

MINIFLEX® 5-BF III

他社互換性のあるフットプリントとFPCパターン、高さ = 2.0 mm、0.5 mm
ピッチ、水平嵌合、バックフリップ

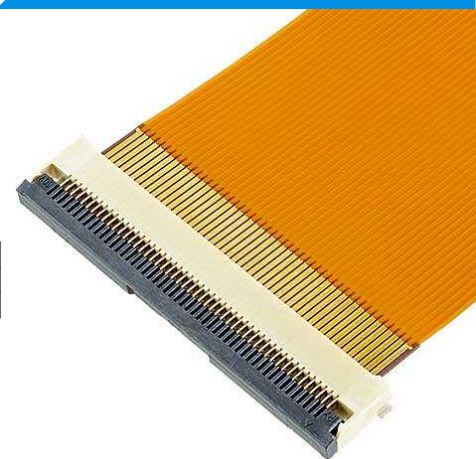
Product Specifications:

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

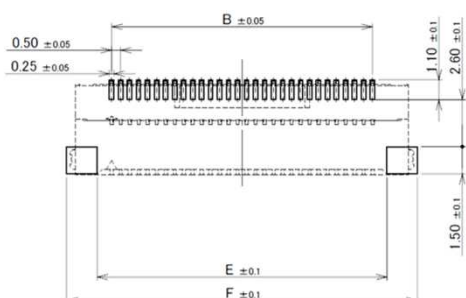
*記載のない極数の対応状況についてはお問い合わせください。

Applicable FPC/FFC:

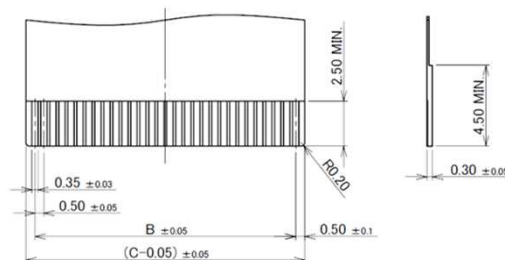
FPC/FFC Contact Pitch	0.5
FPC/FFC Contact Point	Top and Bottom
FPC/FFC Thickness (mm)	0.3 +/- 0.05



▶ 他社互換性のあるフットプリントとFPCパターン



推奨PCB レイアウトとメタルマスクレイアウト
メタルマスク厚さ: t=0.12 mm

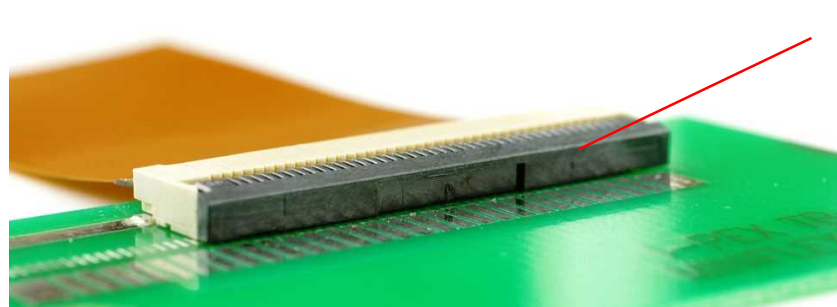


推奨 FPC/FFC レイアウト

Pos.	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

▶ 防塵機能付きカバー

アクチュエータロック時、防塵機能付きカバーとして半田付け部へのゴミの付着及び短絡防止
解除時のコンタクト破壊を防止

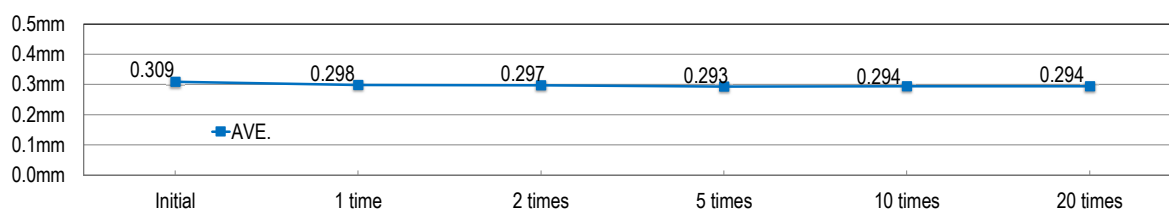


アクチュエータ

▶ FPC未挿入状態でのアクチュエータ空閉じ操作

SMTプロセス後に、もしもFPC未挿入状態でアクチュエータを操作してしまった場合でも十分にコネクタとして機能します

- FPC未挿入状態でのアクチュエータ空閉じ操作前後のコンタクト接点間寸法 (表図 MINIFLEX® 5-BF III 40 pins)



