Micro-Coaxial Connector

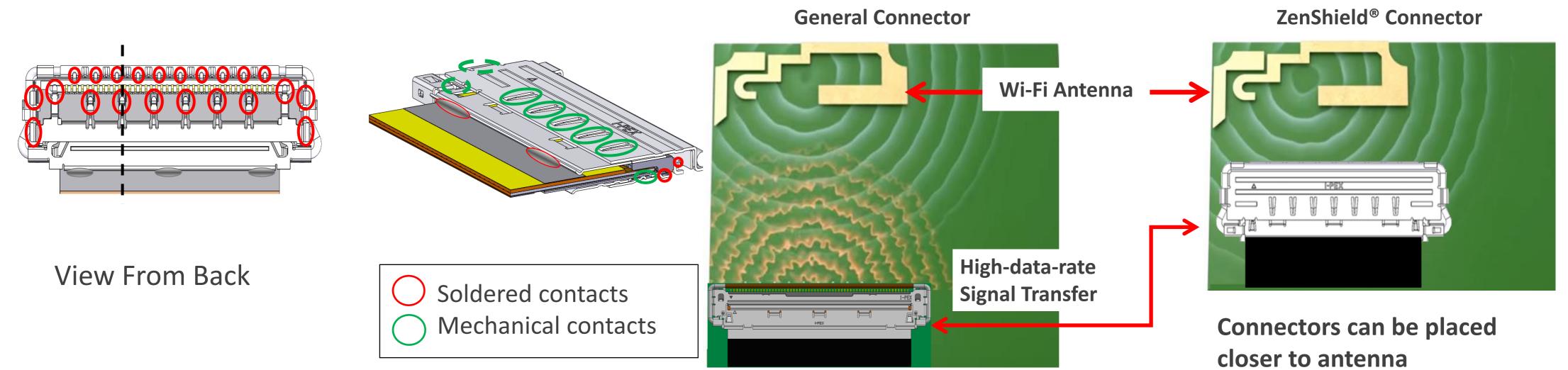
CABLINE®-CA IIF

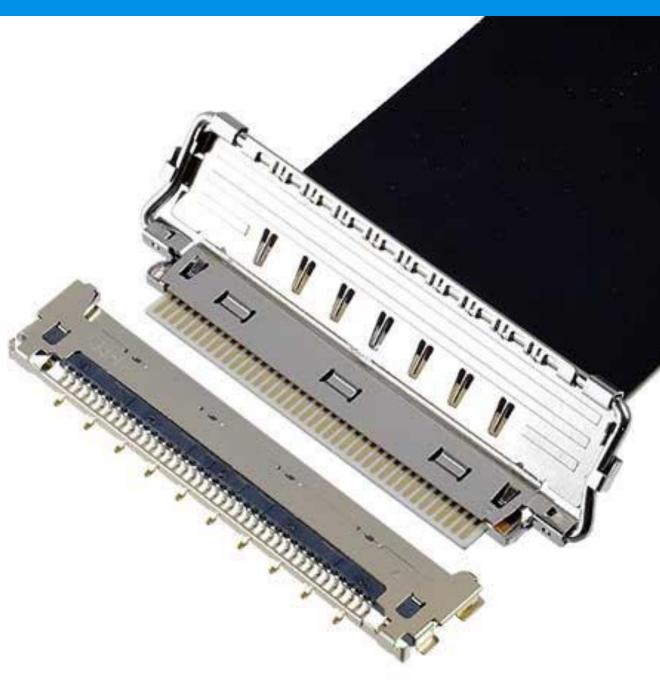
Fully-shielded with mechanical lock, suitable for high-data-rate transfer (32 Gbps/lane),0.4 mm pitch, Horizontal mating type FPC plug connector

Product Specific	cations:	ons: Applicable FPC					
Mating type		Horizontal FPC		FPC Type	Shielded FPC		
Board Pite	ch (mm)	0.4		FPC Pitch (mm)	0.4		
Wiping Length (mm)		0.48		FPC Contact Point	Тор		
	Height	1.10 max. with cover		FDC Thickness (mm)	Contact Area: 0.25 +0.02/-0.03		
Mated size (mm)	Width	Formula: 6.95 + (0.4*?p)		FPC Thickness (mm)	Ground Area: 0.37 +0.04/-0.06		
	Depth	6.74	Applicable Standards (Reference Only):				
Pin Counts	Range	Up to 60		32 Gbps/ Lane, USB4 Gen4 (40 Gbps/ Lane PAM3)			
	Available	30, 40, 50		Display Port UHBR20 (20 Gbp	os/Lane),		

