

EVAFLEX® 5

自動鎖扣 · 高速數據傳輸 · 水平插拔, 0.5 mm 間距帶屏蔽的FFC/FPC連接器



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):

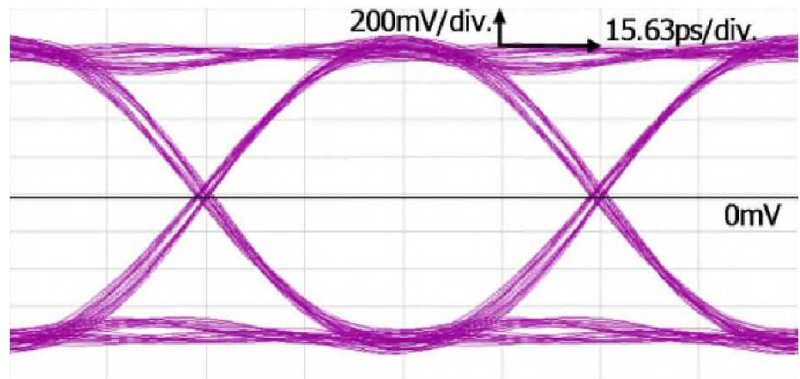
eDP HBR2 (5.4 Gbps) V-By-One US (16 Gbps)

*若有規格外 Pin 數需求, 請與當地負責業務窗口聯繫。

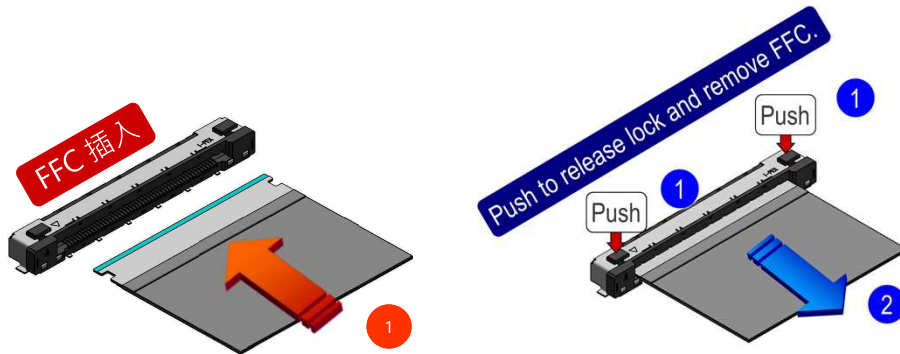
▶ 高信號傳輸設計 (16+ Gbps V-by-One® US)

Eye pattern (Differential)
Bit rate : 16 Gbps
Rise time : 24 ps (10% - 90%)
Input Voltage : 800 mVp-p

*若有針對測試內容更詳細疑問, 請洽當地業務窗口。



▶ 使用者友善操作自動鎖扣介面設計, 手動或自動化的最佳選擇



一步完成自動鎖扣, 增進生產效能

▶ 延伸EVAFLEX® 系列產品自帶鎖扣連接器 還有其他選擇

全罩式屏蔽及更小型連接器

	EVAFLEX® 5-HD
高度 (mm)	2.00 +/- 02
可支持標準	USB 3.1 Gen2 (10+ Gbps)
特殊設計	360度全罩式屏蔽及多點接地設計可抑制EMI外洩



小型化耐高溫(105°C)

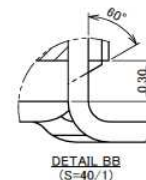
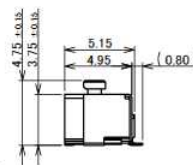
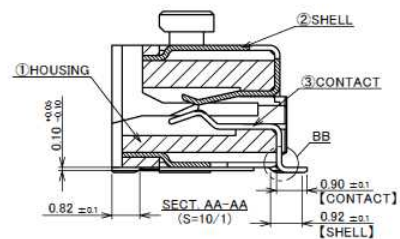
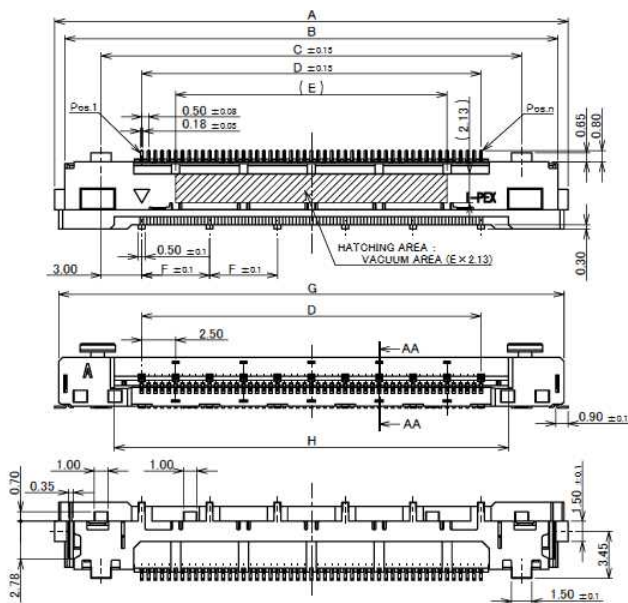
	EVAFLEX® 5-VS
高度 (mm)	1.90 +/- 01
深度 (mm)	4.95
可支持標準	PCIe Gen 3 (8+ Gbps)
操作溫度	~ 105°C



