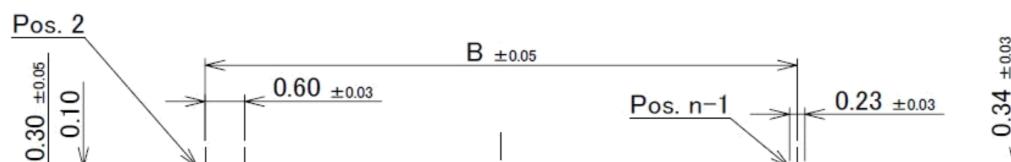
FPC/FFC Connector

MINIFLEX® 3-BFNH

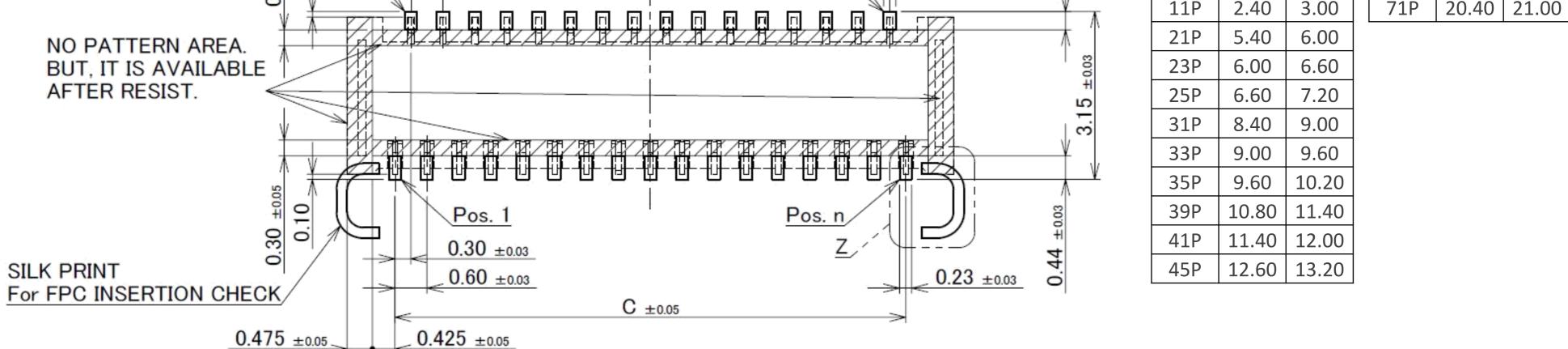
유지력 강화, 타사 제품과 호환되는 실장 패턴 0.3 mm Pitch, 수평 결합, 백플립

	Product Specifications:		Short Actuator	Long Actuator	Applicable FPC/FFC:			
	Board Pitch (mm)		0.3		FPC/FFC Contact Pitch	0.3		
			Contact A: 1.0		FPC/FFC Contact Point	Top and Bottom		
	Wiping Length (mm)		Contact B: 0.45		FPC/FFC Thickness (mm)	0.2 +/- 0.03		
	Size (mm)	Height	0.90 +/- 0.10					
		Width	1.5 +(0.3 *?p)					
		Depth	2.95					
			3.15	3.5				
		Range	7-71 (odd)	33-71 (odd)				
	Pin counts	Available	7,9,11,21,23,25,31,33,35,39,	51, 61, 71				
			41,45	51, 01, 71				
	*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁 드립니다.							

