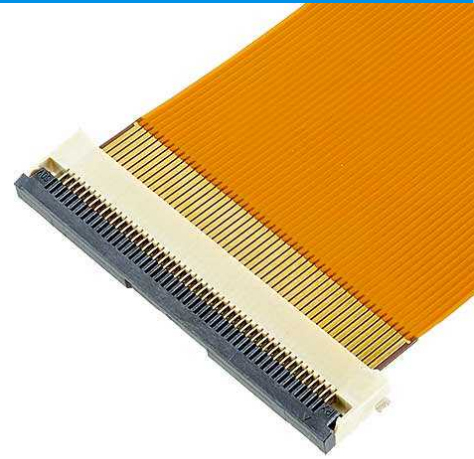


MINIFLEX® 5-BF III

타사 제품과 호환되는 실장 패턴 및 FPC 패턴, 높이 = 2.0 mm, 0.5 mm Pitch, 수평 결합, 백플립



Product Specifications:

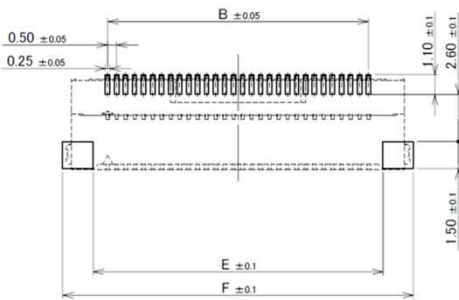
Board Pitch (mm)	0.5	
Wiping Length (mm)	1.35	
Size (mm)	Height	2.0 +/-0.2
	Width	Formula: 3.5+(0.5*?p)
	Depth	Open: 4.92 Close: 5.9
Pin counts	Range	10-60 (even)
	Available	8,10,12,14,18,20,22,24,30,34,36,38,40,45,50

Applicable FPC/FFC:

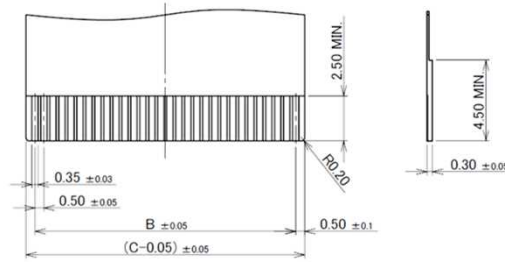
FPC/FFC Contact Pitch	0.5
FPC/FFC Contact Point	Top and Bottom
FPC/FFC Thickness (mm)	0.3 +/- 0.05

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

▶ 타사 제품과 호환되는 실장 패턴 및 FPC 패턴



권장 PCB 레이아웃 및 메탈 마스크 레이아웃
메탈 마스크 두께: t=0.12 mm

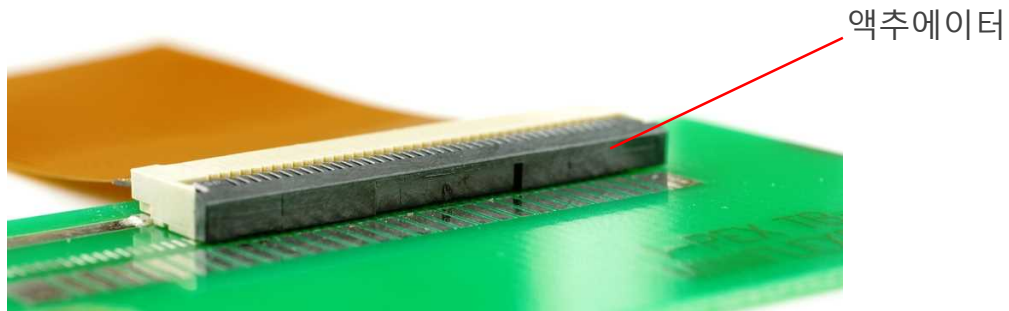


권장 FPC/FFC 레이아웃

위치	B	C	E	F
8P	3.50	4.55	5.10	8.50
10P	4.50	5.55	6.10	9.50
12P	5.50	6.55	7.10	10.50
14P	6.50	7.55	8.10	11.50
18P	8.50	9.55	10.10	13.50
20P	9.50	10.55	11.10	14.50
22P	10.50	11.55	12.10	15.50
24P	11.50	12.55	13.10	16.50
30P	14.50	15.55	16.10	19.50
34P	16.50	17.55	18.10	21.50
36P	17.50	18.55	19.10	22.50
38P	18.50	19.55	20.10	23.50
40P	19.50	20.55	21.10	24.50
45P	22.00	23.05	23.60	27.00
50P	24.50	25.55	26.10	29.50

