FPC/FFC Connector

MINIFLEX[®] 3-BFN L-LK-HD

Mechanical lock, robust design with hold-down feature, long actuator, low profile (Height = 0.9 mm) 0.3 mm pitch, horizontal, backflip

Product Specifications:			Applicable FPC/FFC:	
Board Pitch (mm)		0.3	FPC/FFC Contact Pitch	0.3
Wiping Length (mm)		Contact A:0.9	FPC/FFC Contact Point	Top and Bottom
		Contact B:0.45	FPC/FFC Thickness (mm)	0.2 +/- 0.03
Size (mm)	Height	0.90 +/- 0.10		
	Width	Formula: Even no pos: 3.0+(0.3*?p).		
		Odd no pos: 2.7+(0.3*?p)		
	Depth	Open:2.55		
		Close:3.5		
Pin counts	Range	11-57 (odd)		
	Available	11, 40, 45		

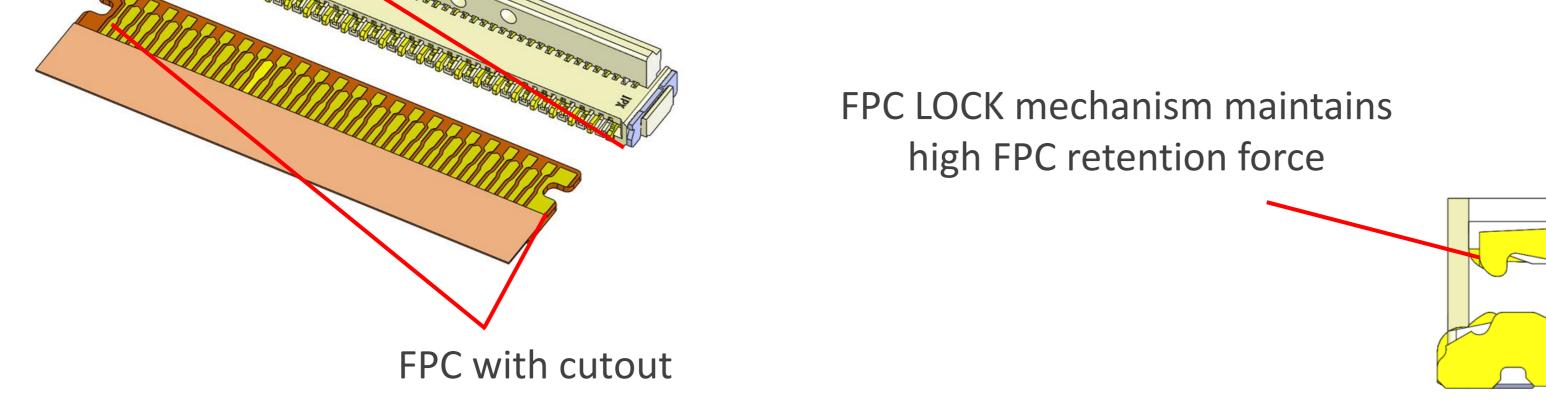
* Please inquire for pin counts not listed or outside of the pin count range.

