Auto-Locking FPC/FFC Connector

EVAFLEX® 5-SE-G VT

One-handed auto-locking feature, high temperature (125°C), high-speed, vertical mate, 0.5 mm pitch shielded FFC/FPC connector

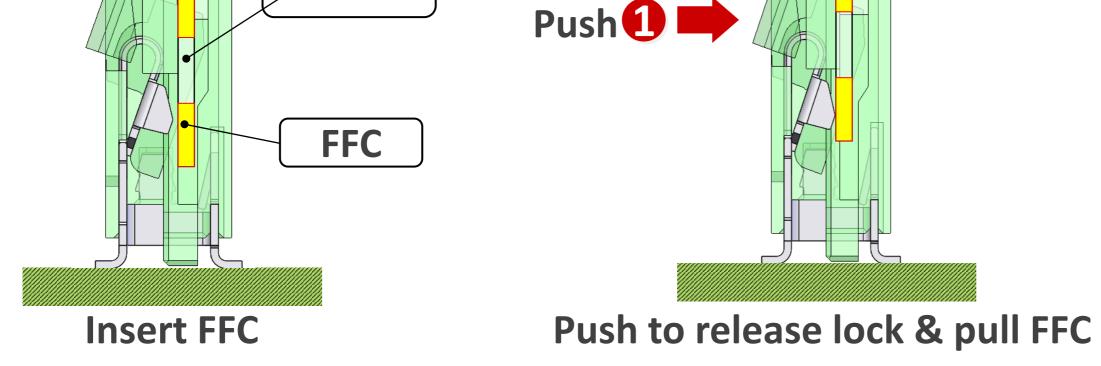
Product Specifications:			Applicable FPC/FFC:		
Board Pitch (mm) Wiping Length (mm)		0.5	FPC/FFC Type	Shielded FFC, Non-shielded FFC/FPC	
		1.2	грс/ггс туре		
	Height6.6 +/- 0.30FPC/FFC Conta		FPC/FFC Contact Point	Signal contact tail side	
Size (mm)	Width	Formula: 8.00 + (0.5*?p)	FPC/FFC Thickness (mm)	0.30 +/- 0.03	
	Depth	3.90 +/- 0.20	Applicable Standards (Reference Only):		
Pin counts	Range	20 - 60	eDP (2.7 Gbps) V-By-One HS 1.4 (4 Gbps)		
	Available	20, 30, 40, 50, 60	USCAR II Vibration & Shock V1		

