MINIFLEX® 3-BFNH

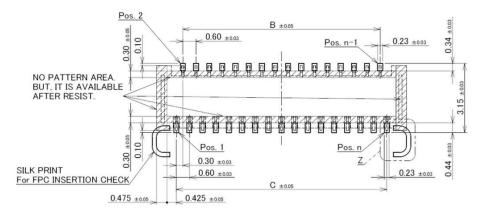
Improved retention force, footprint compatibility, 0.3 mm pitch, horizontal

Product Specifications:		cifications:	Short Actuator	Long Actuator		
	Board Pitch (mm)		0.3			
	Wiping Length (mm)		Contact A: 1.0			
			Contact B: 0.45			
	Height Width		0.90 +/- 0.10			
			1.5 +(0.3 *?p)			
	Size (mm)	Depth	2.95			
	Бериі		3.15	3.5		
	Pin counts Range		7-71 (odd)	33-71 (odd)		
			7 0 11 21 22 21 25 20 /1 /5	51 61 71		

ı	Applicable FPC/FFC:				
1	FPC/FFC Contact Pitch	0.3			
	FPC/FFC Contact Point	Top and Bottom			
1	FPC/FFC Thickness (mm)	0.2 +/- 0.03			

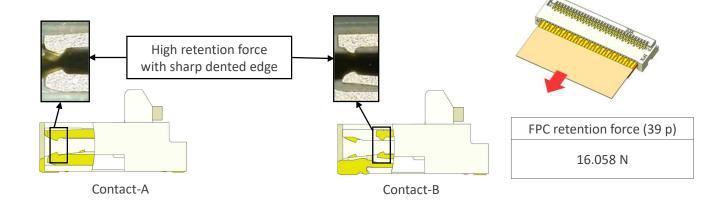


Footprint compatible with industry standard products



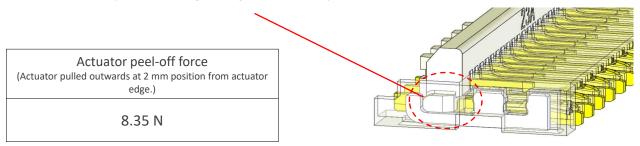
Short actuator			Long actuator		
Pos.	В	С	Pos.	В	С
7P	1.20	1.80	51P	14.40	15.00
9P	1.80	2.40	61P	17.40	18.00
11P	2.40	3.00	71P	20.40	21.00
21P	5.40	6.00			
23P	6.00	6.60			
31P	8.40	9.00			
35P	9.60	10.20			
39P	10.80	11.40			
41P	11.40	12.00			
45P	12.60	13.20			

Designed with sharp edge for stronger FPC retention force



Unique actuator holder design prevents actuator drop-off

Actuator holder parts act as a guard against actuator peel-off action

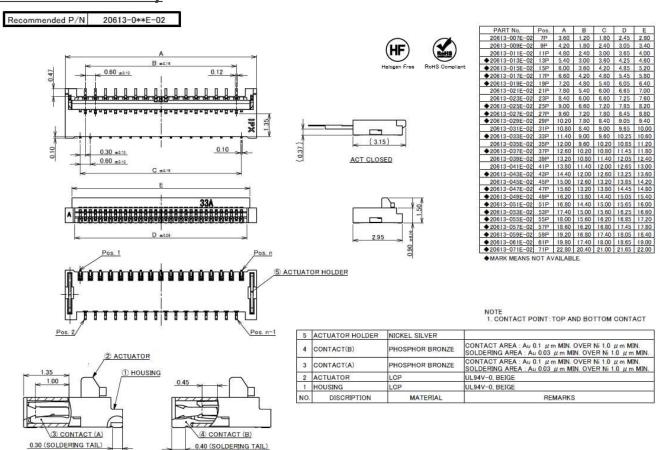




^{*} Please inquire for pin counts not listed or outside of the pin count range.

Component Parts Details

Connector Assembly

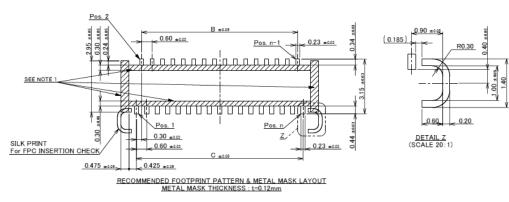


Rev.14



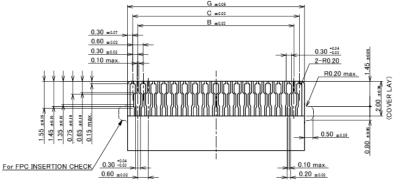
EVEN NUMBER PIN

ODD NUMBER PIN



PART No.	Pos.	В	C	G
20613-007E-02	7P	1.20	1.80	2.40
20613-009E-02	9P	1.80	2.40	3.00
20613-011E-02	11P	2.40	3.00	3.60
◆20613-013E-02	13P	3.00	3.60	4.20
◆20613-015E-02	15P	3.60	4.20	4.80
◆20613-017E-02	17P	4.20	4.80	5.40
◆20613-019E-02	19P	4.80	5.40	6.00
20613-021E-02	21P	5.40	6.00	6.60
20613-023E-02	23P	6.00	6.60	7.20
◆20613-025E-02	25P	6.60	7.20	7.80
◆20613-027E-02	27P	7.20	7.80	8.40
◆20613-029E-02	29P	7.80	8.40	9.00
20613-031E-02	31P	8.40	9.00	9.60
◆20613-033E-02	33P	9.00	9.60	10.20
20613-035E-02	35P	9.60	10.20	10.80
♦20613-037E-02	37P	10.20	10.80	11.40
20613-039E-02	39P	10.80	11.40	12.00
20613-041E-02	41P	11.40	12.00	12.60
◆20613-043E-02	43P	12.00	12.60	13.20
20613-045E-02	45P	12.60	13.20	13.80
◆20613-047E-02	47P	13.20	13.80	14.40
◆20613-049E-02	49P	13.80	14.40	15.00
◆20613-051E-02	51P	14.40	15.00	15.60
◆20613-053E-02	53P	15.00	15.60	16.20
◆20613-055E-02	55P	15.60	16.20	16.80
◆20613-057E-02	57P	16.20	16.80	17.40
◆20613-059E-02	59P	16.80	17.40	18.00
◆20613-061E-02	61P	17.40	18.00	18.60
◆20613-071E-02	71P	20.40	21.00	21.60