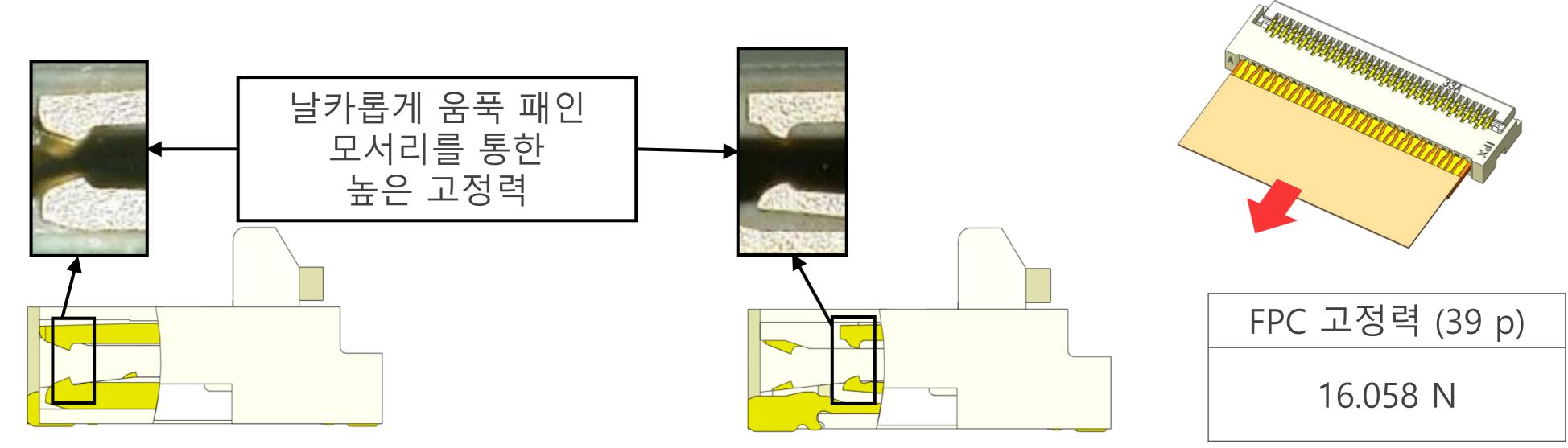
▶ 타사 제품과 호환되는 실장 패턴 및 FPC 패턴



Shc	ort actua	ator	Long actuator			
Pos.	В	С	Pos.	В	С	
7P	1.20	1.80	51P	14.40	15.00	
9P	1.80	2.40	61P	17.40	18.00	



단자 접점부를 샤프 엣지 형상으로 하여 보다 높은 FPC 유지력 보유





접촉-B

> 독자적인 홀더 형상에 의한 액추에이터의 탈락을 방지

액추에이터 홀더 부품이 액추에이터의 벗겨지는 움직임에 대해 보호 장치 역할 수행

액추에이터 박리력 (액추에이터 가장자리로부터 2mm 위치에서 액추에이터가 바깥쪽으로 당김.)

8.35 N



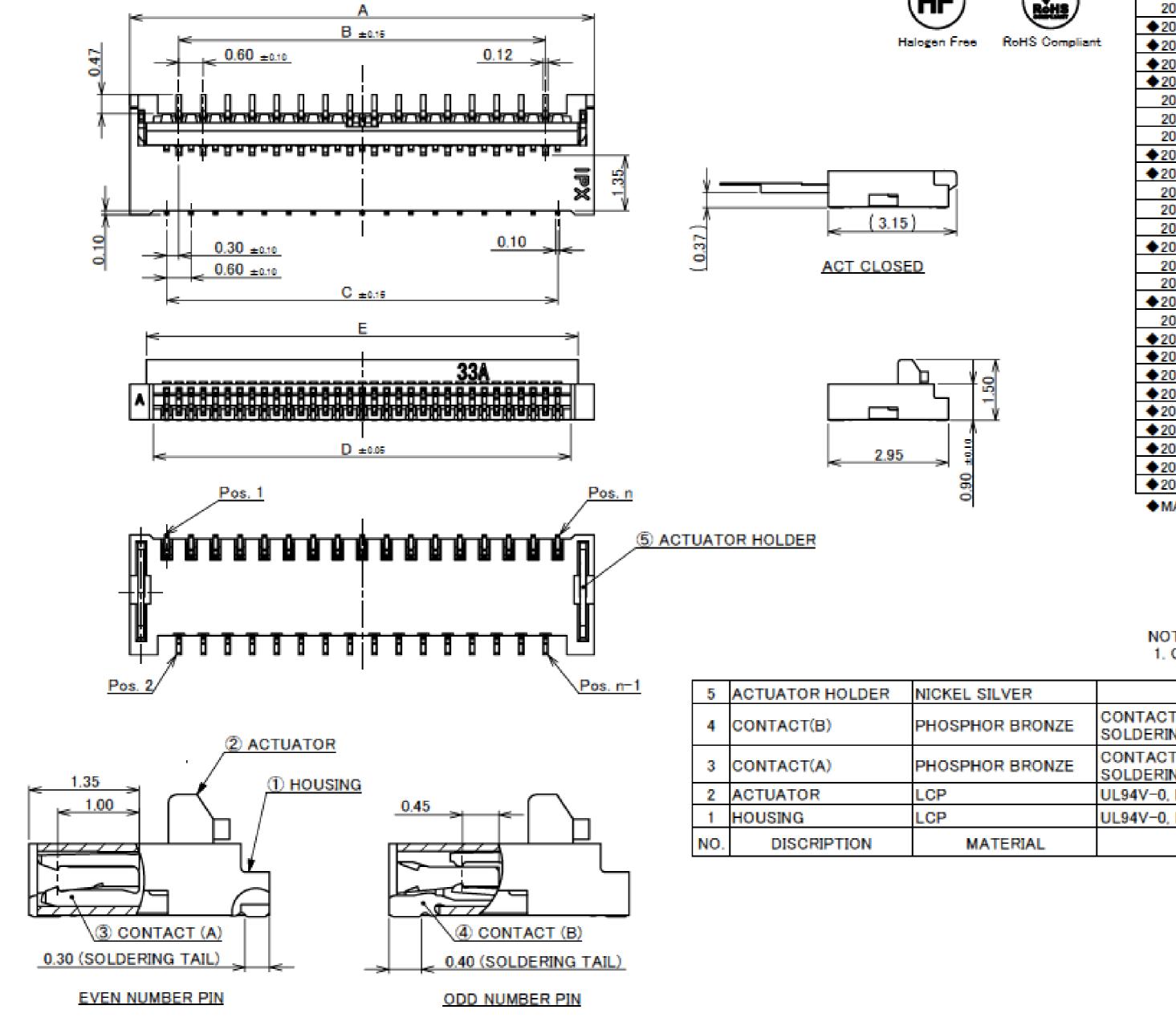
자세한 내용은 영업 담당자에게 문의하십시오. <u>www.i-pex.com</u>