High FPC retention force with additional mechanical lock

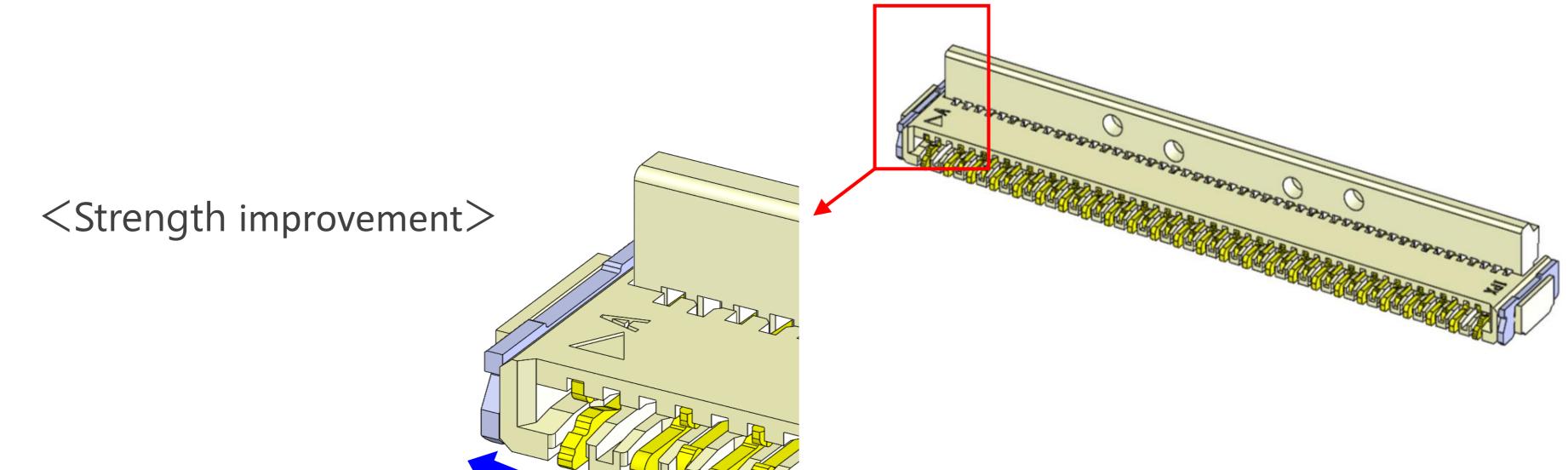
FPC retention force comparison (45 p)

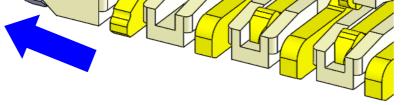
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MINIFLEX [®] 3-BFN L-LK-HD	MINIFLEX [®] 3-BFN Long
20.710 N	15.535 N



Hold down feature improves strength of side wall

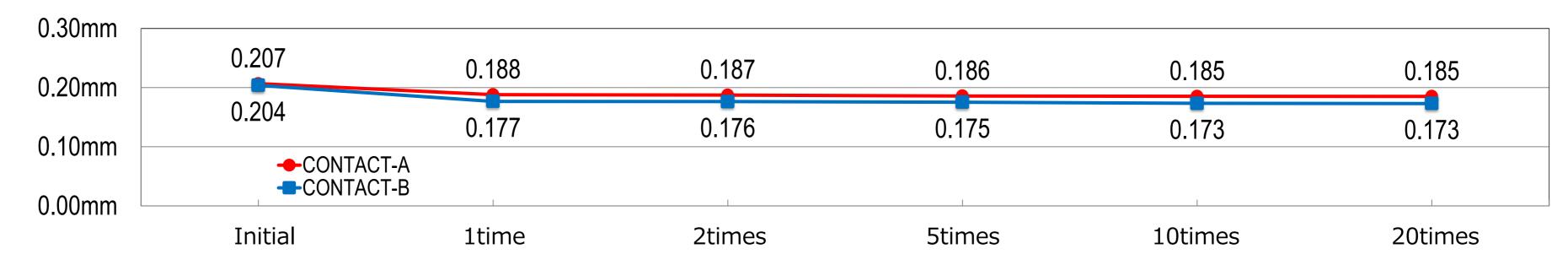




Usability for closing actuator without FPC

The connector will still function even if the actuator is accidentally closed without the FPC being inserted after the SMT process

Connector will still function reliably (Contact gap graph MINIFLEX[®] 3-BFN L-HD 51 pins before and after operating actuator without FPC inserted)