- FPC挿入力は上昇します
- FPC保持力に大きな変化はありません

Component Parts Details

Connector Assembly

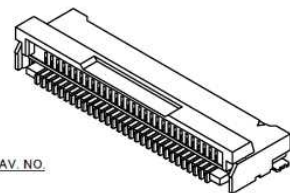
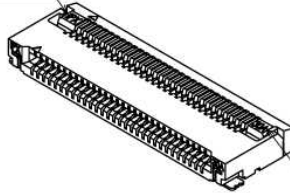
Recommended P/N		20593-0**E-01			
PART NO.	Pos.	A	B	C	D
20593-008E-01#	8	7.50	3.50	4.55	8.10
20593-010E-01#	10	8.50	4.50	5.55	9.10
20593-012E-01#	12	9.50	5.50	6.55	10.10
20593-014E-01#	14	10.50	6.50	7.55	11.10
20593-018E-01#	18	12.50	8.50	9.55	13.10
20593-020E-01#	20	13.50	9.50	10.55	14.10
20593-022E-01#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

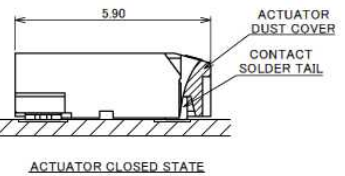
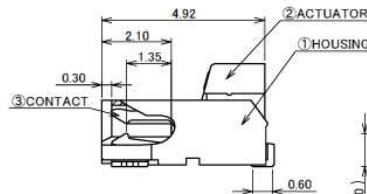
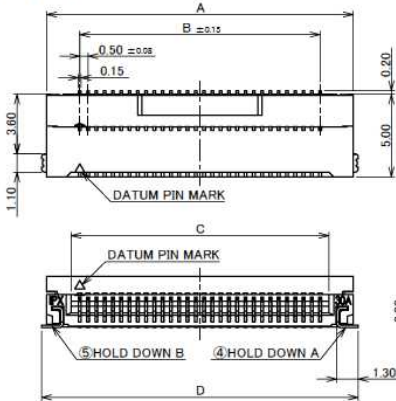
P/N : 20593-0**E-01 M
 WITHOUT : 2,000pcs/REEL
 WITH : 500pcs/REEL



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

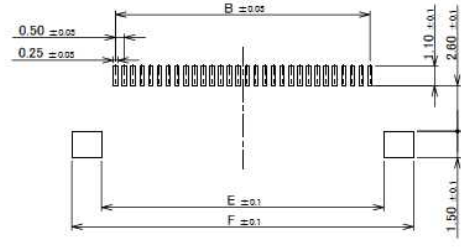
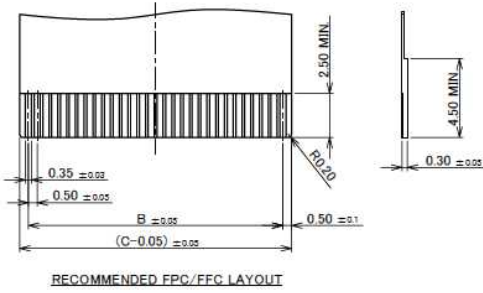
1. CONTACT POINT : Top and Bottom

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

Connector Assembly

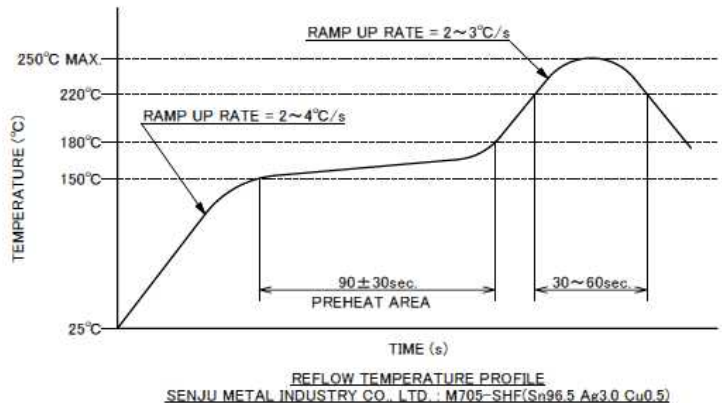
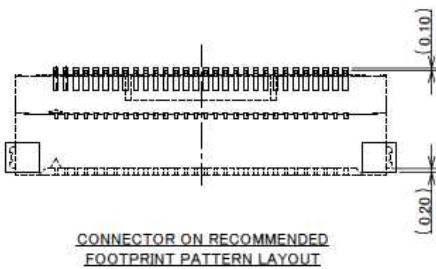
PART No.	Pos.	B	C	E	F
20593-008E-01#	8	3.50	4.55	5.10	8.50
20593-010E-01#	10	4.50	5.55	6.10	9.50
20593-012E-01#	12	5.50	6.55	7.10	10.50
20593-014E-01#	14	6.50	7.55	8.10	11.50
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20593-034E-01#	34	16.50	17.55	18.10	21.50
20593-036E-01#	36	17.50	18.55	19.10	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



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

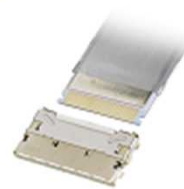
Board to Board



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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