▶ 방진 기능을 포함하는 커버

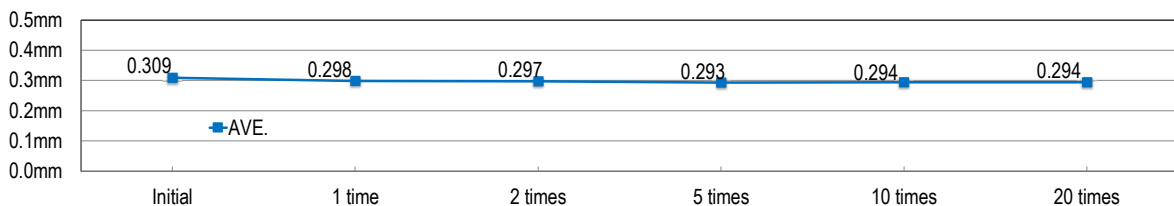
액추에이터가 잠겨있을 때, 액추에이터는 풀 커버로 작동하여 열 때 Contact 손상을 방지하고 또한 먼지 오염 및 합선을 방지합니다



▶ FPC 미삽입 상태에서도 액추에이터 닫기 조작 가능(단자 변형 최소화)

SMT 공정 후에 FPC를 삽입하지 않고 우연히 액추에이터를 닫은 경우에도 Contact 변형 최소화

■ 커넥터가 여전히 안정적으로 작동합니다(FPC를 삽입하지 않은 상태에서 액추에이터 작동 전후 접촉 간격 그래프 40핀)



■ 커넥터의 삽입력 상승

■ 커넥터의 고정력은 큰 변화 없음

Component Parts Details

Connector Assembly

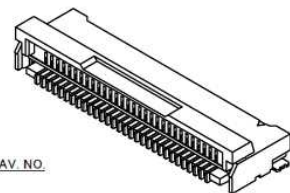
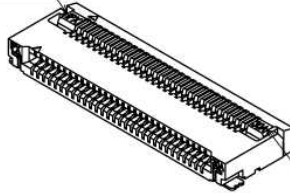
Recommended P/N		20593-0**E-01			
PART NO.	Pos.	A	B	C	D
20593-008E-01#	8	7.50	3.50	4.55	8.10
20593-010E-01#	10	8.50	4.50	5.55	9.10
20593-012E-01#	12	9.50	5.50	6.55	10.10
20593-014E-01#	14	10.50	6.50	7.55	11.10
20593-018E-01#	18	12.50	8.50	9.55	13.10
20593-020E-01#	20	13.50	9.50	10.55	14.10
20593-022E-01#	22	14.50	10.50	11.55	15.10
20593-024E-01#	24	15.50	11.50	12.55	16.10
20593-030E-01#	30	18.50	14.50	15.55	19.10
20593-034E-01#	34	20.50	16.50	17.55	21.10
20593-036E-01#	36	21.50	17.50	18.55	22.10
20593-038E-01#	38	22.50	18.50	19.55	23.10
20593-040E-01#	40	23.50	19.50	20.55	24.10
20593-045E-01#	45	26.00	22.00	23.05	26.60
20593-050E-01#	50	28.50	24.50	25.55	29.10
◆20593-060E-01#	60	33.50	29.50	30.55	34.10

◆MARK MEANS NOT AVAILABLE

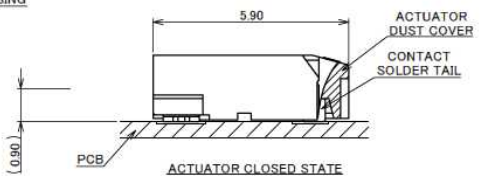
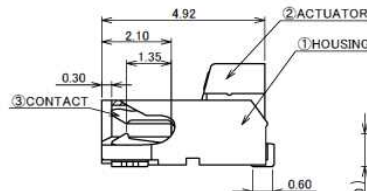
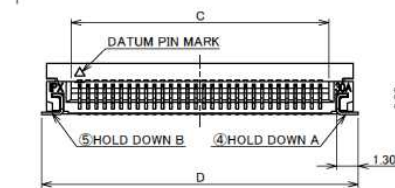
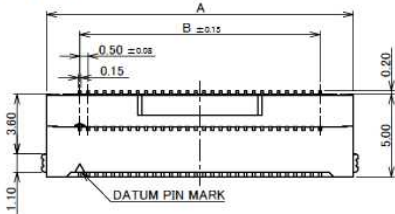
P/N : 20593-0**E-01 M
 WITHOUT : 2,000pcs/REEL
 WITH : 500pcs/REEL



LOGO MARK



POS. & CAV. NO.