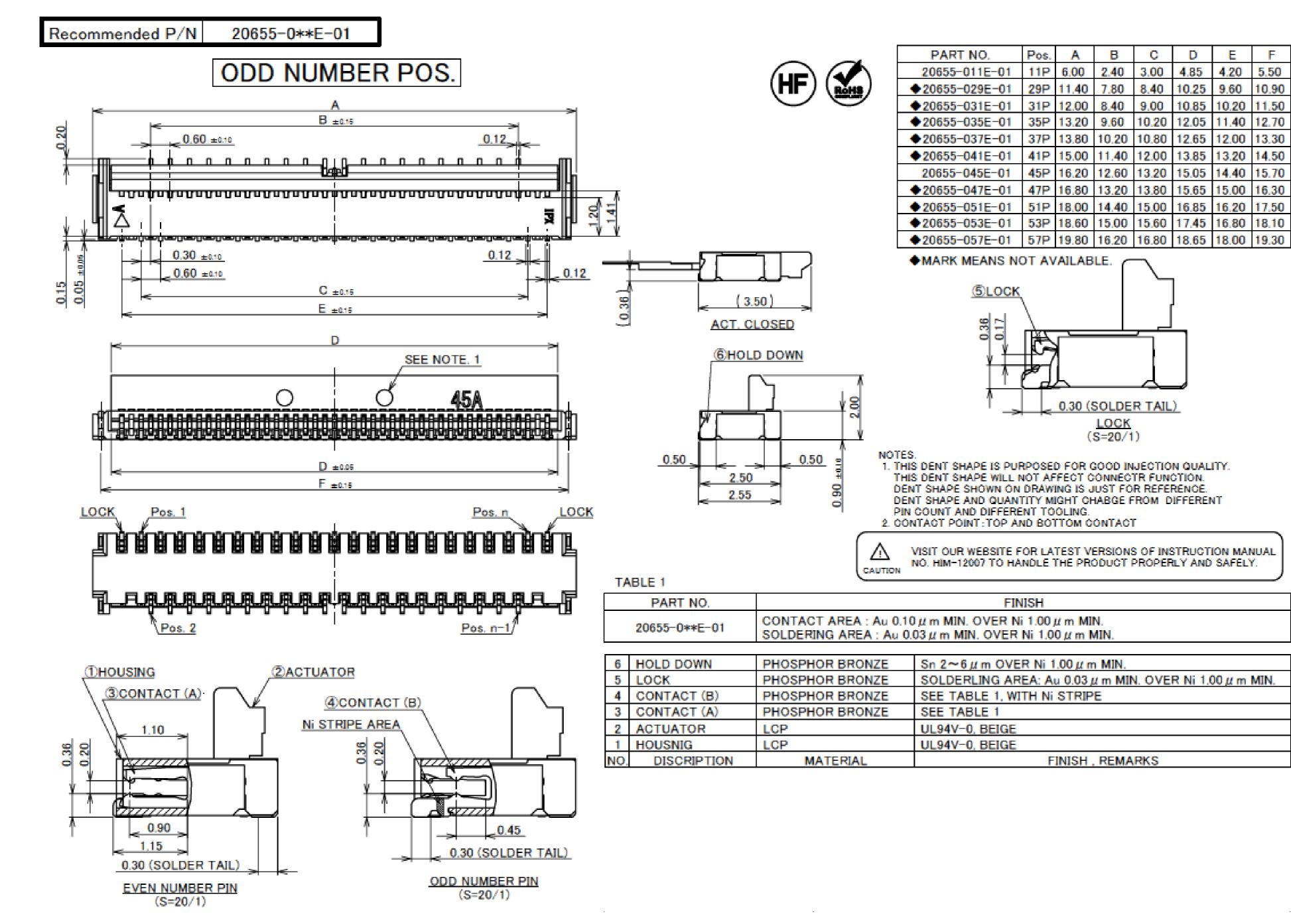
Insertion force of connector goes up

I-PEX

Retention force of connector does not change greatly

Component Parts Details

Connector Assembly

