

MINIFLEX® 5-BF III

封装和FPC尺寸兼容业内常规产品, 高度= 2.0 mm, 0.5 mm间距, 水平插拔, 后锁式

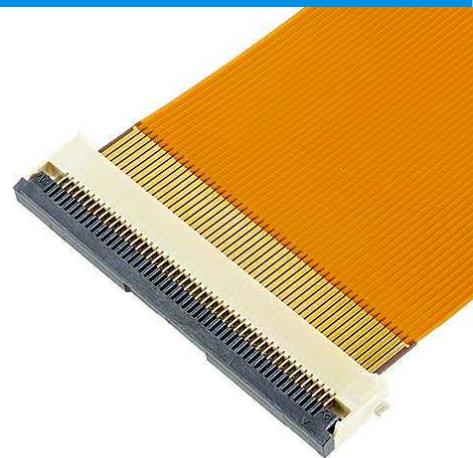
Product Specifications:

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

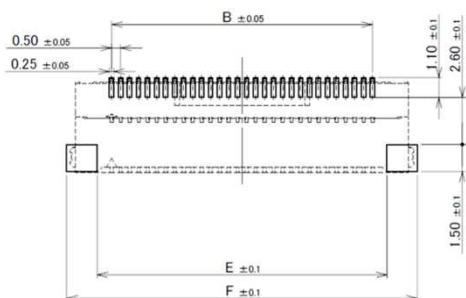
*如您需要了解未列出或不在范围内的Pin数, 请咨询我们。

Applicable FPC/FFC:

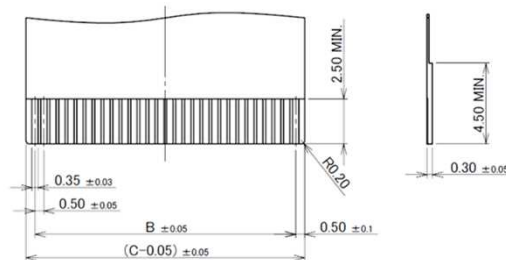
FPC/FFC Contact Pitch	0.5
FPC/FFC Contact Point	Top and Bottom
FPC/FFC Thickness (mm)	0.3 +/- 0.05



封装和FPC尺寸兼容业内常规产品



建议的PCB布局和钢网开口尺寸
钢网厚度: t=0.12 mm

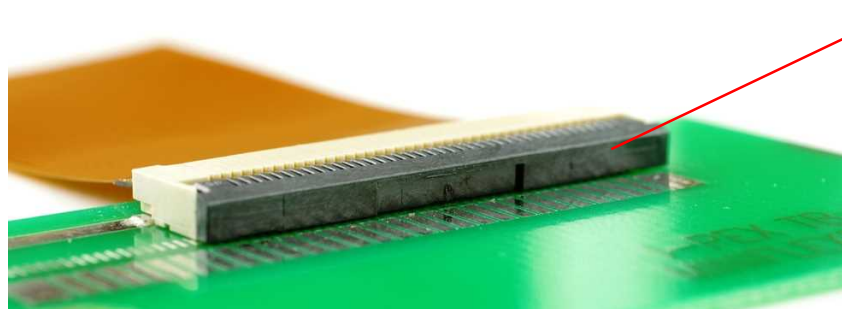


建议的FPC/FFC尺寸

位置	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

全包围式钢琴盖防止异物和端子变形

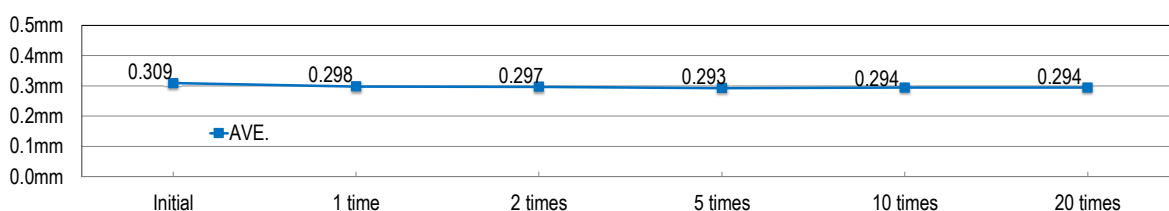
当钢琴盖锁住时, 钢琴盖作为一个完整的保护盖, 防止异物进入连接器而发生短路, 在打开钢琴盖时, 保护端子免遭损坏



在没有插入 FPC 的情况下闭合钢琴盖, 连接器仍可使用

在 SMT 加工后, 如果钢琴盖在没有插入 FPC 的情况下意外闭合, 连接器仍可使用

■ FPC 未插入情况下闭合钢琴盖, 其前后的接点间距离比较如图 (图表为 MINIFLEX® 5-BF III 40 pins)



