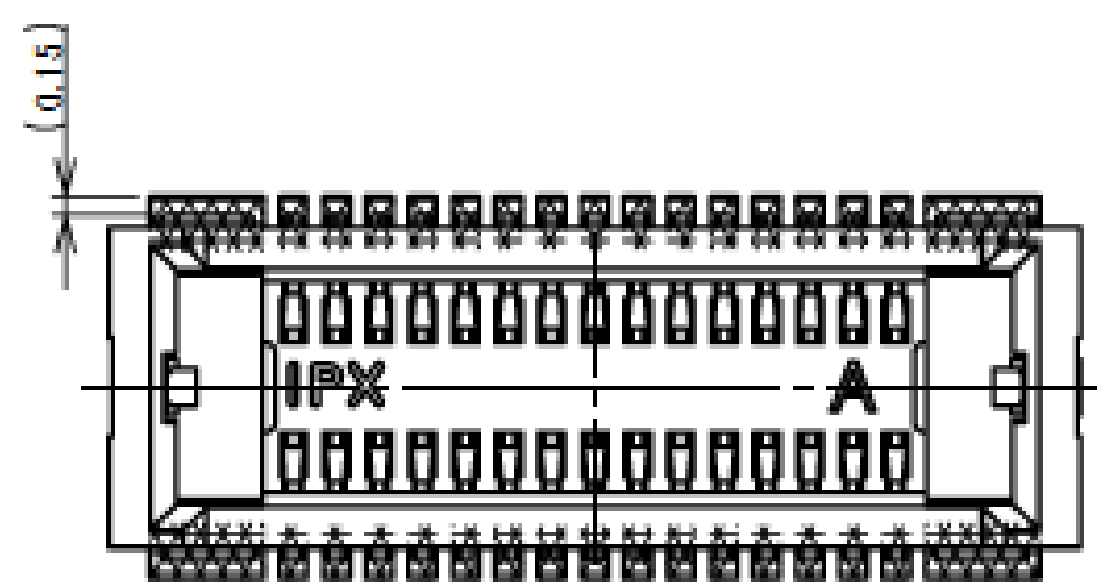


DO NOT MOUNT ANY OHTER COMPONENTS IN THIS AREA

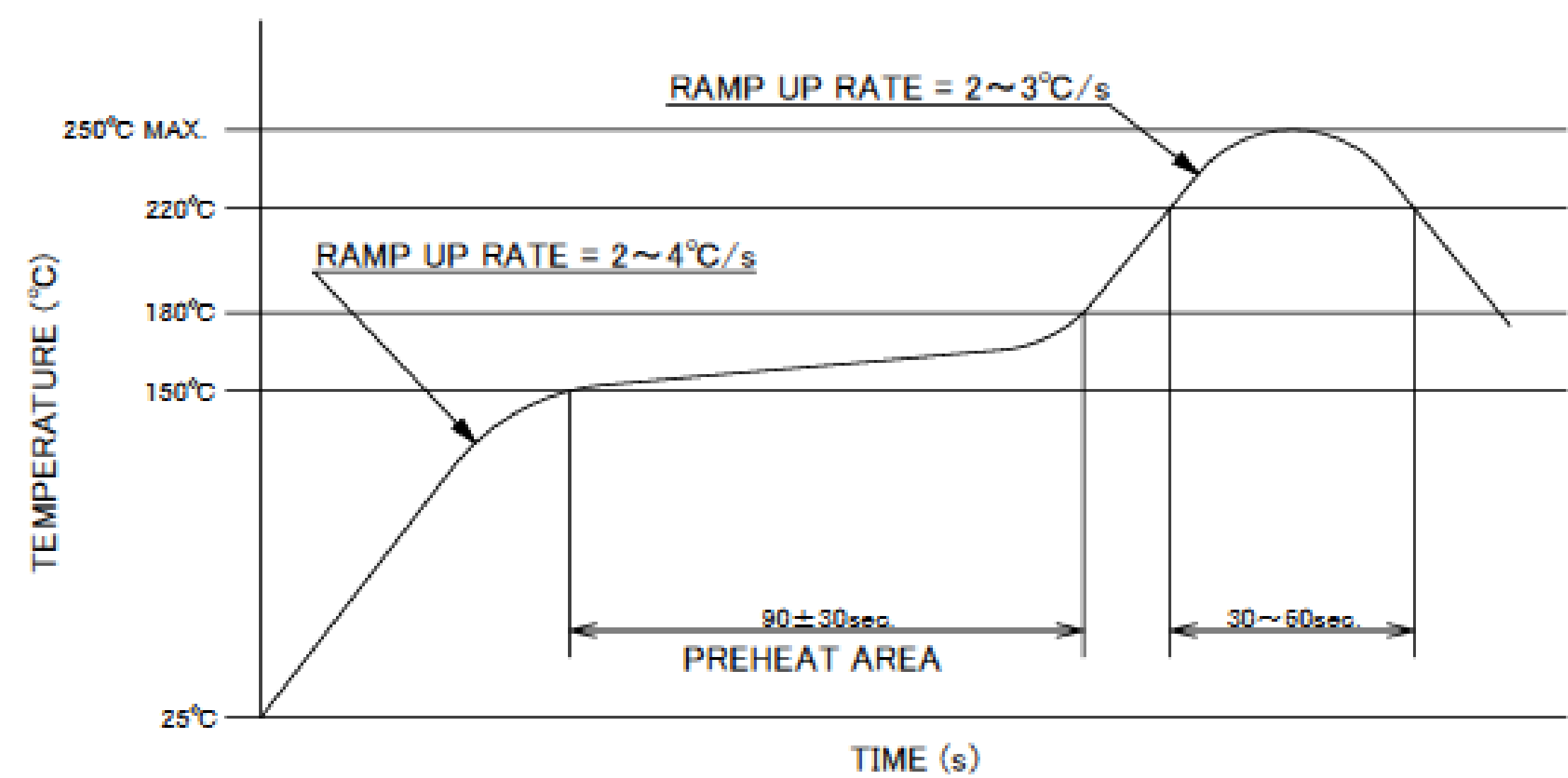


RECOMMENDED PAD LAYOUT

Rev.5



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN LAYOUT



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

Rev.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 : $\triangle$ 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)	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***