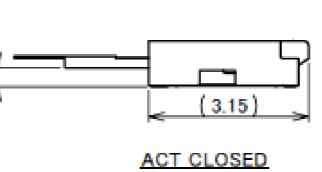


Component Parts Details

Connector Assembly

Recommended P/N 20613-0**E-02





HF

PART No.	Pos.	Α	B	С	D	E	
20613-007E-02	7P	3.60	1.20	1.80	2.45	2.80	
20613-009E-02	9P	4.20	1.80	2.40	3.05	3.40	
20613-011E-02	11P	4.80	2.40	3.00	3.65	4.00	
20613-013E-02	13P	5.40	3.00	3.60	4.25	4.60	
♦20613-015E-02	15P	6.00	3.60	4.20	4.85	5.20	
♦20613-017E-02	17P	6.60	4.20	4.80	5.45	5.80	
20613-019E-02	19P	7.20	4.80	5.40	6.05	6.40	
20613-021E-02	21P	7.80	5.40	6.00	6.65	7.00	
20613-023E-02	23P	8.40	6.00	6.60	7.25	7.60	
20613-025E-02	25P	9.00	6.60	7.20	7.85	8.20	
20613-027E-02	27P	9.60	7.20	7.80	8.45	8.80	
20613-029E-02	29P	10.20	7.80	8.40	9.05	9.40	
20613-031E-02	31P	10.80	8.40	9.00	9.65	10.00	
20613-033E-02	33P	11.40	9.00	9.60	10.25	10.60	
20613-035E-02	35P	12.00	9.60	10.20	10.85	11.20	
20613-037E-02	37P	12.60	10.20	10.80	11.45	11.80	
20613-039E-02	39P	13.20	10.80	11.40	12.05	12.40	
20613-041E-02	41P	13.80	11.40	12.00	12.65	13.00	
20613-043E-02	43P	14.40	12.00	12.60	13.25	13.60	
20613-045E-02	45P	15.00	12.60	13.20	13.85	14.20	
20613-047E-02	47P	15.60	13.20	13.80	14.45	14.80	
20613-049E-02	49P	16.20	13.80	14.40	15.05	15.40	
20613-051E-02	51P	16.80	14.40	15.00	15.65	16.00	
20613-053E-02	53P	17.40	15.00	15.60	16.25	16.60	
20613-055E-02	55P	18.00	15.60	16.20	16.85	17.20	
20613-057E-02	57P	18.60	16.20	16.80	17.45	17.80	
20613-059E-02	59P	19.20	16.80	17.40	18.05	18.40	
20613-061E-02	61P	19.80	17.40	18.00	18.65	19.00	
20613-071E-02	71P	22.80	20.40	21.00	21.65	22.00	
MARK MEANS N	MARK MEANS NOT AVAILABLE.						