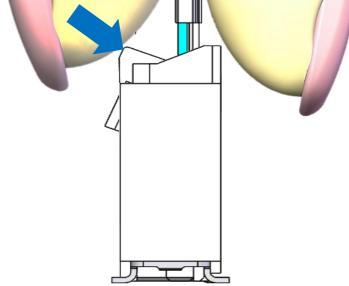


One-handed operational auto-lock design, ideal for hand or robotic assembly



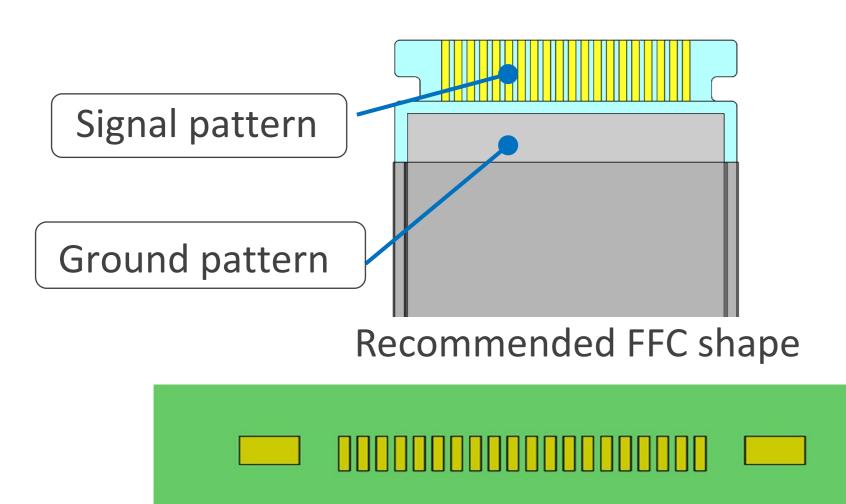




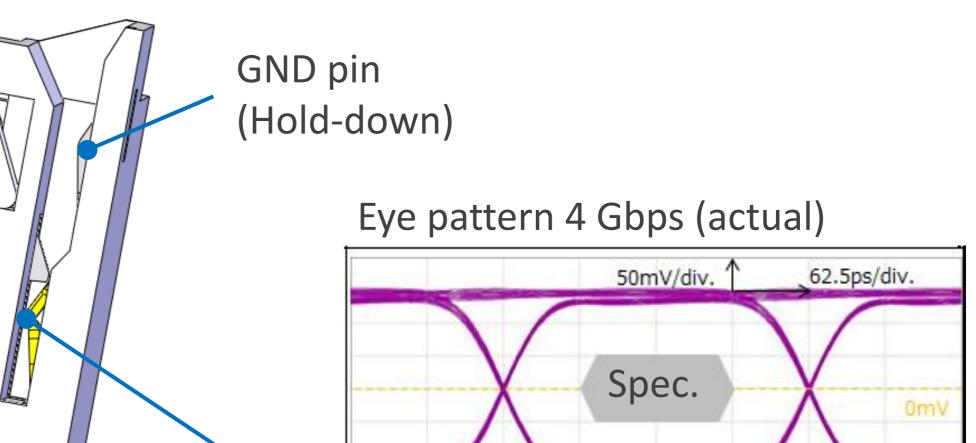


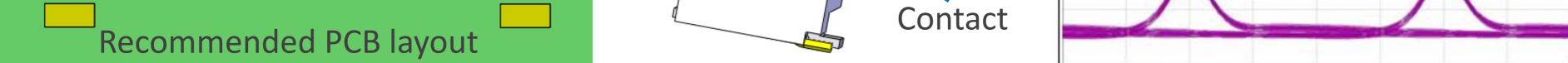
Release lock and pull FFC at same time for one-hand operation.

Designed for high-speed transmission with grounding contacts (4+ Gbps V-By-One[®] HS)

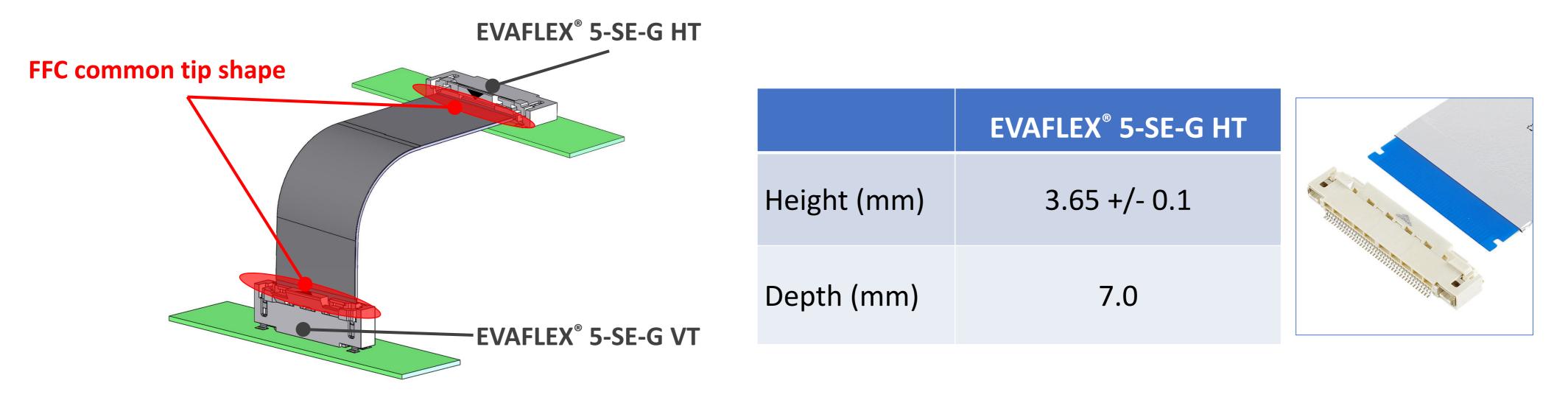


Extended hold down with GND pin for GND connection Target speed : up to 4+ Gbps (V-By-One[®] HS)