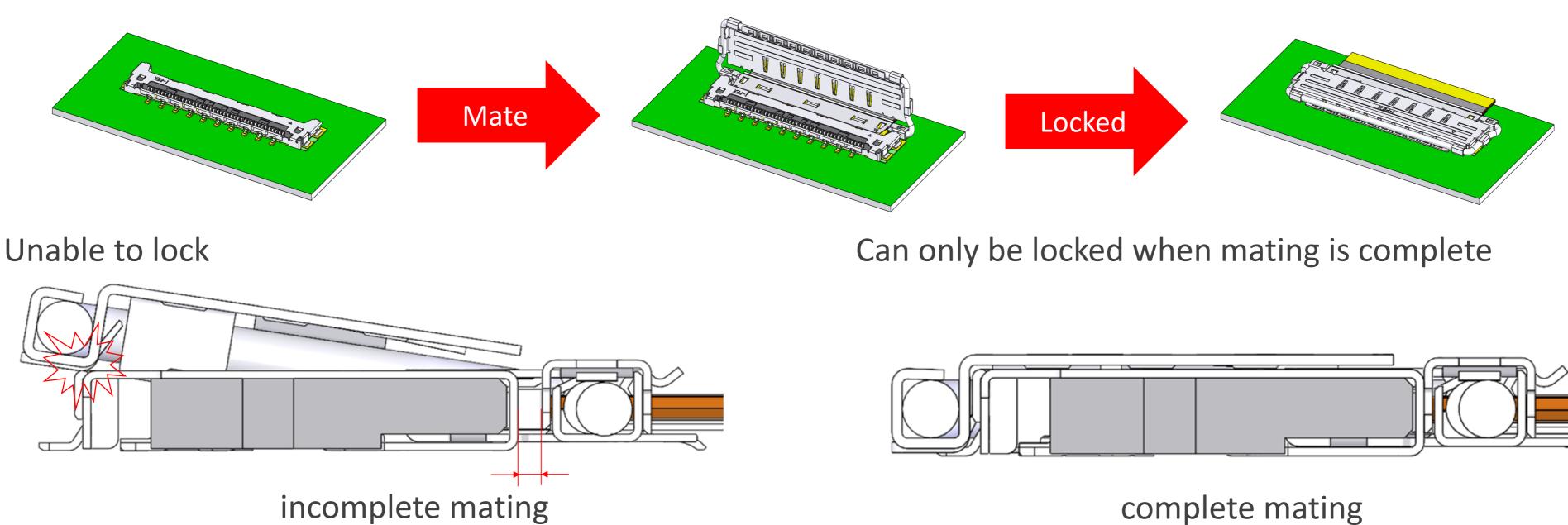
* Please inquire for pin counts not listed or outside of the pin count range.

