



- ✓ 专为高速传输设计 (16 + Gbps V-by-One® US)
- ✓ 自动锁扣的设计便于操作, 适用于手动或机器人装配
- ✓ EVAFLEX® 系列: 更多选择的自动锁扣连接器

Pin数:

范围	Up to 51
可提供	41, 51

* 如您需要了解未列出或不在范围内的Pin数, 请咨询我们。

Part number	20818
Board pitch (mm)	0.5
Height (mm)	4.75 +/- 0.15
Width formula (mm)	12.35 + (0.5 * P)
Depth (mm)	5.95
Wiping length (mm)	1.75
FFC/FPC insertion depth (mm)	4.3
FFC/FPC type	Shielded / Non-shielded FFC/FPC
FFC/FPC thickness (mm)	0.33 +/- 0.03
Contact point	Signal: Bottom / GND: Top
Compatibility (Footprint pattern)	FI-R
Current rating	0.3A/pin
Supportable standard (Reference only)	eDp / HBR2 (5.4+Gbps) / V-by-one US (16+Gbps)
Operating condition	233 to 358(-40°C to 85°C) 85%RH max.

专为高速传输设计 (16 + Gbps V-by-One® US)

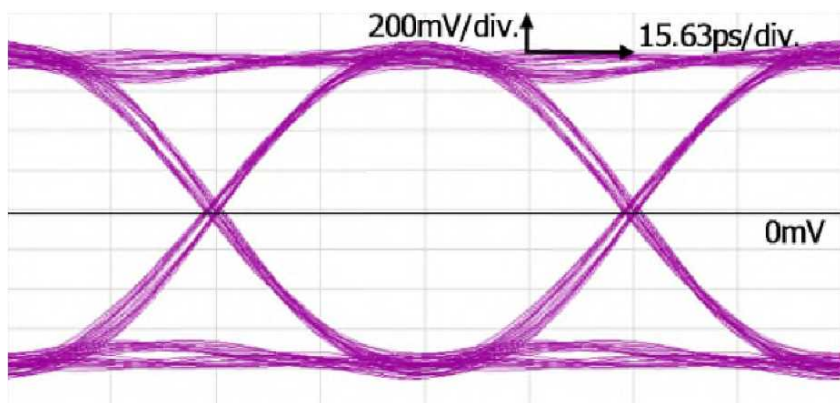
眼图(微分)

比特率: 16Gbps

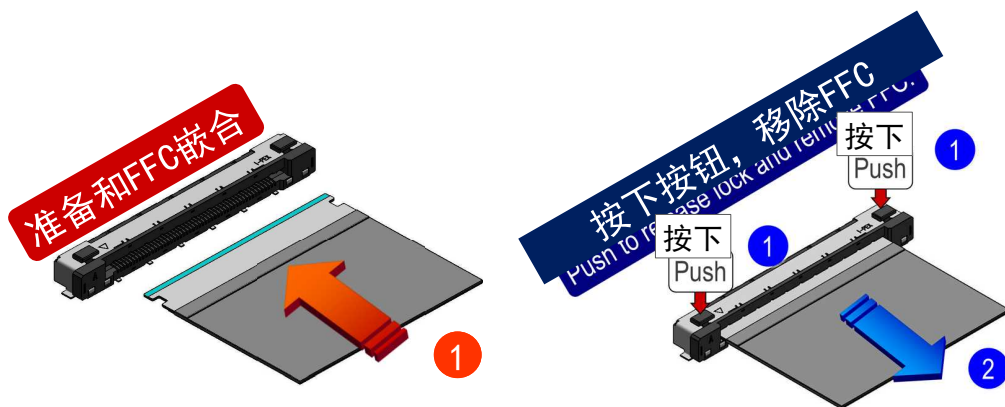
上升时间: 24ps (10% - 90%)

输入电压: 800mVp-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

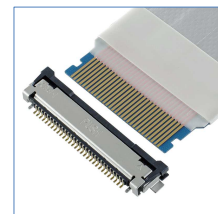
全 EMI 屏蔽和更小的尺寸

	EVAFLEX® 5-HD
高度 (mm)	2.00 +/- 0.02
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 +/- 0.01
深度 (mm)	4.95
参考性能	PCIe Gen 3 (8+ Gbps)
工作温度	~ 105°C