Horizontal mate type using same FFC option as EVAFLEX® 5-SE-G HT



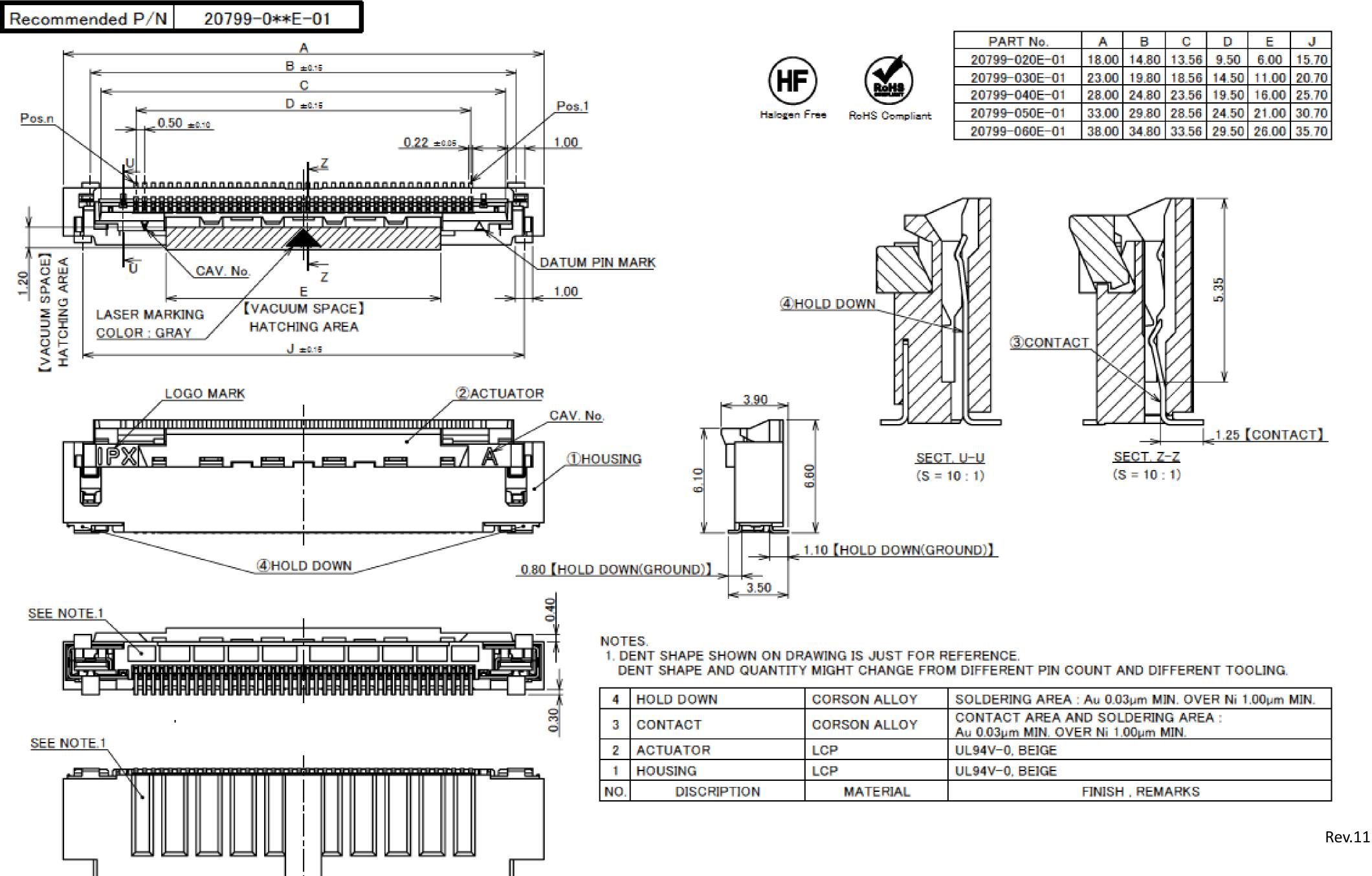
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>