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

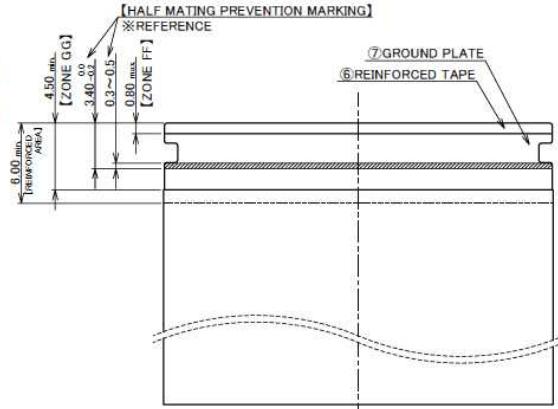
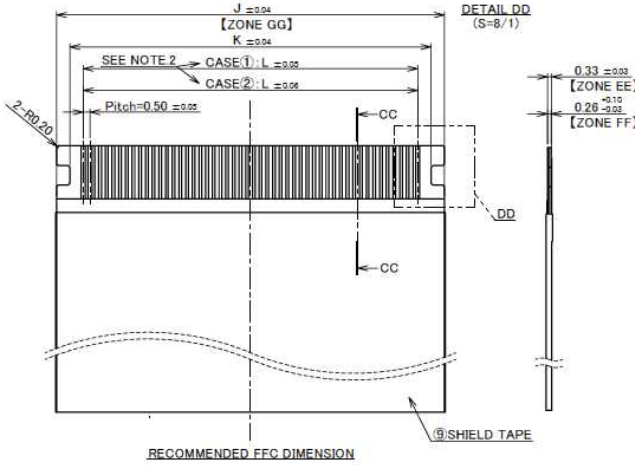
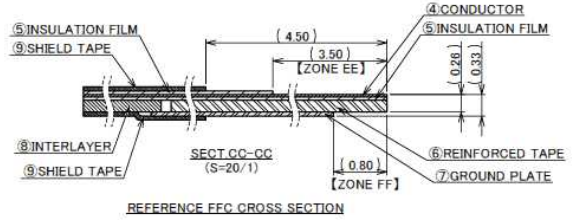
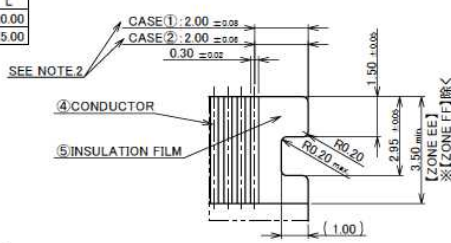


3	CONTACT	PHOSPHOR BRONZE	Au 0.03 μmMIN. OVER Ni 1.00 μmMIN.
2	SHELL	PHOSPHOR BRONZE	Sn 1.00 μmMIN. OVER Ni 1.00 μmMIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO	DISCRIPTION	MATERIAL	FINISH, REMARKS



Connector Assembly

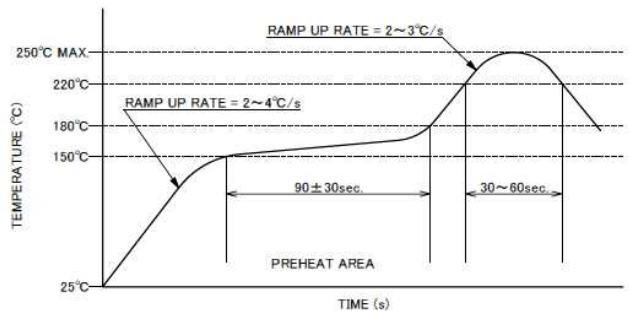
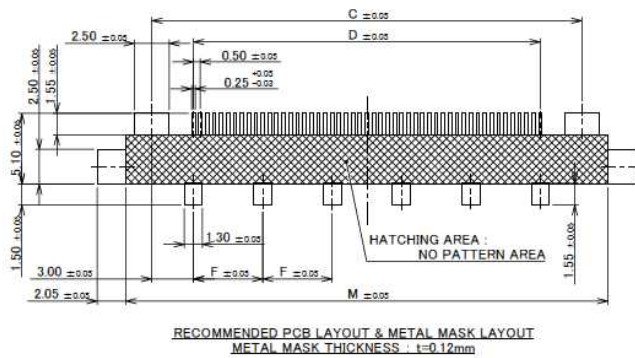
PART NO.	Pos.	J	K	L
20818-041E	41P	24.00	22.00	20.00
20818-051E	51P	29.00	27.00	25.00



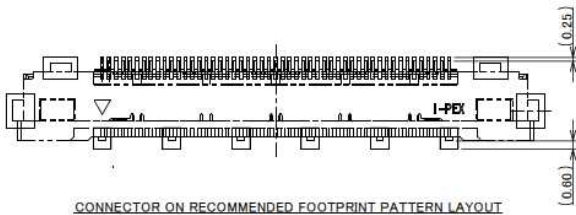
- NOTES
1. DIFFERENTIAL IMPEDANCE : 100 ± 10 Ω
 2. MANUFACTURE CASE ① or CASE ②
 3. SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

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



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



- 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.

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

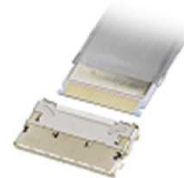
Board to Board



High-Density



Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Effector



Power



High-Power



I/O (Input/Output)



Quick charge



Inquiry



Custom Connectors Available



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