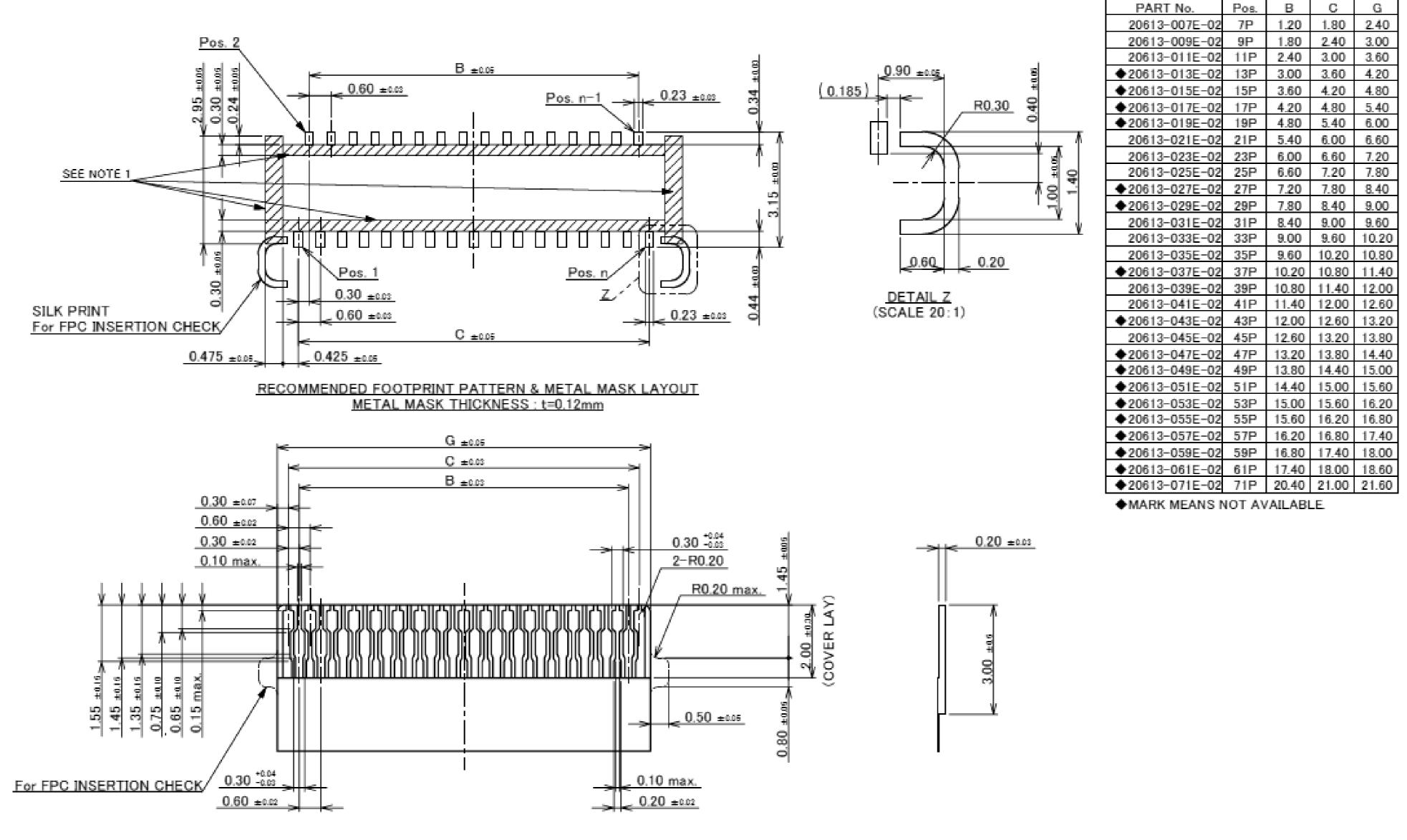
NOTE 1. CONTACT POINT : TOP AND BOTTOM CONTACT

5	ACTUATOR HOLDER	NICKEL SILVER	
4	CONTACT(B)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.0 μ m MIN.
3	CONTACT(A)	PHOSPHOR BRONZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.0 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN. OVER Ni 1.0 μ m MIN.
2	ACTUATOR	LCP	UL94V-0, BEIGE
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DISCRIPTION	MATERIAL	REMARKS

I-PEX

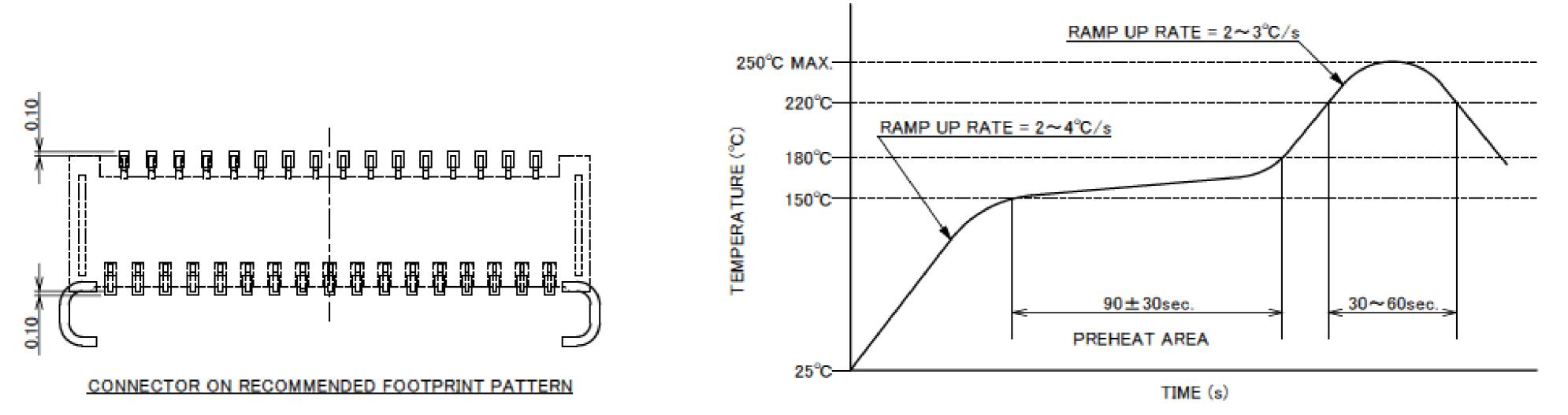
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Rev.16



RECOMMENDED FPC LAYOUT

1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.