Rev.5

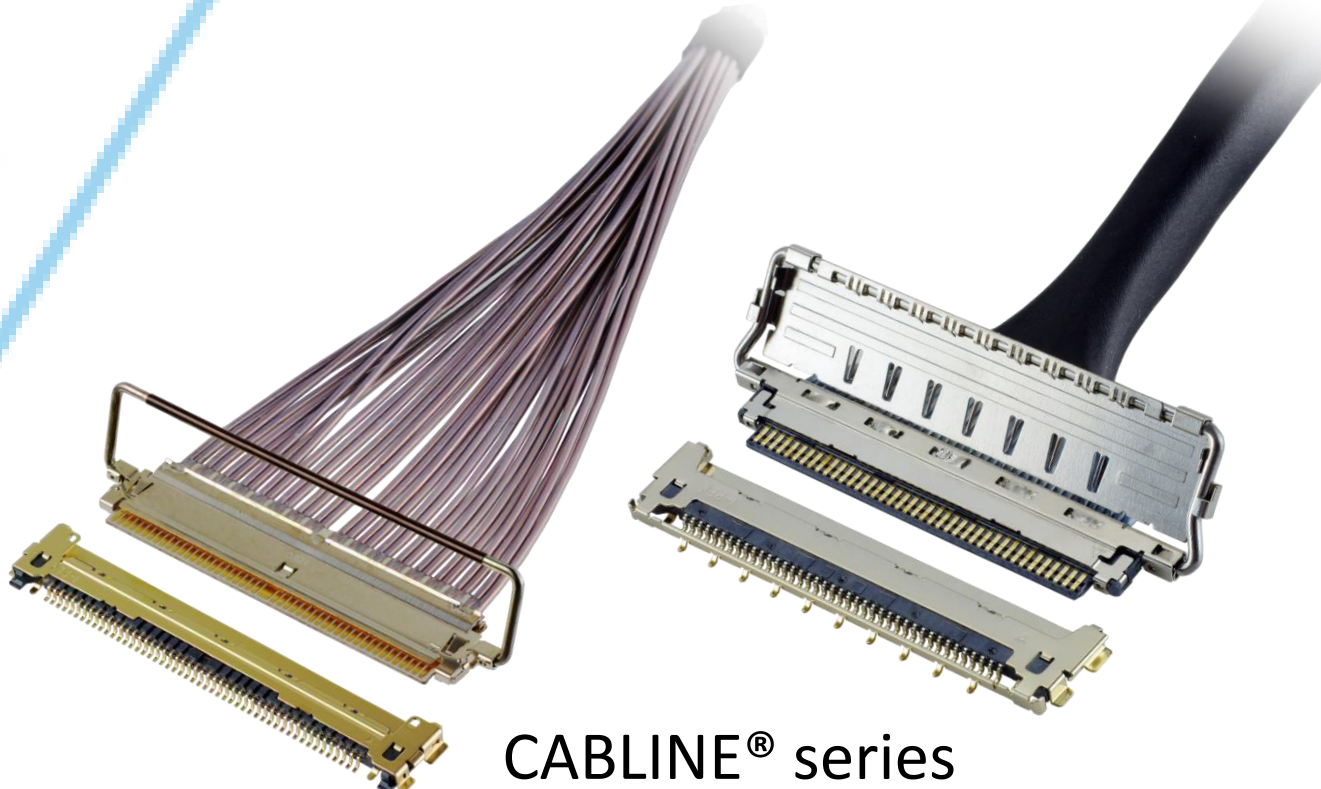
Custom Connectors Available

 RF
Connectors

MHF® series



CABLINE® series



Micro-coaxial/Twinax
Connectors

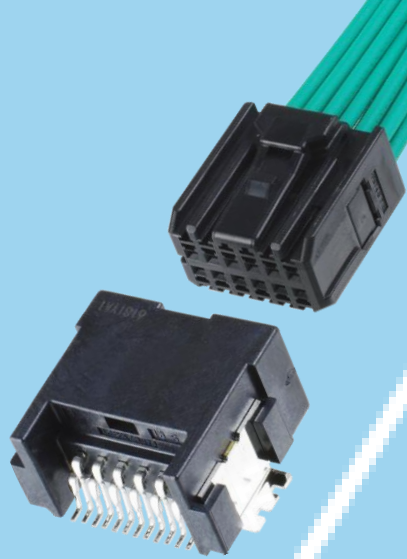


Wire-to-Board
Connectors/
Terminals

AP series



ISH® series



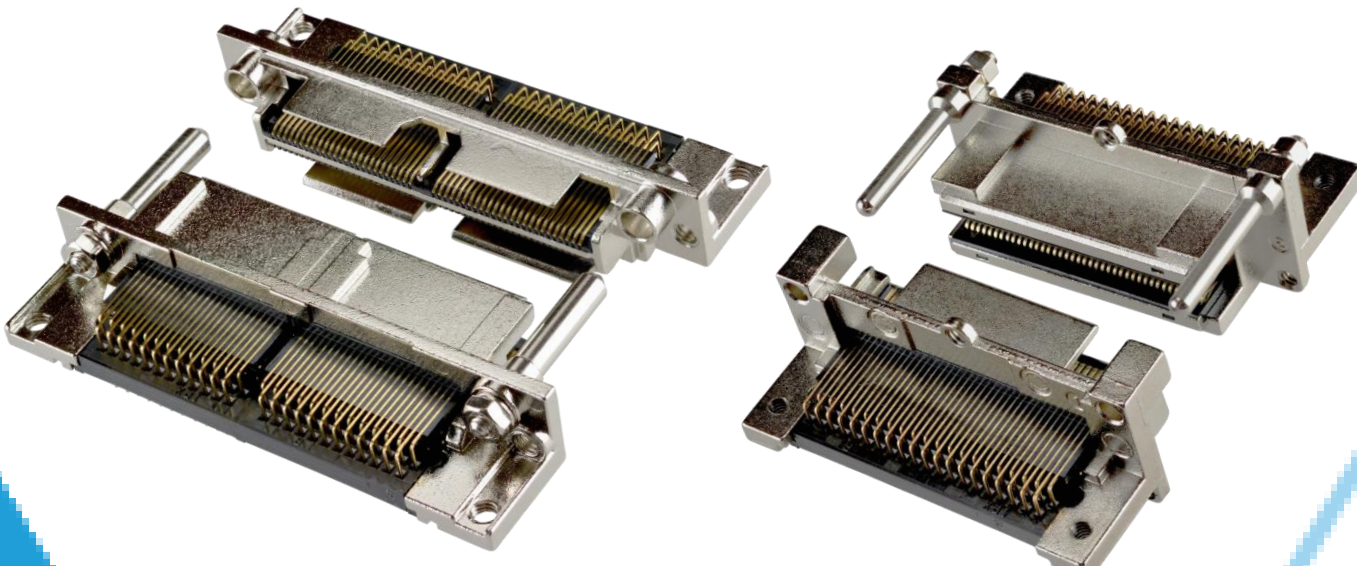
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



MINIDOCK™ series

MINIFLEX® series

EVAFLEX® series



FPC/FFC
Connectors



Inquiry



I-PEX, MHF, CABLINE, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCK and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents. Please be sure to read and understand the latest “Precautions for Use” and “Instruction Manual” before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative
or more detailed information.

www.i-pex.com



I-PEX

© I-PEX Inc. 2025
All rights reserved