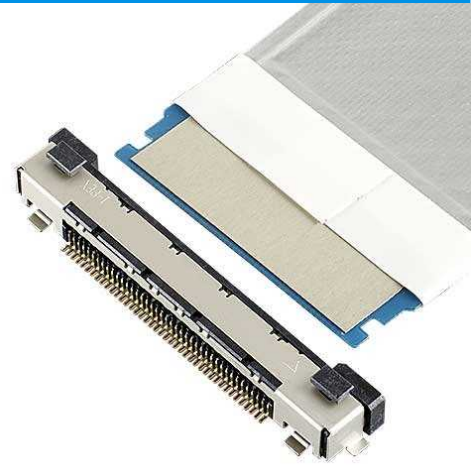


EVAFLEX® 5

自动锁扣，高速数据传输，水平插拔，0.5 mm 间距带屏蔽的FFC/FPC连接器



Product Specifications:

Board Pitch (mm)	0.5	
Wiping Length (mm)	1.75	
Size (mm)	Height	4.75 +/- 0.15
	Width	Formula: 12.35 + (0.5*?)*p
	Depth	5.95 +/- 0.20
Pin counts	Range	21 - 51
	Available	41, 51

Applicable FPC/FFC:

FPC/FFC Type	Shielded FFC
FPC/FFC Contact Point	Lower
FPC/FFC Thickness (mm)	0.33 +/- 0.03

Applicable Standards (Reference Only):

eDP HBR2 (5.4 Gbps) V-By-One US (16 Gbps)

*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

▶ 专为高速传输设计 (16+ Gbps V-by-One® US)

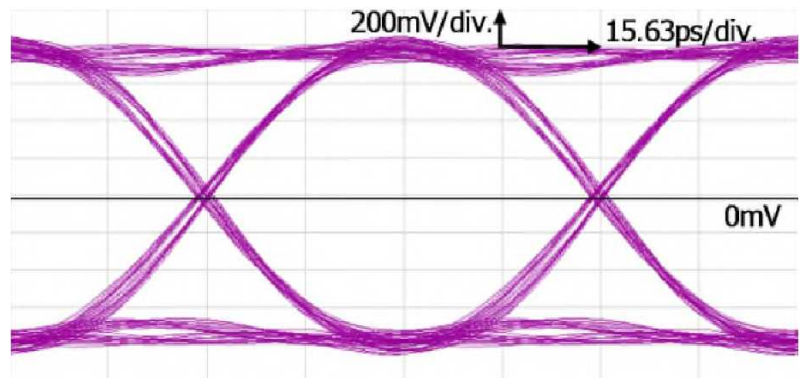
眼图(微分)

比特率: 16 Gbps

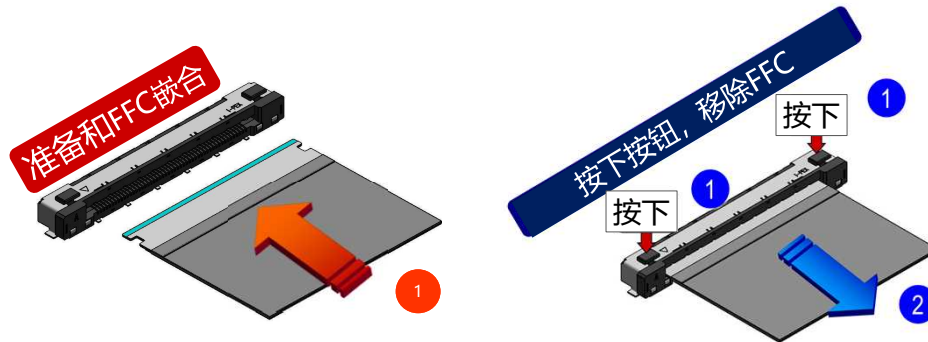
上升时间: 24 ps (10% - 90%)

输入电压: 800 mVp-p

* 更多测试细节，请联系I-PEX。



▶ 自动锁扣的设计便于操作,适用于手动或机器人装配



插入，自锁一步完成，提高生产效率

▶ EVAFLEX® 系列: 更多选择的自动锁扣连接器

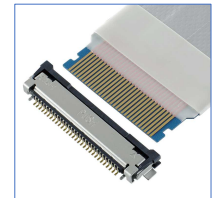
全 EMI 屏蔽和更小的尺寸

	EVAFLEX® 5-HD
高度(mm)	2.00 +/- 02
参考性能	USB 3.1 Gen2 (10+ Gbps)
产品特点	360度全屏蔽，多点接地设计EMI外泄



体积小，耐高温(105°C)