Component Parts Details

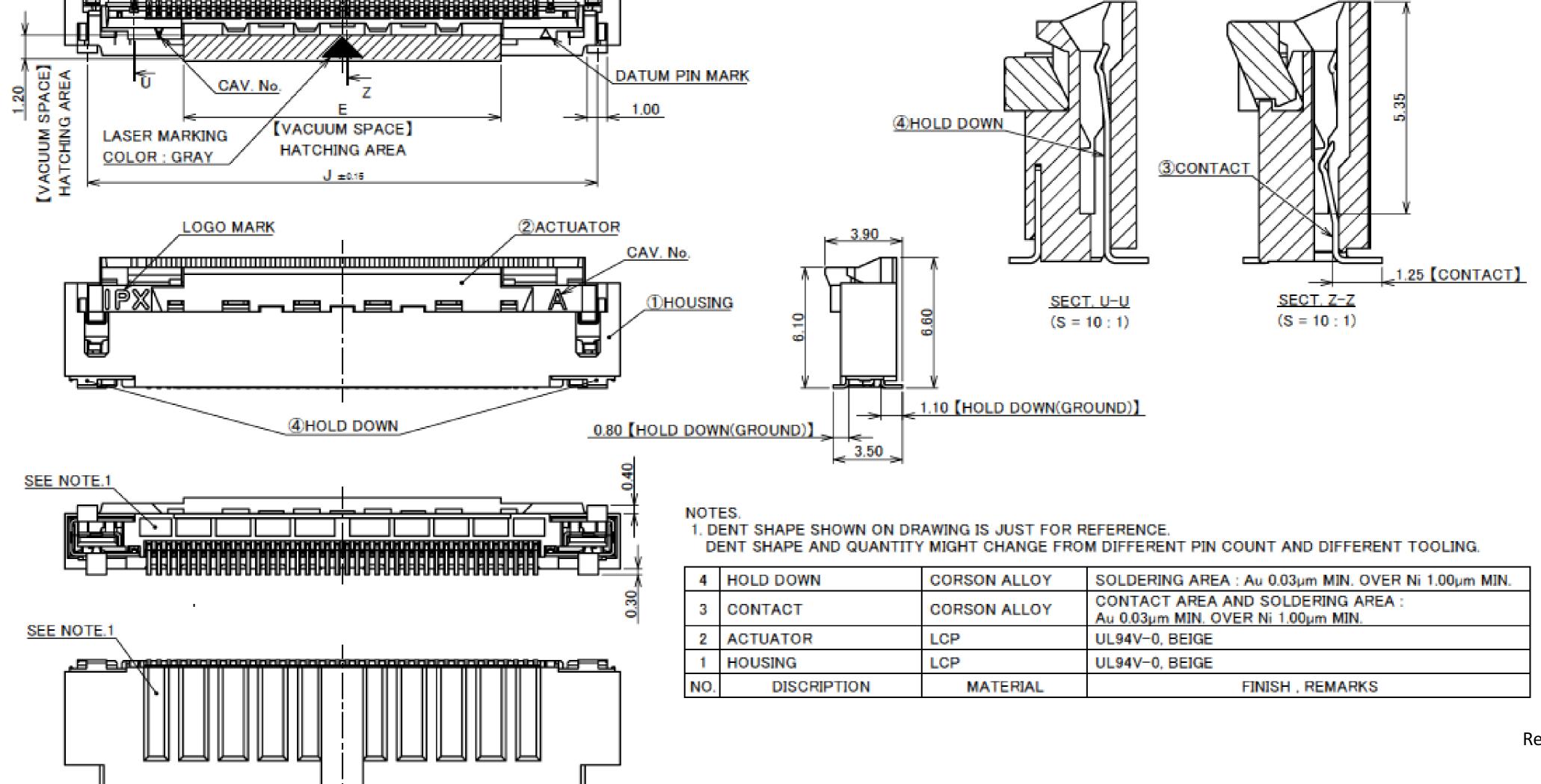
Connector Assembly

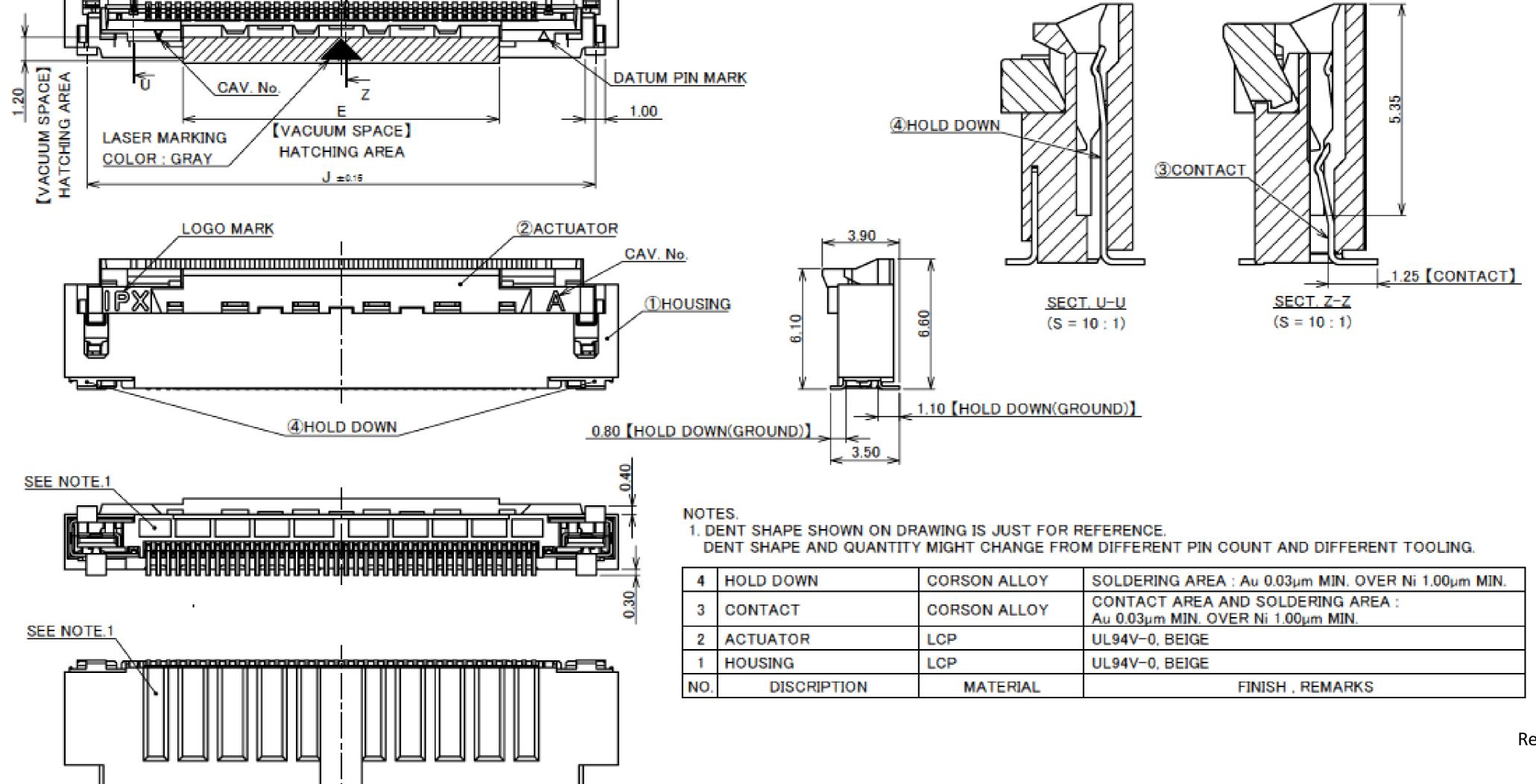
I-PEX





PART No.	Α	в	С	D	Е	J
20799-020E-01	18.00	14.80	13.56	9.50	6.00	15.70
20799-030E-01	23.00	19.80	18.56	14.50	11.00	20.70
20799-040E-01	28.00	24.80	23.56	19.50	16.00	25.70
20799-050E-01	33.00	29.80	28.56	24.50	21.00	30.70
20799-060E-01	38.00	34.80	33.56	29.50	26.00	35.70