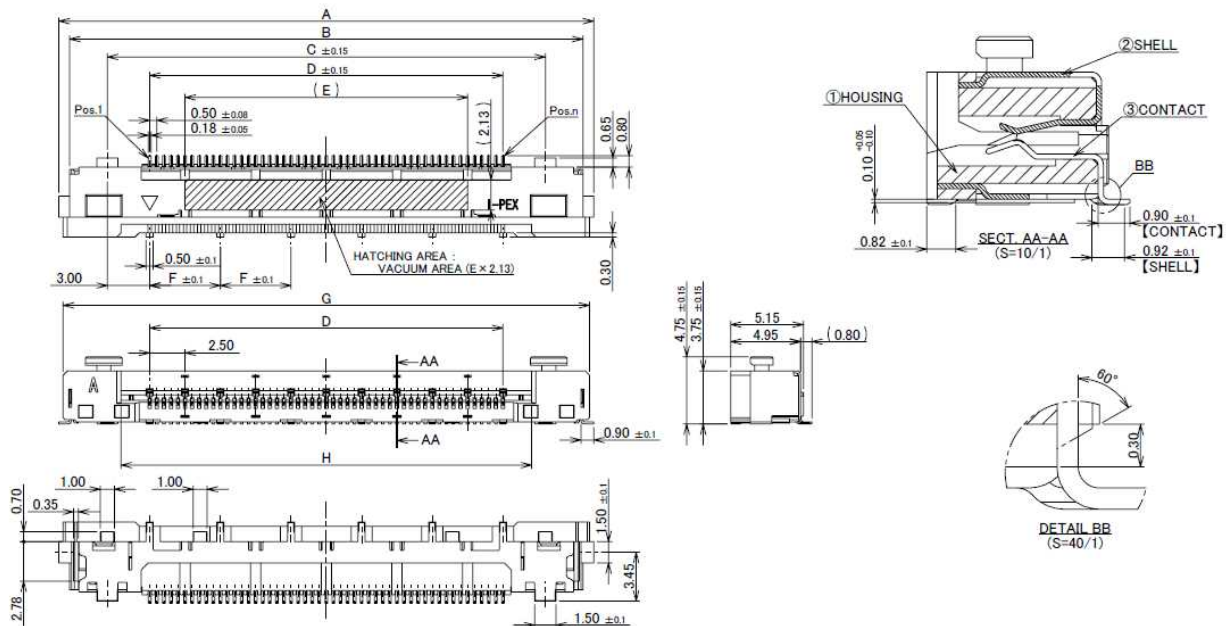


EVAFLEX® 5

Component Parts Detail

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 μ m MIN. OVER Ni 1.00 μ m MIN.
2	SHELL	PHOSPHOR BRONZE	Sn 1.00 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