Rev.16

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

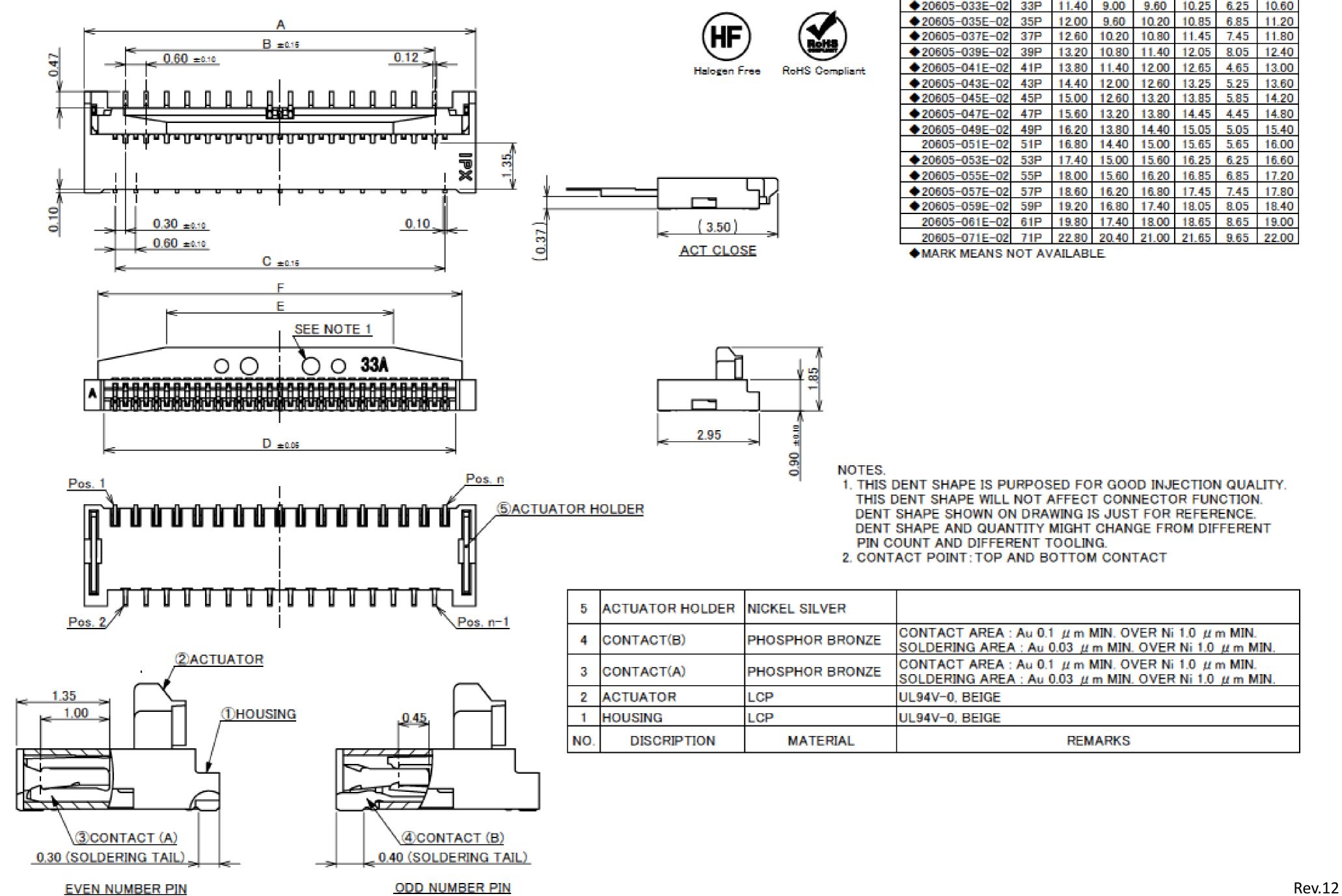
ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : 240mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : $0.35N(31gf) \times n MAX$. / 20TH CYCLES : $0.35N(31gf) \times n MAX$.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : $0.02N(2gf) \times n MIN. / 20TH CYCLES : 0.02N(2gf) \times n MIN.$
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : $0.13N(13gf) \times n MIN$. / AFTER TEST : $0.10N(10gf) \times n MIN$.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1846
TEST REPORT	TR-13104
PACKING STANDARD	PST-13054
INSTRUCTION MANUAL	HIM-14004
APPEARANCE CRITERIA No.	QLS-A***