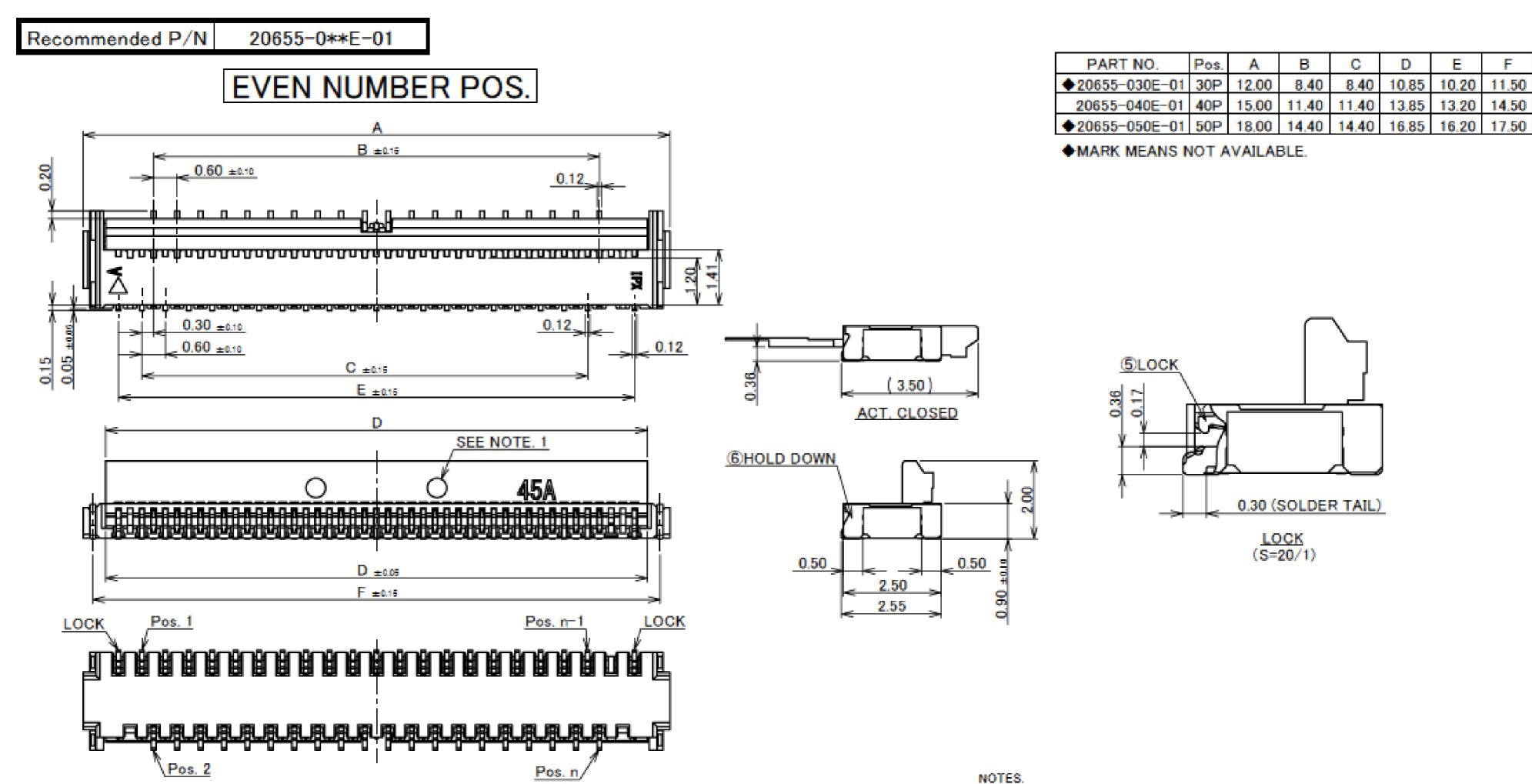


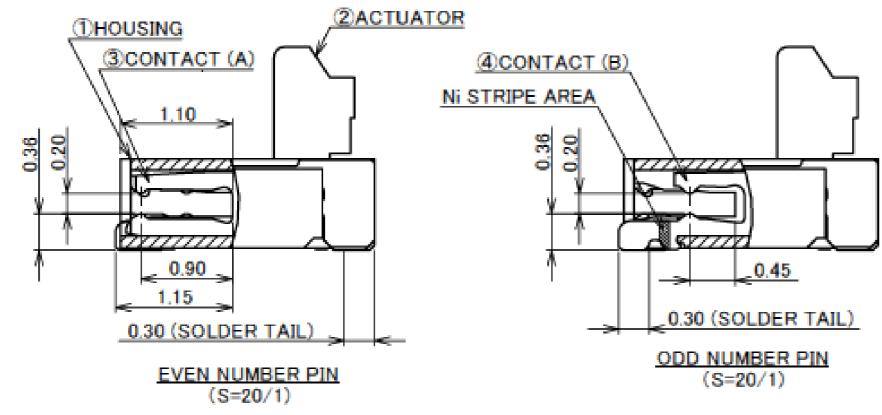
I-PEX

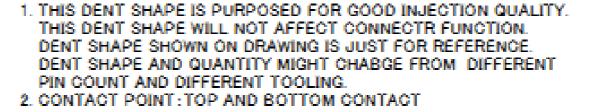
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