5	HOLD DOWN B	PHOSPHOR BRONZE	Sn 2.00 μm MIN. OVER Ni 1.00 μm MIN.
4	HOLD DOWN A	PHOSPHOR BRONZE	Sn 2.00 μm MIN. OVER Ni 1.00 μm MIN.
3	CONTACT	PHOSPHOR BRONZE	Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.
2	ACTUATOR	LCP	UL94V-0, BLACK
1	HOUSING	LCP	UL94V-0, BEIGE
NO.	DISCRPTION	MATERIAL	FINISH, REMARKS

NOTES

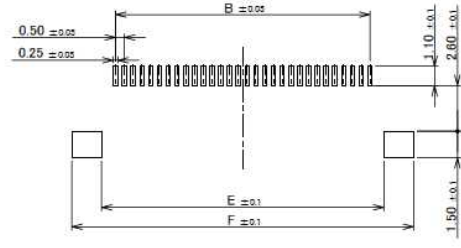
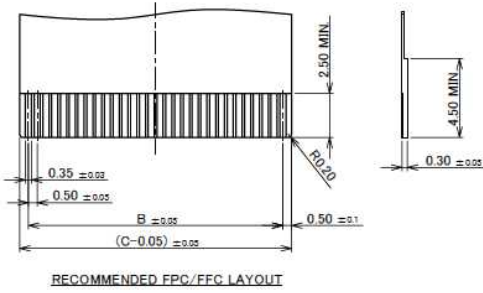
1. CONTACT POINT : Top and Bottom

△ VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-06004 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

Connector Assembly

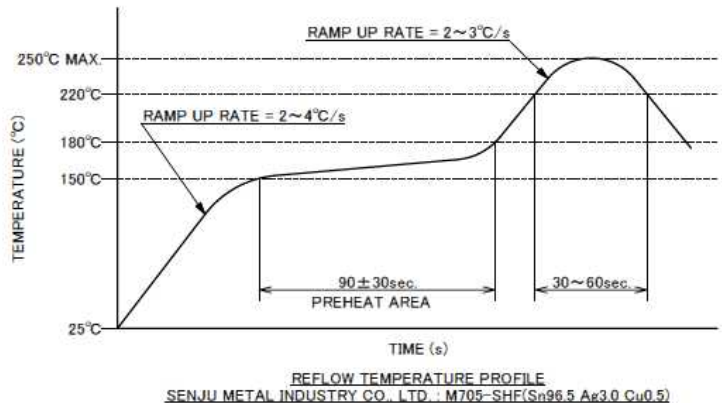
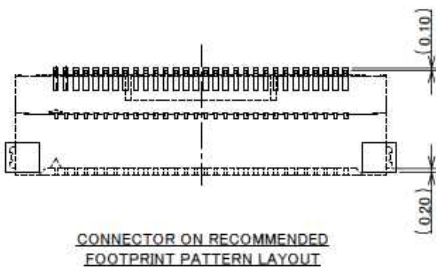
PART No.	Pos.	B	C	E	F
20593-008E-01#	8	3.50	4.55	5.10	8.50
20593-010E-01#	10	4.50	5.55	6.10	9.50
20593-012E-01#	12	5.50	6.55	7.10	10.50
20593-014E-01#	14	6.50	7.55	8.10	11.50
20593-018E-01#	18	8.50	9.55	10.10	13.50
20593-020E-01#	20	9.50	10.55	11.10	14.50
20593-022E-01#	22	10.50	11.55	12.10	15.50
20593-024E-01#	24	11.50	12.55	13.10	16.50
20593-030E-01#	30	14.50	15.55	16.10	19.50
20593-034E-01#	34	16.50	17.55	18.10	21.50
20593-036E-01#	36	17.50	18.55	19.10	22.50
20593-038E-01#	38	18.50	19.55	20.10	23.50
20593-040E-01#	40	19.50	20.55	21.10	24.50
20593-045E-01#	45	22.00	23.05	23.60	27.00
20593-050E-01#	50	24.50	25.55	26.10	29.50
◆20593-060E-01#	60	29.50	30.55	31.10	34.50

◆MARK MEANS NOT AVAILABLE.



- NOTES.
2. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.
 3. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

Rev.12



Rev.12

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT)
RATING AMPERAGE	0.5A AC/DC (PER CONTACT)/ 13A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	20~85%RH (NON-CONDENSING, NON-FREEZING)
CONTACT RESISTANCE	INITIAL: 50mohm MAX. / AFTER TEST: 70mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES: 0.50N (51gf) × nN MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20 CYCLES)	INITIAL / 20 CYCLES: 0.10N (10gf) × nN MIN.
FPC/FFC RETENTION FORCE	INITIAL / 20 CYCLES: 0.18N (18gf) × nN MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-1937
TEST REPORT	TR-14023
PACKING STANDARD	PST-14015
INSTRUCTION MANUAL	HIM-06004
APPEARANCE CRITERIA No.	QLS-A***

Rev.12

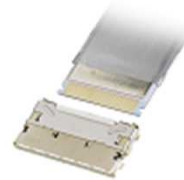
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Power



High-Power



I/O (Input/Output)



Quick charge



Effector



Custom Connectors Available

Inquiry



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Contact your sales representative or more detailed information.

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