<u> [1</u>]

※ "n" IS THE NUMBER OF PIN

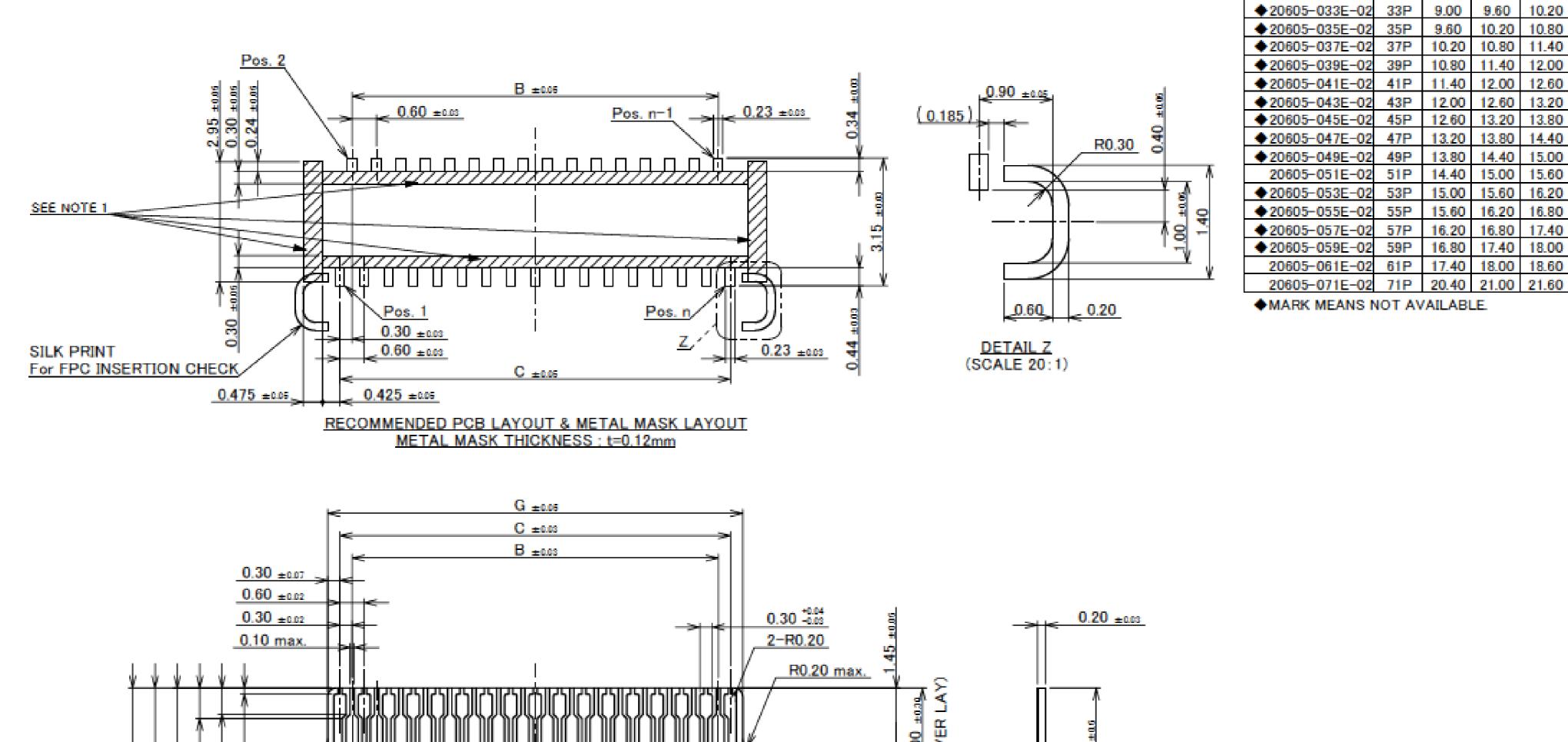
PLEASE BE SURE TO READ AND UNDERSTAND "INSTRUCTION MANUAL" BEFORE YOU USE OUR PRODUCTS. CAUTION