ZenShield[®] fully-shielded with multi-point grounds is ideal for EMC solutions





Mechanical locking cover prevents incomplete mating and back-out/unmating



High-data-rate transfer, ideal for 32 Gbps/lane applications

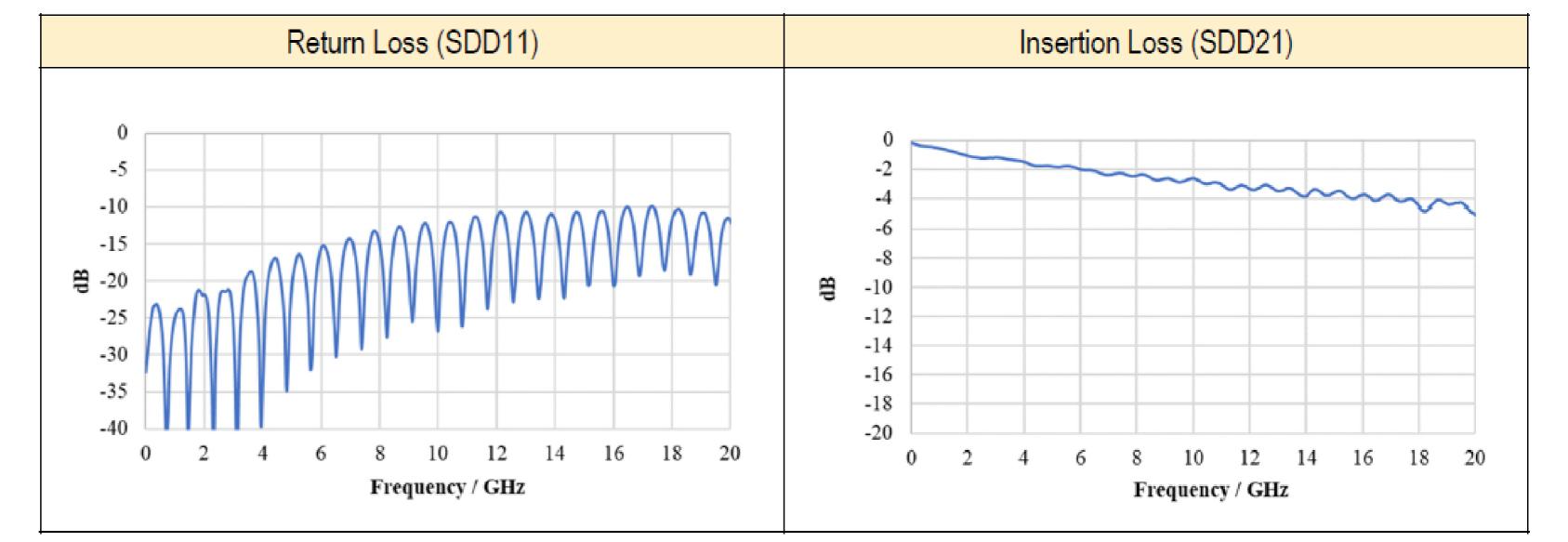
Measurement results

Connector: CABLINE-CA IIF 40P

FPC: Shielded FPC, Differential 90 ohm, Length : 100 mm