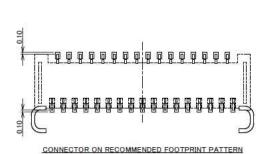
♦MARK MEANS NOT AVAILABLE.

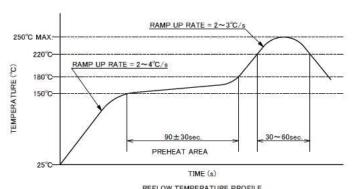


RECOMMENDED FPC LAYOUT

NOTE
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Rev.14





0.20 ±0.03

REFLOW TEMPERATURE PROFILE SENJU METAL INDUSTRY CO. LTD.: M705-SHF(Sn96.5 Ar3.0 Cu0.5)



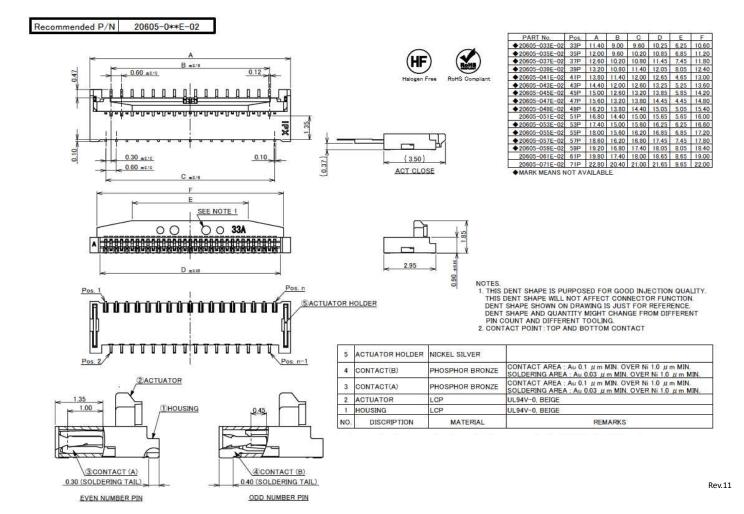
ITEMS	SPECIFICATION			
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)			
RATING AMPERAGE	0.3A DC (PER CONTACT PIN)			
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)			
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)			
CONTACT RESISTANCE	INITIAL : 60mohm MAX, / AFTER TEST : △40mohm MAX.			
INSULATION RESISTANCE	100Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min			
DURABILITY	20TH CYCLES			
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL: 0.35N(31gf) × n MAX. / 20TH CYCLES: 0.35N(31gf) × n MAX.			
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL: 0.02N(2gf) × n MIN. / 20TH CYCLES: 0.02N(2gf) × n MIN.			
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N(13gf) × n MIN. / AFTER TEST: 0.10N(10gf) × 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***			

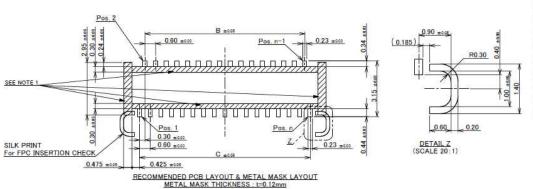
% "n" IS THE NUMBER OF PIN

Δ

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

Rev.14





PART No.	Pos.	В	C	G
◆20605-033E-02	33P	9.00	9.60	10.20
♦20605-035E-02	35P	9.60	10.20	10.80
◆20605-037E-02	37P	10.20	10.80	11.40
◆20605-039E-02	39P	10.80	11.40	12.00
◆20605-041E-02	41P	11.40	12.00	12.60
◆20605-043E-02	43P	12.00	12.60	13.20
◆20605-045E-02	45P	1260	13.20	13.80
◆20605-047E-02	47P	13.20	13.80	14.40
◆20605-049E-02	49P	13.80	14.40	15.00
20605-051E-02	51P	14.40	15.00	15.60
◆20605-053E-02	53P	15.00	15.60	16.20
◆20605-055E-02	55P	15.60	16.20	16.80
◆20605-057E-02	57P	16.20	16.80	17.40
◆20605-059E-02	59P	16.80	17.40	18.00
20605-061E-02	61P	17.40	18.00	18.60
20605-071E-02	71P	20.40	21.00	21.60

G =0.05

C =0.05

B =0.05

O.30 =0.02

O.10 max

O.10 max

O.50 =0.05

O.20 =0.05

O.20 =0.05

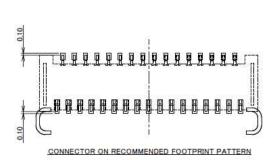
O.20 =0.05

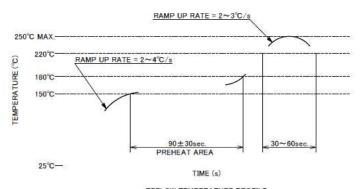
O.30 =0

RECOMMENDED FPC LAYOUT

NOTE
1. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Rev.11





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 : △40mohm 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



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

Rev.11





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