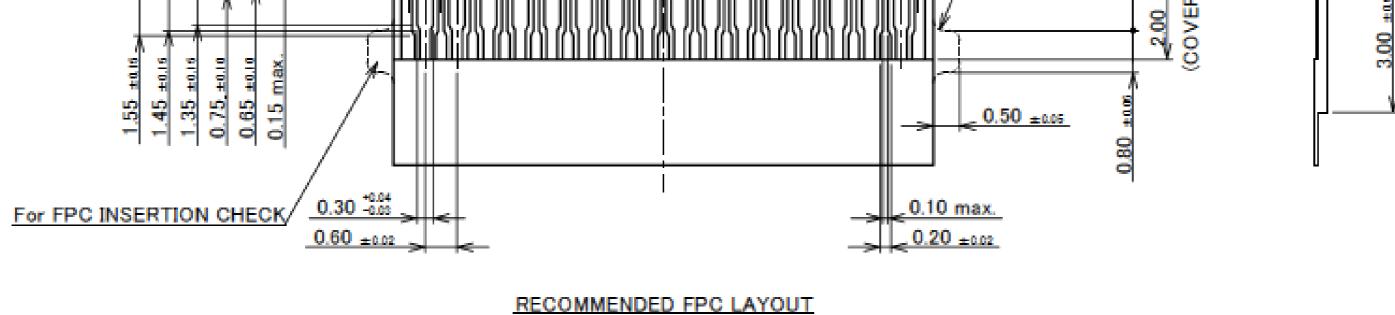
Recommended P/N 20605-0**E-02



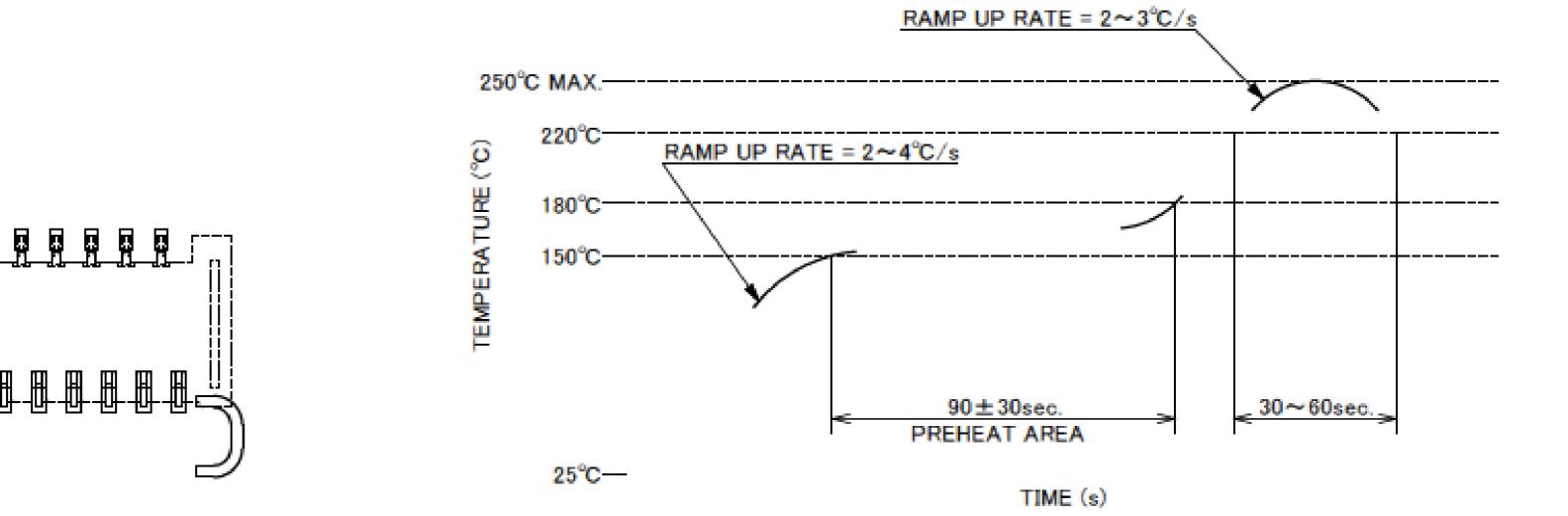
PART No.	Pos.	Α	B	С	D	E	F
20605-033E-02	33P	11.40	9.00	9.60	10.25	6.25	10.60
20605-035E-02	35P	12.00	9.60	10.20	10.85	6.85	11.20
20605-037E-02	37P	12.60	10.20	10.80	11.45	7.45	11.80
20605-039E-02	39P	13.20	10.80	11.40	12.05	8.05	12.40
20605-041E-02	41P	13.80	11.40	12.00	12.65	4.65	13.00
20605-043E-02	43P	14.40	12.00	12.60	13.25	5.25	13.60
20605-045E-02	45P	15.00	12.60	13.20	13.85	5.85	14.20
20605-047E-02	47P	15.60	13.20	13.80	14.45	4.45	14.80
20605-049E-02	49P	16.20	13.80	14.40	15.05	5.05	15.40
20605-051E-02	51P	16.80	14.40	15.00	15.65	5.65	16.00
20605-053E-02	53P	17.40	15.00	15.60	16.25	6.25	16.60
20605-055E-02	55P	18.00	15.60	16.20	16.85	6.85	17.20
20605-057E-02	57P	18.60	16.20	16.80	17.45	7.45	17.80
20605-059E-02	59P	19.20	16.80	17.40	18.05	8.05	18.40
20605-061E-02	61P	19.80	17.40	18.00	18.65	8.65	19.00
20605-071E-02	71P	22.80	20.40	21.00	21.65	9.65	22.00
MARK MEANS NOT AVAILABLE.							