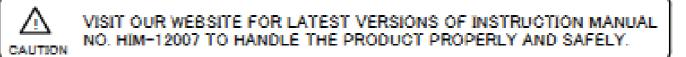
Rev.9

Connector Assembly



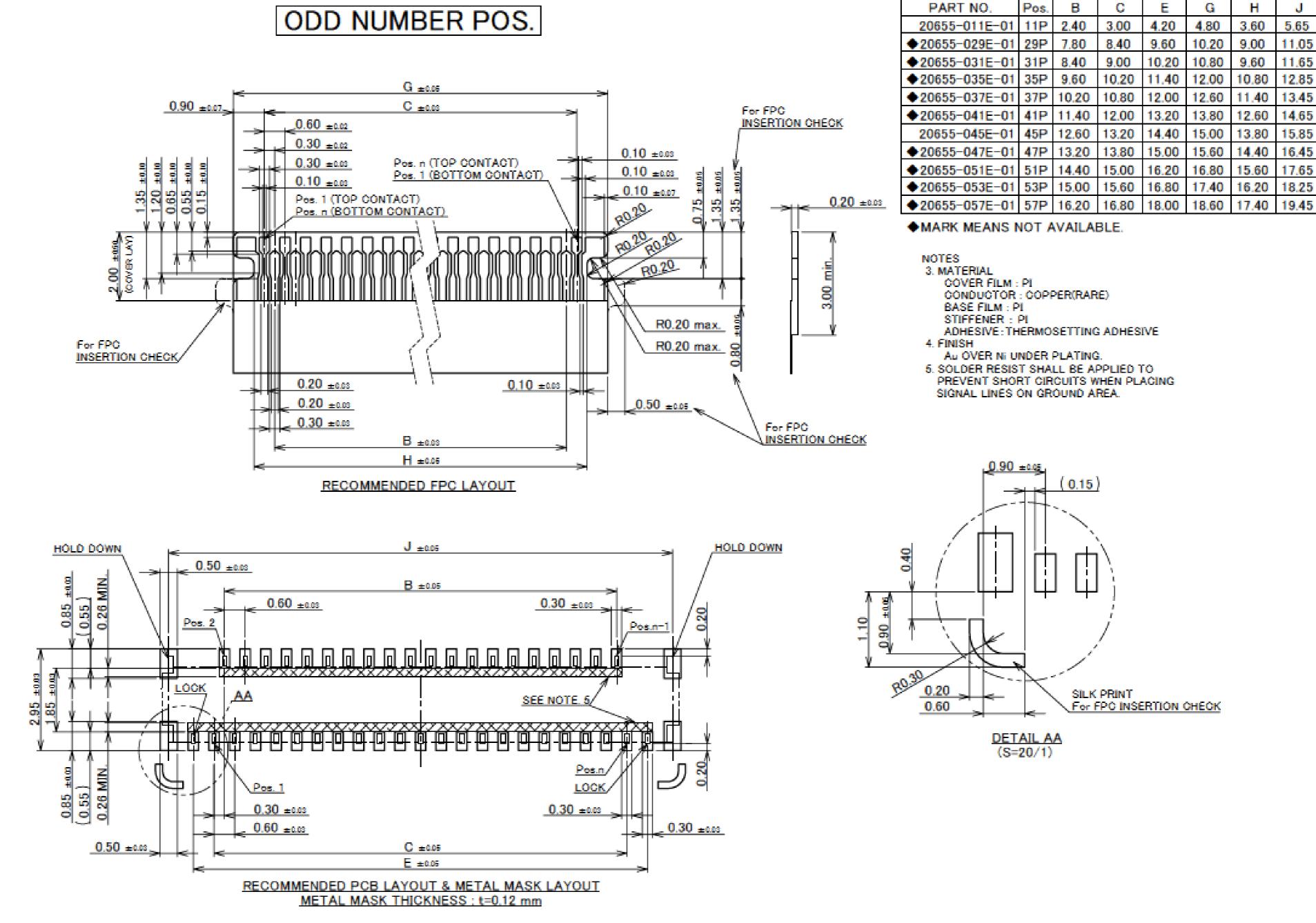