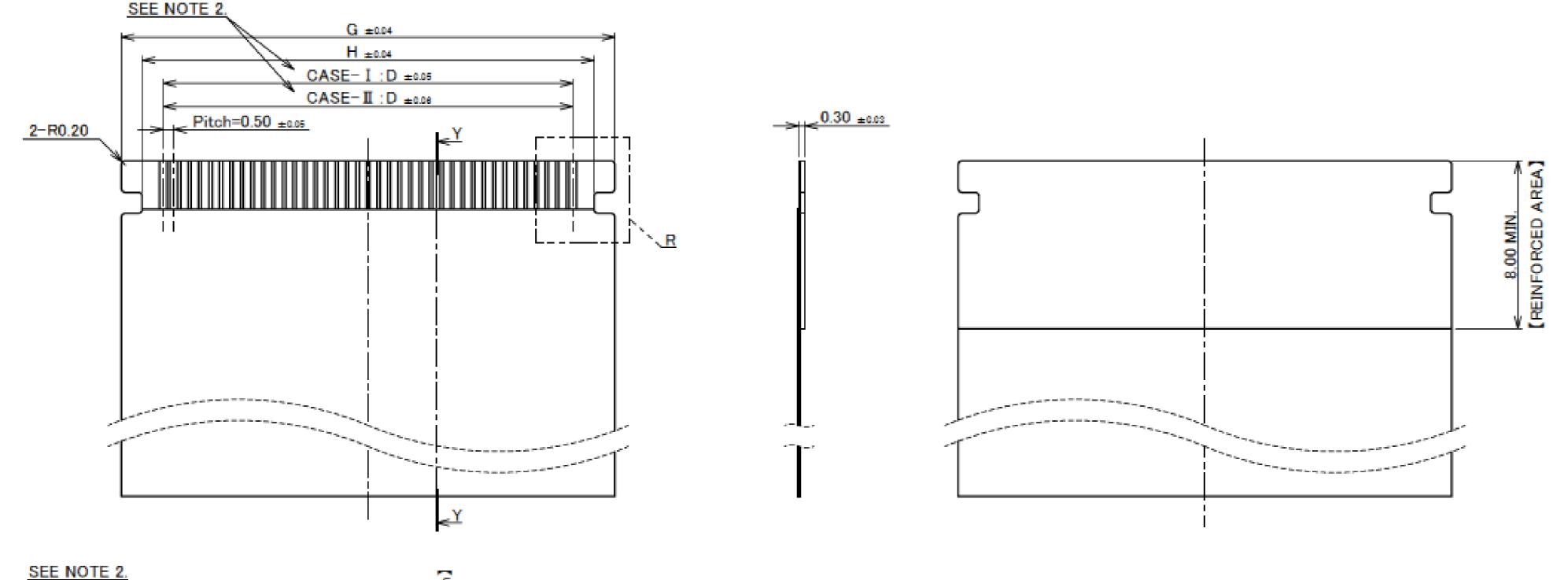




Connector Assembly

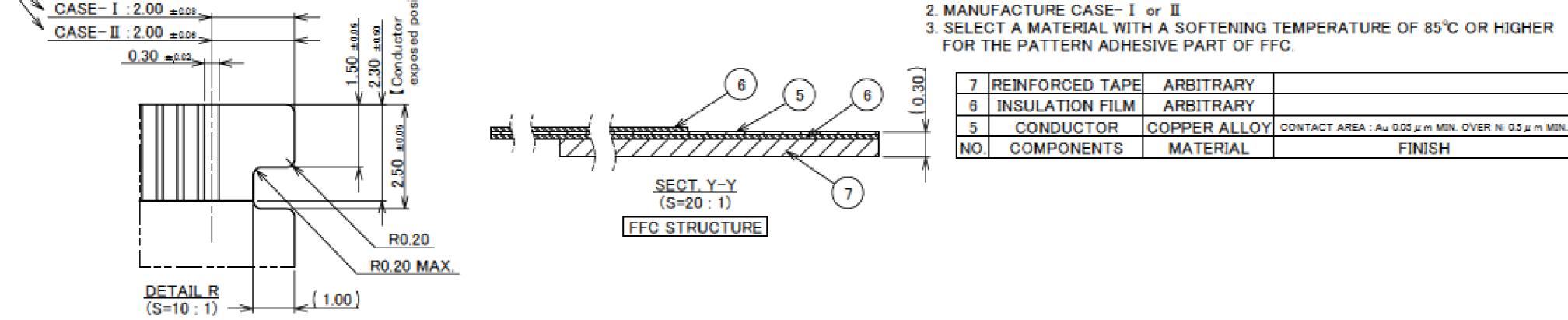
PART No.	D	G	Н
20799-020E-01	9.50	13.50	11.50
20799-030E-01	14.50	18.50	16.50
20799-040E-01	19.50	23.50	21.50
20799-050E-01	24.50	28.50	26.50
20799-060E-01	29.50	33.50	31.50

RECOMMENDED FFC LAYOUT



SEE NOTE 2.

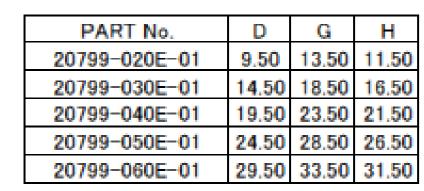
NOTES.

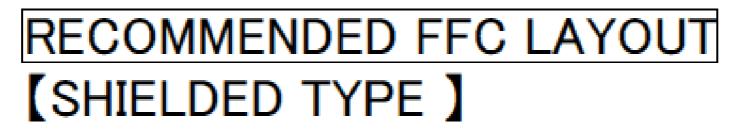


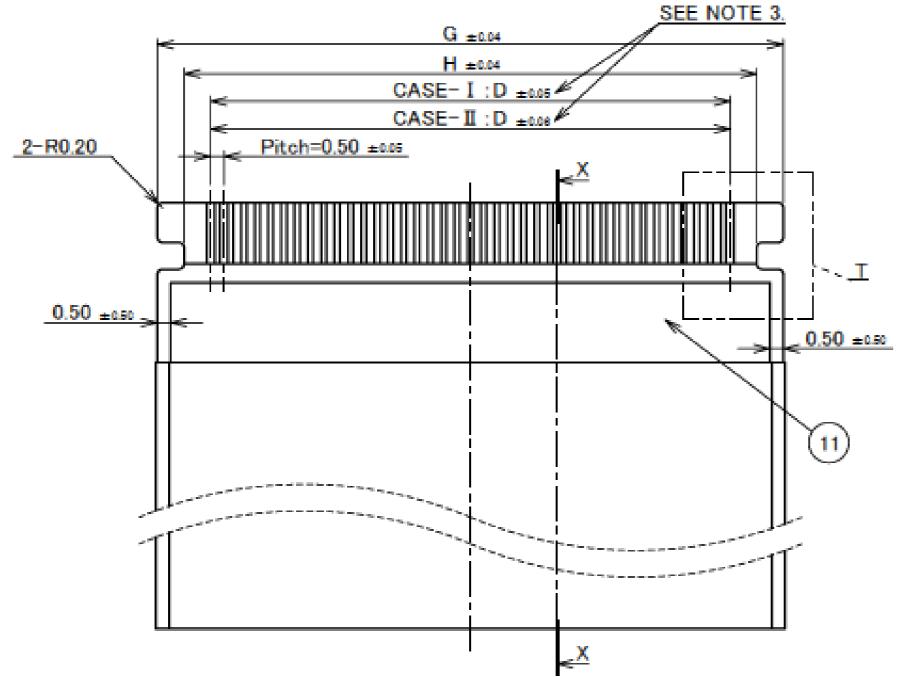
_0.30 ±0.00

. (0.35)