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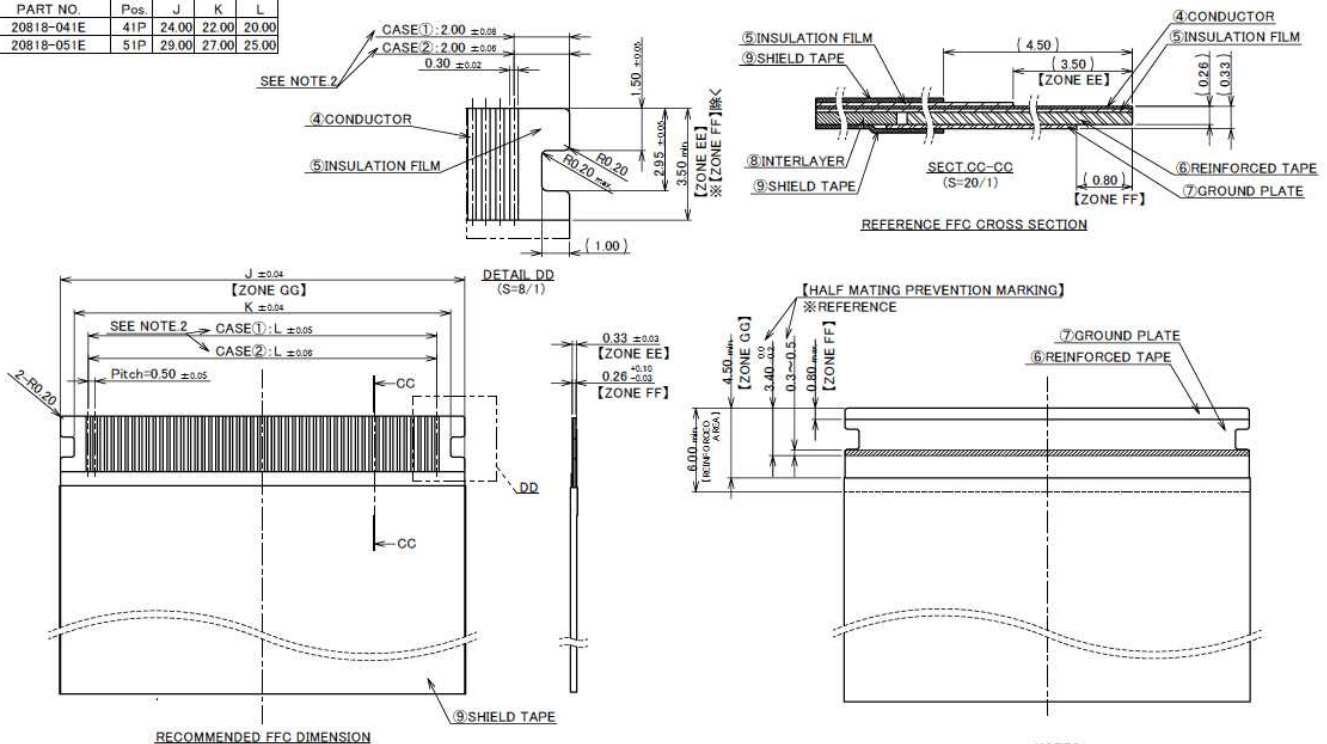
Connector Assembly :

ITEMS	SPECIFICATION
RATING VOLTAGE	200V AC/DC (PER A CONTACT)
RATING AMPERAGE	0.3A AC/DC (PER A CONTACT)
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***

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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



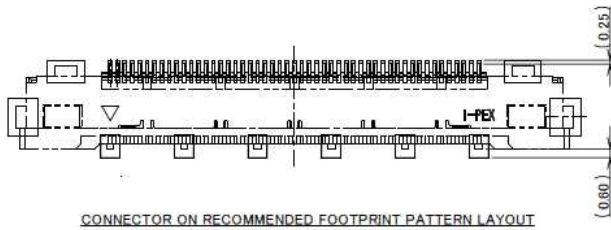
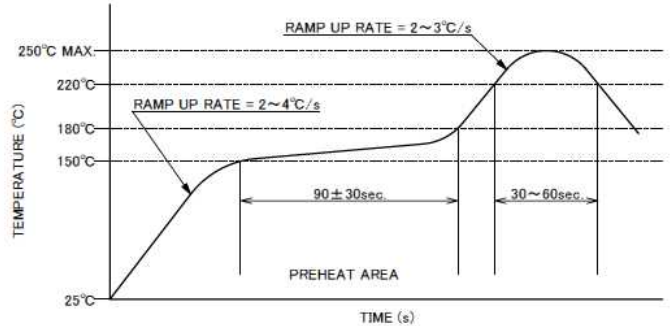
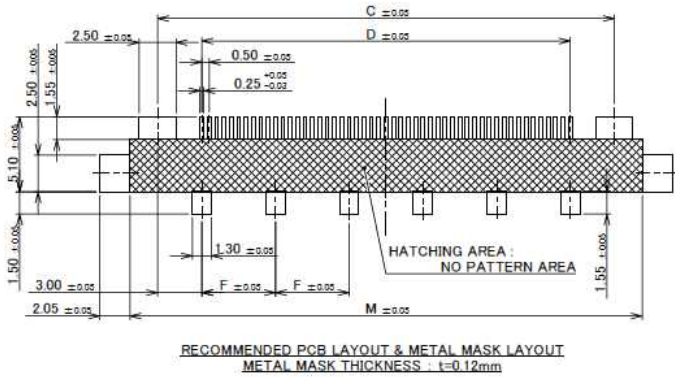
NOTES
 1 DIFFERENTIAL IMPEDANCE : 100 ± 10Ω
 2 MANUFACTURE CASE① or CASE②

NO	DISCRPTION	MATERIAL	FINISH . REMARKS
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.

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Connector Assembly :

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.

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

Rev.0

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