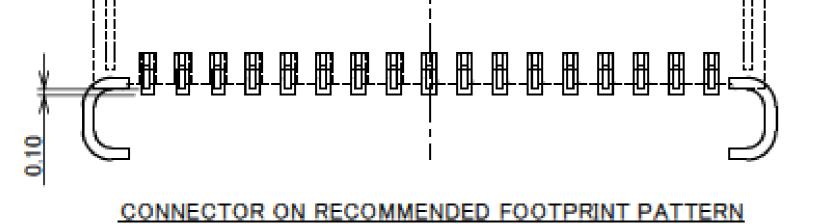
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>











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

PART No.

Pos.

В

C

G

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : 240mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20TH CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.245N(24.5gf) × n MAX. / 20TH CYCLES : 0.245N(24.5gf) × n MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL : 0.014N(1.4gf) × n MIN. / 20TH CYCLES : 0.014N(1.4gf) × n MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL : $0.13N(13gf) \times n MIN$. / AFTER TEST : $0.10N(10gf) \times n MIN$.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1920
TEST REPORT	TR-14022
PACKING STANDARD	PST-14013
INSTRUCTION MANUAL	HIM-14004
APPEARANCE CRITERIA	QLS-A***

※ "n" IS THE NUMBER OF PIN



CAUTION BEFORE YOU USE OUR PRODUCTS.

Rev.12

I-PEX

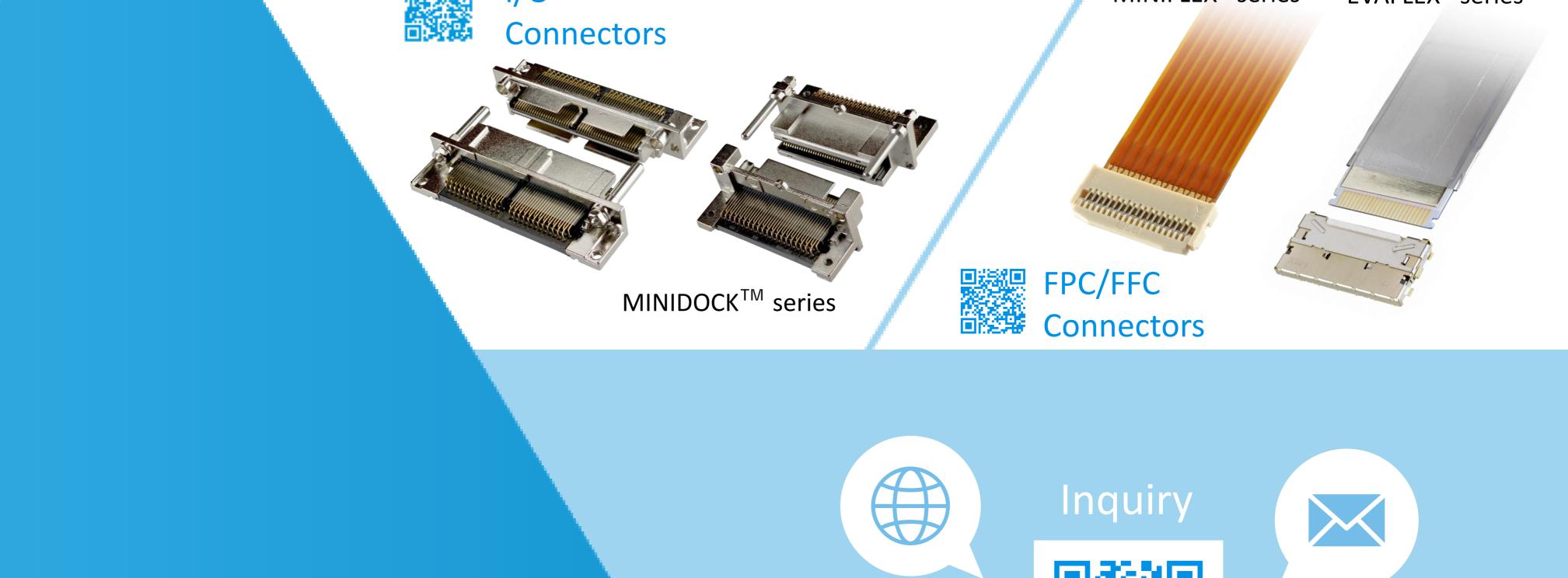
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>



I/O

MINIFLEX[®] series

EVAFLEX[®] series



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 Inc. 2025 All rights reserved