Rev.9

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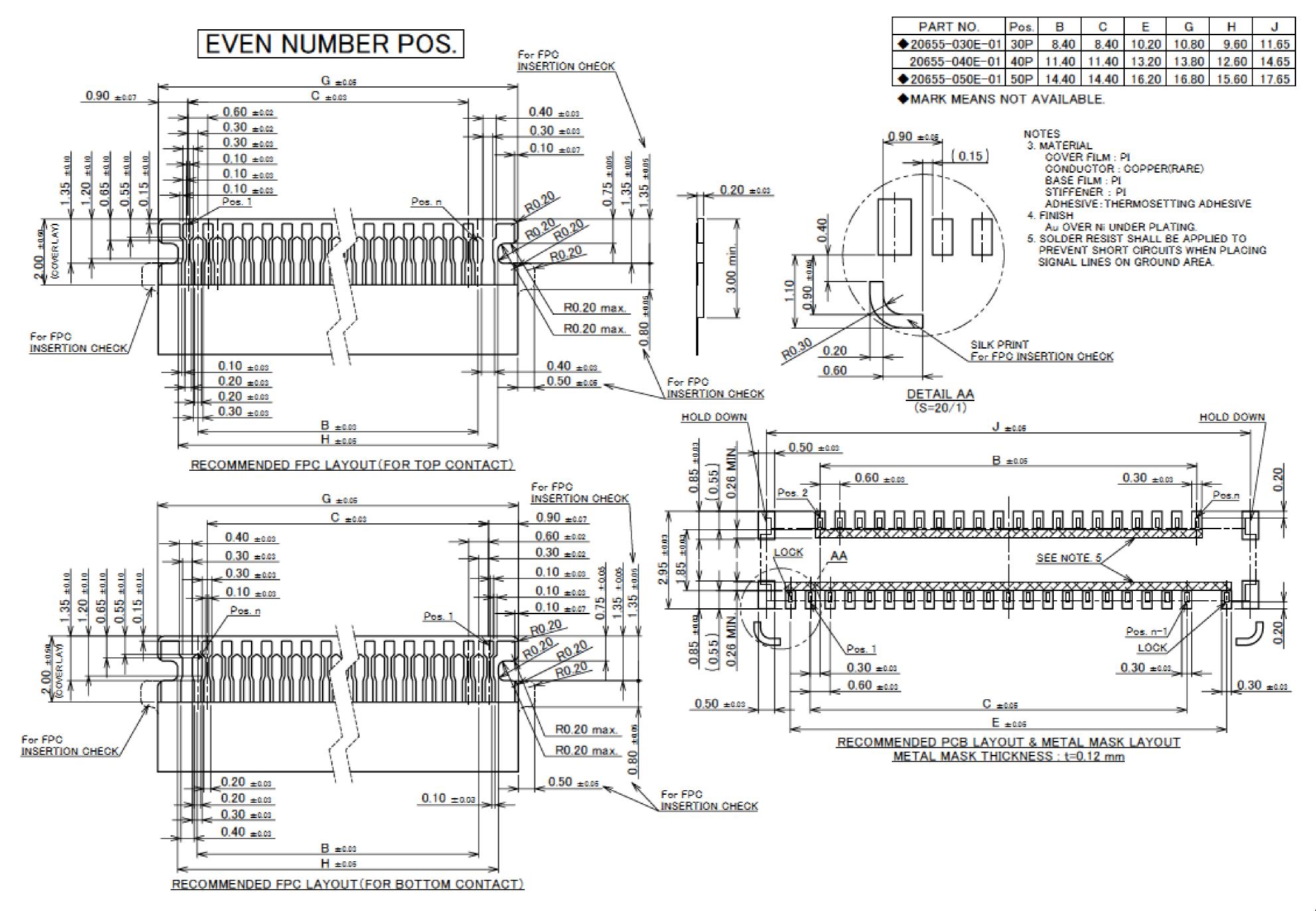