■ FPC 插入力上升

■ FPC 保持力无太大变化

Component Parts Details

Connector Assembly

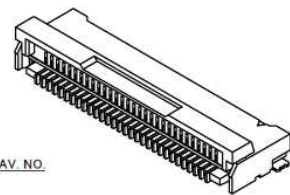
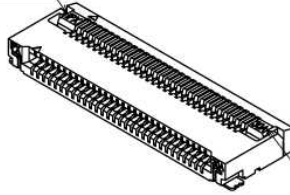
Recommended P/N		20593-0**E-01			
PART NO.	Pos.	A	B	C	D
20593-008E-01#	8	7.50	3.50	4.55	8.10
20593-010E-01#	10	8.50	4.50	5.55	9.10
20593-012E-01#	12	9.50	5.50	6.55	10.10
20593-014E-01#	14	10.50	6.50	7.55	11.10
20593-018E-01#	18	12.50	8.50	9.55	13.10
20593-020E-01#	20	13.50	9.50	10.55	14.10
20593-022E-01#	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

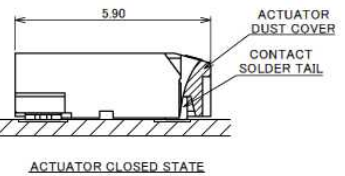
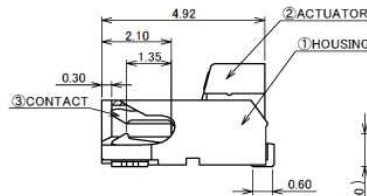
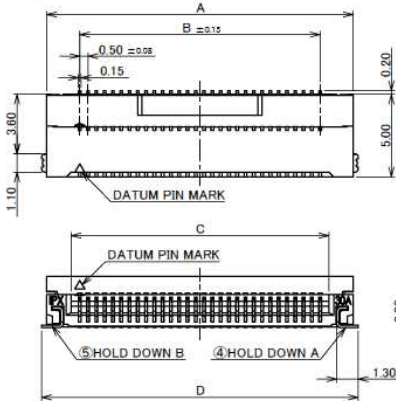
P/N : 20593-0**E-01 M
 WITHOUT : 2,000pcs/REEL
 WITH : 500pcs/REEL



LOGO MARK



POS. & CAV. NO.



NO.	DISCRPTION	MATERIAL	FINISH. REMARKS
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

NOTES

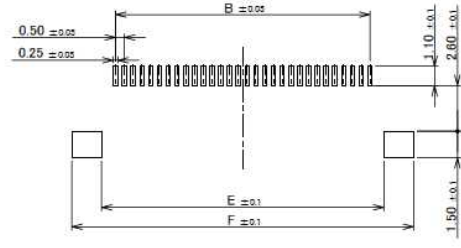
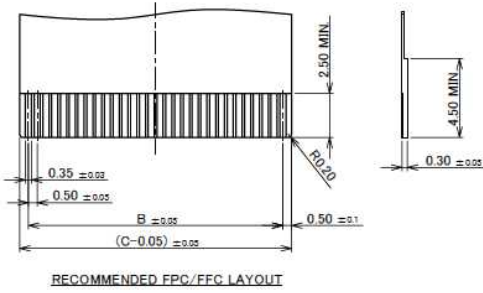
1. CONTACT POINT : Top and Bottom

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

Connector Assembly

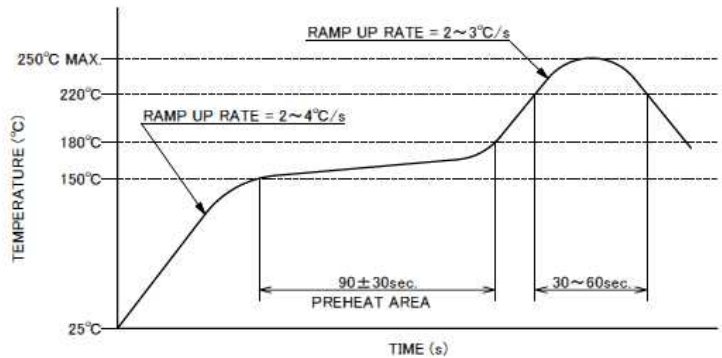
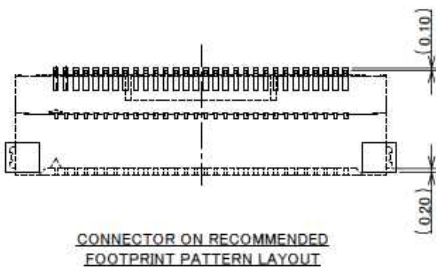
PART No.	Pos.	B	C	E	F
20593-008E-01#	8	3.50	4.55	5.10	8.50
20593-010E-01#	10	4.50	5.55	6.10	9.50
20593-012E-01#	12	5.50	6.55	7.10	10.50
20593-014E-01#	14	6.50	7.55	8.10	11.50
20593-018E-01#	18	8.50	9.55	10.10	13.50
20593-020E-01#	20	9.50	10.55	11.10	14.50
20593-022E-01#	22	10.50	11.55	12.10	15.50
20593-024E-01#	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

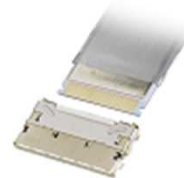
Board to Board



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

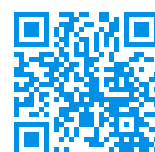


Effector



Custom Connectors Available

Inquiry



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