0.50 ±0.05

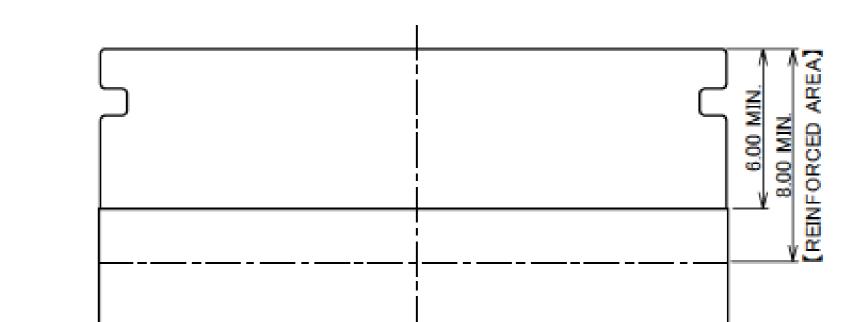


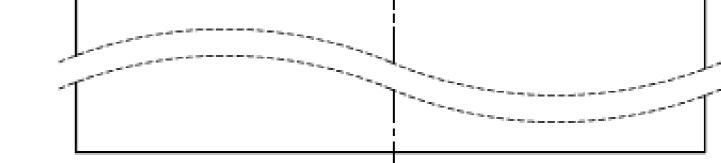




SEE NOTE.3

See.



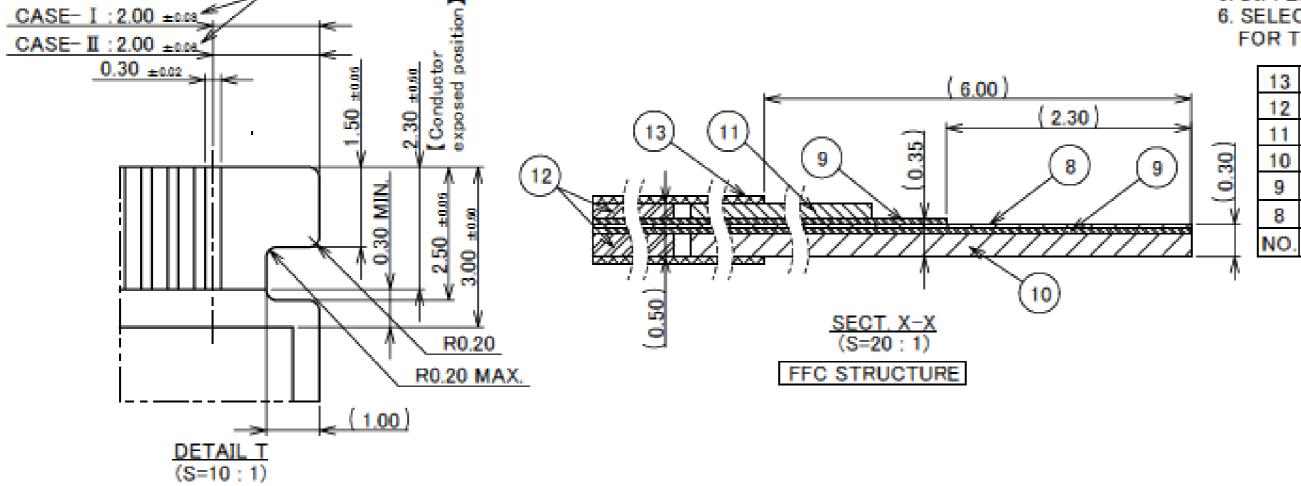


NOTES.

4. MANUFACTURE CASE- I or II

DIFFERENTIAL IMPEDANCE : 100±10 Q

 SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.



13	SHIELD TAPE	METALLIC FILM	
12	INTERLAYER	ARBITRARY	
11	GROUND PLATE	METALLIC FILM	POLISH or HALF POLISH Sn PLATING
10	REINFORCED TAPE	ARBITRARY	
9	INSULATION FILM	ARBITRARY	
8	CONDUCTOR	COPPER ALLOY	CONTACT AREA : Au 0.05 μ m MIN. OVER Ni 0.5 μ m MIN.
NO.	COMPONENTS	MATERIAL	FINISH