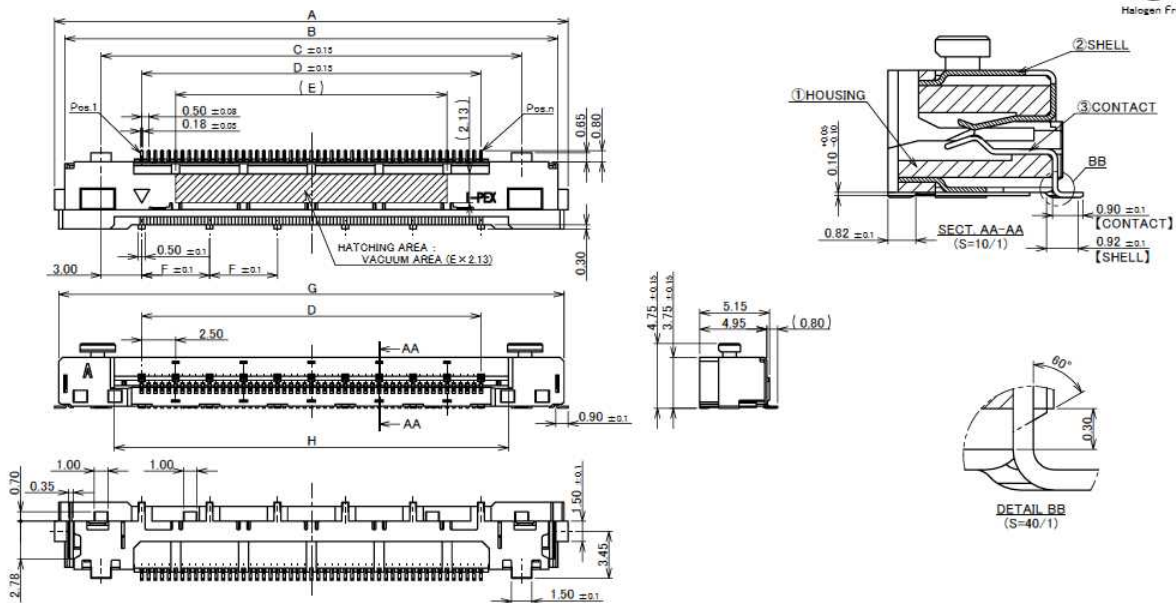
	EVAFLEX® 5-VS
高度(mm)	1.90 +/- 01
深度 (mm)	4.95
参考性能	PCIe Gen 3 (8+ Gbps)
工作温度	~ 105°C



Component Parts Details

Connector Assembly

Recommended P/N		20818-0**E							
PART NO.	Pos.	A	B	C	D	E	F	G	H
20818-041E	41P	32.85	31.35	26.00	20.00	15.00	4.00	32.25	24.06
20818-051E	51P	37.85	36.35	31.00	25.00	20.00	5.00	37.25	29.06

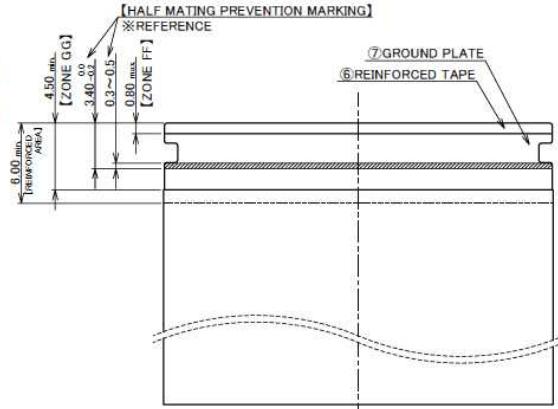
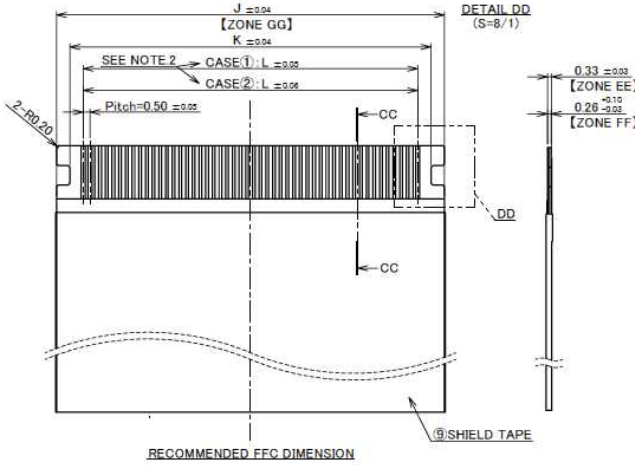
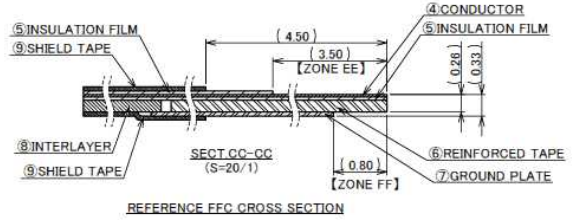
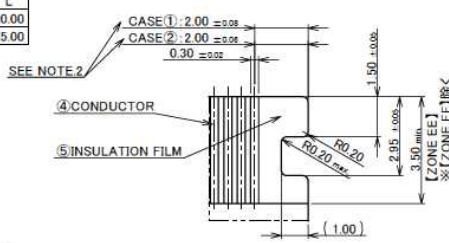