I-PEX

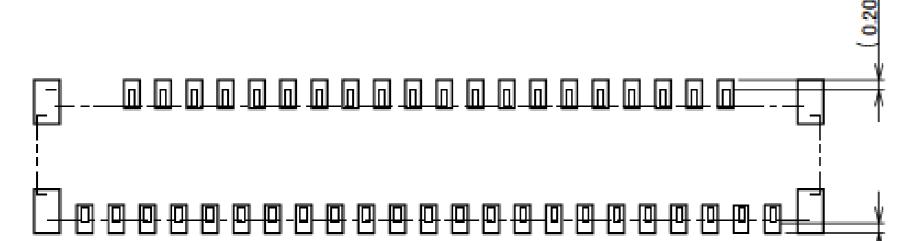
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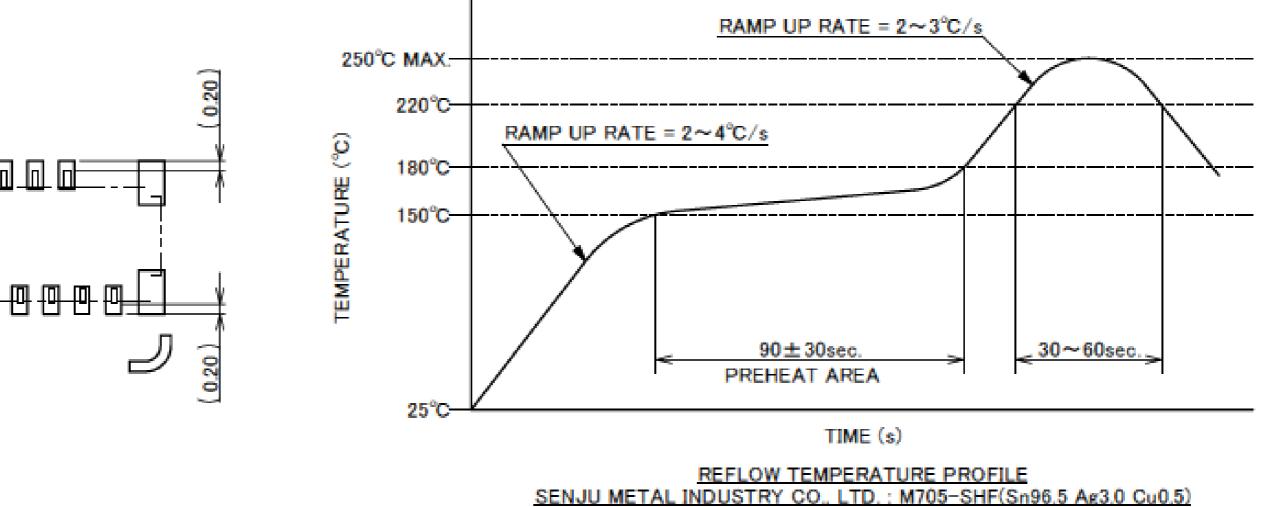
Rev.9

Connector Assembly









CONNECTOR ON RECOMMENDED PCB LAYOUT

I-PEX

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Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