Rev.11

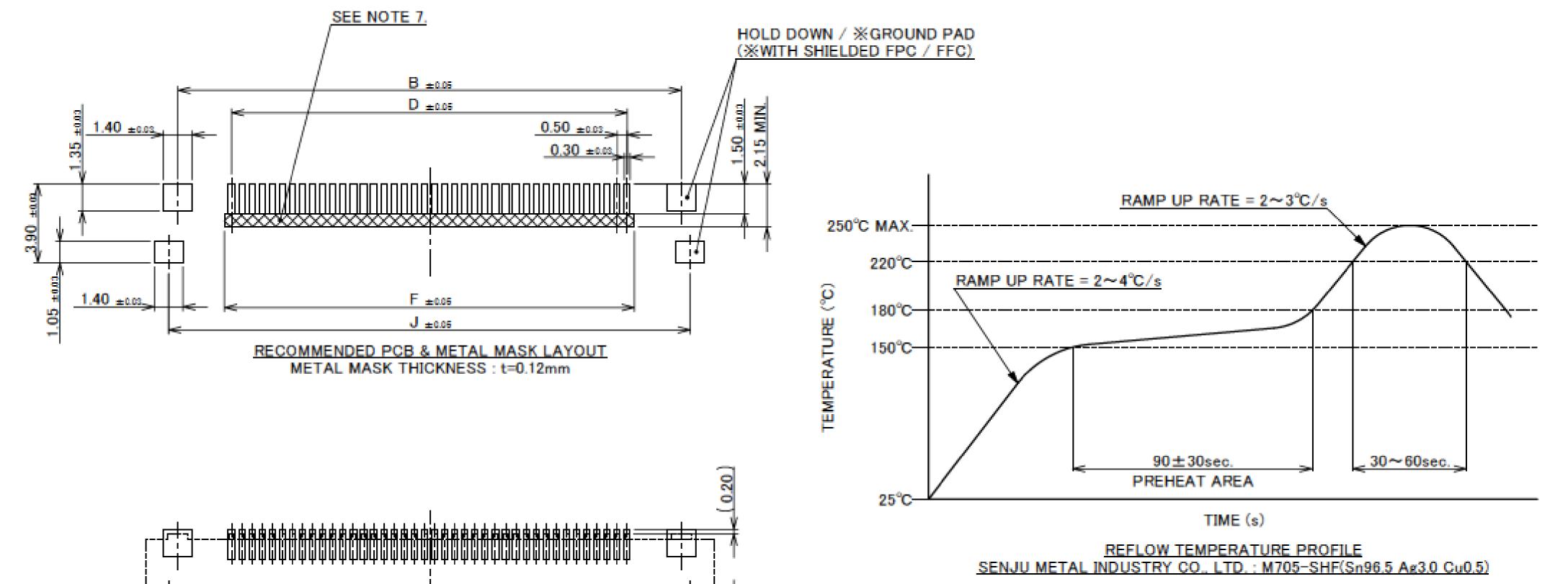
Rev.11

I-PEX

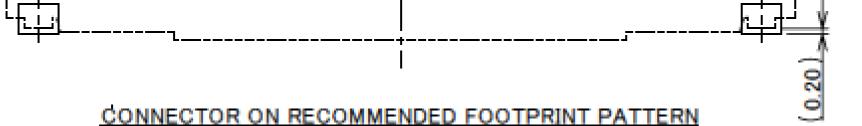
Contact your sales representative for more detailed information. www.i-pex.com

Connector Assembly

PART No.	В	D	F	J
20799-020E-01	14.80	9.50	10.20	15.70
20799-030E-01	19.80	14.50	15.20	20.70
20799-040E-01	24.80	19.50	20.20	25.70
20799-050E-01	29.80	24.50	25.20	30.70
20799-060E-01	34.80	29.50	30.20	35.70



ITEMS	SPECIFICATION			
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)			
RATING AMPERAGE	0.35A AC/DC (PER CONTACT PIN) AVAILABLE FOR ALL CONTACTS 0.5A AC/DC (PER CONTACT PIN) AVAILABLE UP TO 15 CONTACTS			
OPERATING TEMPERATURE	233~398K(-40°C~+125°C)			
OPERATING HUMIDITY	85% MAX.			
CONTACT RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : 240mohm MAX.			
INSULATION RESISTANCE	500Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min			
DURABILITY	50TH CYCLES			
FPC/FFC MATING FORCE (INITIAL / 50TH CYCLES)	20P : 15.00 N MAX. 30P : 22.00 N MAX. 40P : 29.00 N MAX. 50P : 36.00 N MAX. 60P : 43.00 N MAX.			
FPC/FFC UNMATING FORCE (INITIAL / 50TH CYCLES)	20P : 2.00 N MIN. 30P : 2.70 N MIN. 40P : 3.40 N MIN. 50P : 4.10 N MIN. 60P : 4.80 N MIN.			
FPC/FFC RETENTION FORCE (INITIAL / AFTER TEST)	20P : 11.00 N MIN. 30P : 11.70 N MIN. 40P : 12.40 N MIN. 50P : 13.10 N MIN. 60P : 13.80 N MIN.			
COPLANARITY	0.10 MAX.			
PRODUCT SPECIFICATION	PRS-2305			
TEST REPORT	TR-17100			
PACKING STANDARD	PST-18002			
INSTRUCTION MANUAL	HIM-16039			
APPEARANCE CRITERIA No.	QLS-A***			



NOTES 7. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Custom Products Available



MHF[®] series

CABLINE[®] series Micro-coaxial/Twinax/ **Discrete Wire Connector**

NOVASTACK[®] series



LIGHTPASS[®] series



Power Connector/ 道深段 Terminal



MINIFLEX[®] series

EVAFLEX[®] series



I-PEX, MHF, CABLINE, LIGHTPASS, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCKS and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

> Contact your sales representative or more detailed information. www.i-pex.com

© I-PEX Inc. 2024 All rights reserved