3	CONTACT	PHOSPHOR BRONZE	Au 0.03 μmMIN. OVER Ni 1.00 μmMIN.
2	SHELL	PHOSPHOR BRONZE	Sn 1.00 μmMIN. OVER Ni 1.00 μmMIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO	DISCRIPTION	MATERIAL	FINISH, REMARKS



Connector Assembly

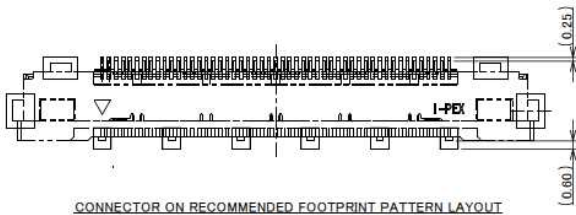
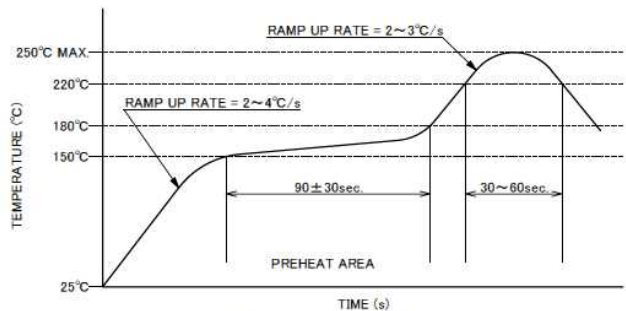
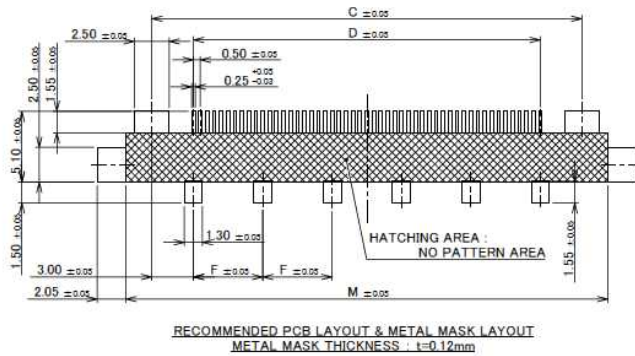
PART NO.	Pos.	J	K	L
20818-041E	41P	24.00	22.00	20.00
20818-051E	51P	29.00	27.00	25.00



- NOTES
1. DIFFERENTIAL IMPEDANCE : 100 ± 10 Ω
 2. MANUFACTURE CASE① or CASE②
 3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

9	SHIELD TAPE	METALIC FILM	
8	INTERLAYER	ARBITRARY	
7	GROUND PLATE	METALIC FILM	POLISH or HALF POLISH Sn PLATING
6	REINFORCED TAPE	ARBITRARY	
5	INSULATION FILM	ARBITRARY	
4	CONDUCTOR	COPPER ALLOY	CONTACT AREA: Au 0.05 μm MIN. OVER Ni 0.5 μm MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

PART NO.	Pos.	C	D	F	M
20818-041E	41P	26.00	20.00	4.00	29.75
20818-051E	51P	31.00	25.00	5.00	34.75



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

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

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	200V AC/DC (PER CONTACT PIN)
RATING AMPERAGE	0.3A AC/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 : \triangle 40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / 30 CYCLES)	41P : 29.2N MAX. / 51P : 30.0N MAX.
UNMATING FORCE (INITIAL / 30 CYCLES)	41P : 4.25N MIN. / 51P : 5.00N MIN.
FFC RETENTION FORCE	41P : 22N MIN. / 51P : 25N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2671
TEST REPORT	TR-20035
PACKING STANDARD	300-980
INSTRUCTION MANUAL	HIM-12001
APPEARANCE CRITERIA No.	QLS-A***

Rev.1

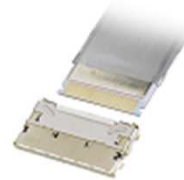
Board to Board



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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