Rev.9

Connector Assembly

ITEMS	SPECIFICATION
RATING VOLTAGE	50V AC/DC (PER CONTACT)
RATING AMPERAGE	0.3A DC (PER CONTACT)
OPERATING TEMPERATURE	233~358K(-40°C~85°C)
OPERATING HUMIDITY	20~80%RH (NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : ⊿40mohm MAX.
INSULATION RESISTANCE	100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
ACTUATOR LOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL / 20 CYCLES 0.21N (21gf) × (n + 2) MAX.
ACTUATOR UNLOCKING FORCE (INITIAL / 20TH CYCLES)	INITIAL / 20 CYCLES 0.014N (1.4gf) × (n + 2) MIN.
FPC RETENTION FORCE (INITIAL / AFTER TEST)	INITIAL: 0.13N (13gf) × n + 1.0N MIN. / AFTER TEST: 0.10N (10gf) × n + 1.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2077
TEST REPORT	TR-15027
PACKING STANDARD	PST-15018
INSTRUCTION MANUAL	HIM-12007
APPEARANCE CRITERIA No.	QLS-A***

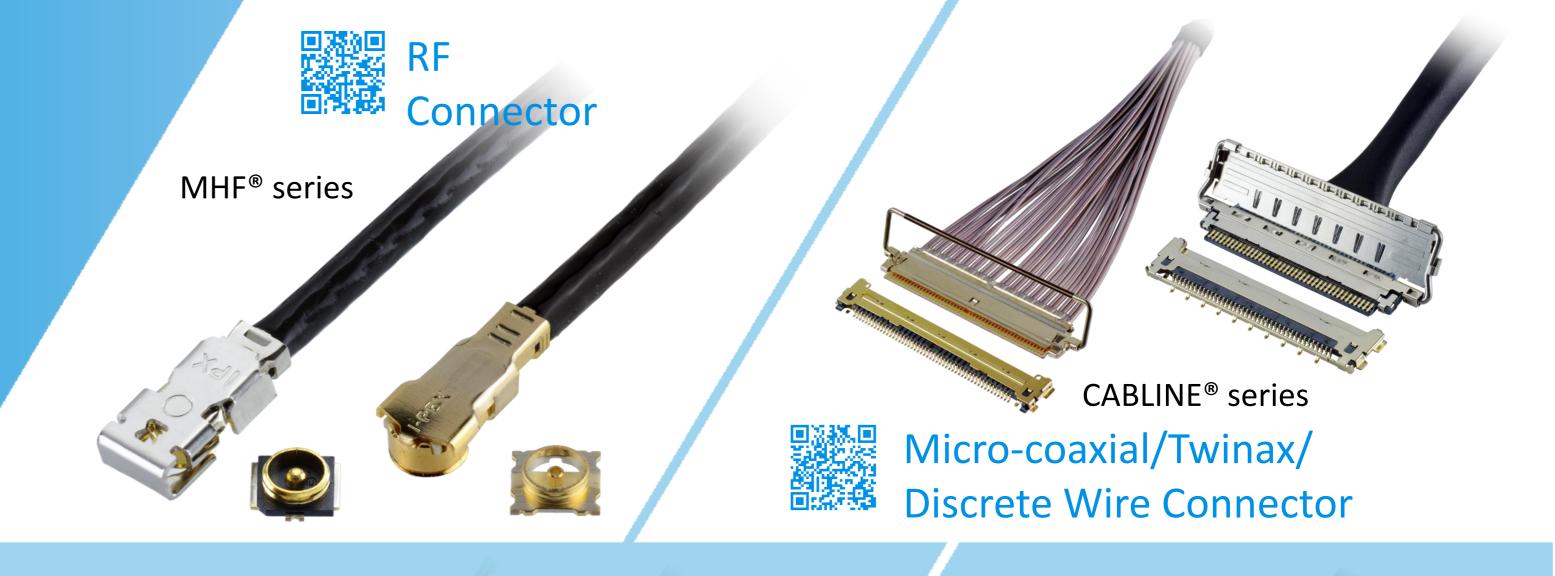
※ "n" IS THE NUMBER OF PIN

Rev.9

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Custom Connectors Available





LIGHTPASS[®] series



Board-to-Board Connector



Power Connector/ 道深段 Terminal



MINIFLEX[®] series

NOVASTACK[®] series

EVAFLEX[®] series



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