Pin Assignment: GSSGSSG

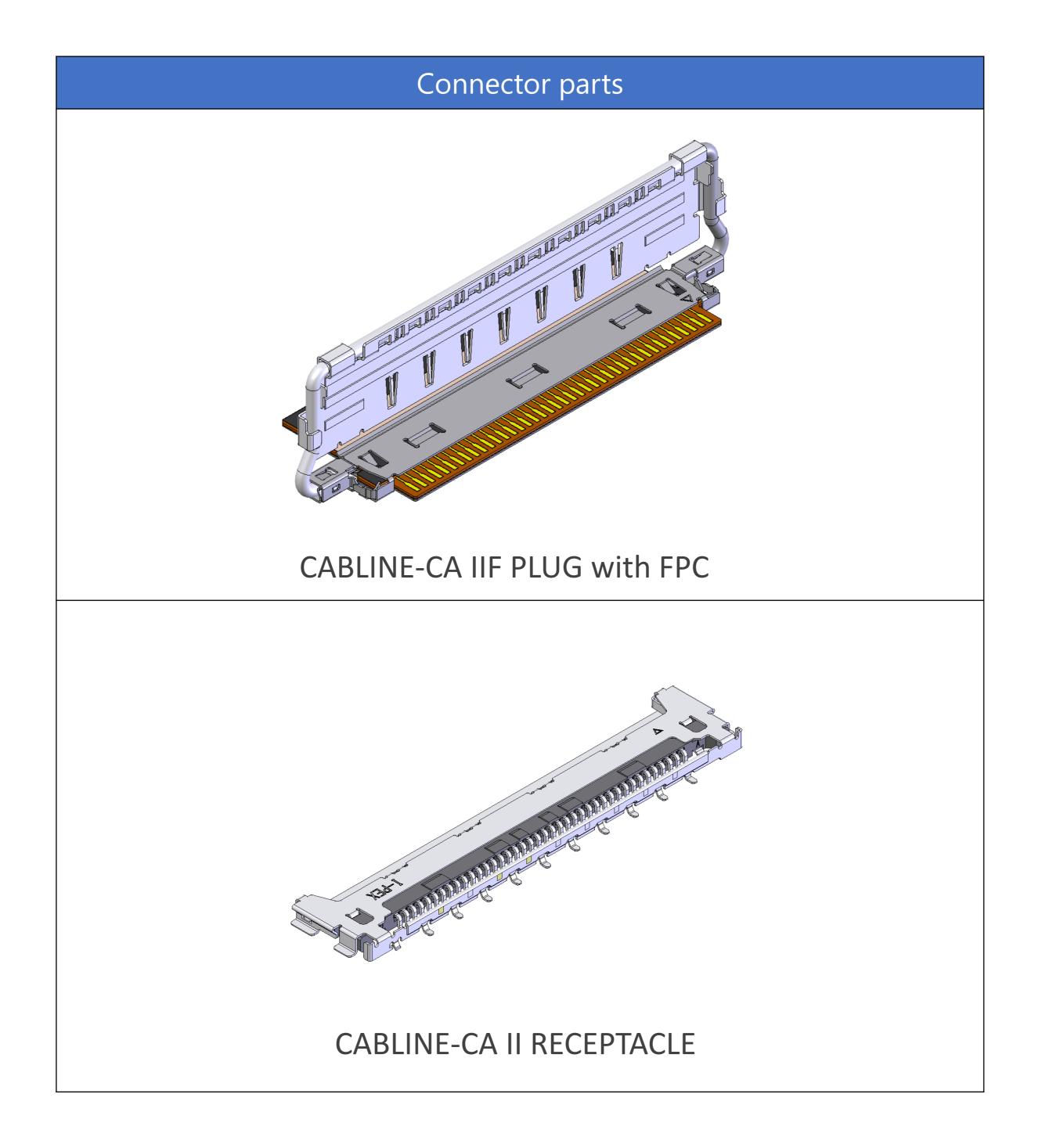
I-PEX





Component Parts Details

Component Parts

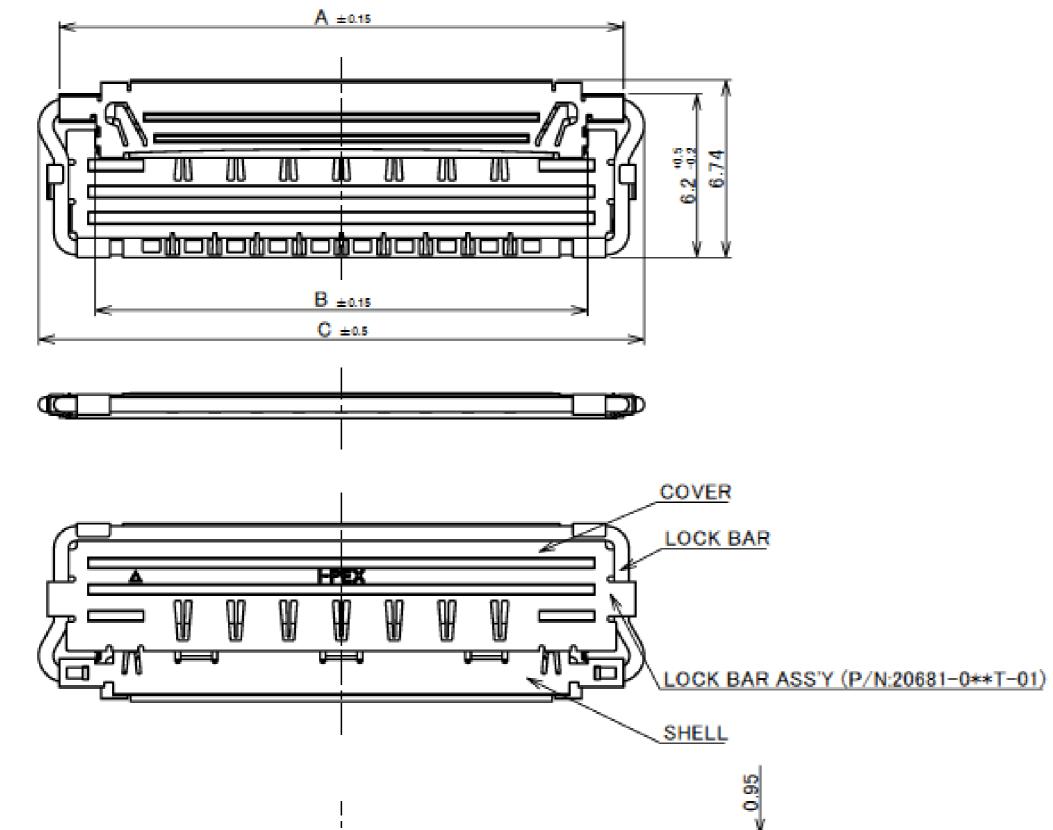


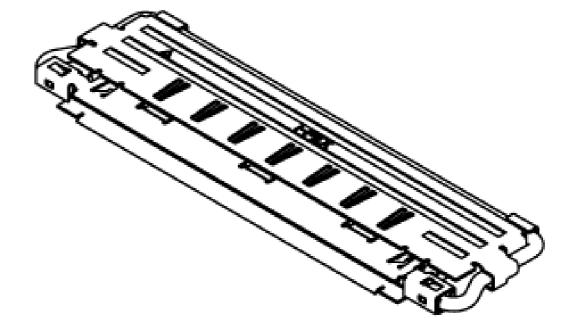


Shell Assembly

Recommended F	P/N	2085	6-0**	T-01
PART No.	Α	В	С	
20856-030T-01	17.40	14.66	18.95	
20856-040T-01	21.40	18.66	22.95	
20856-050T-01	25.40	22.66	26.95	









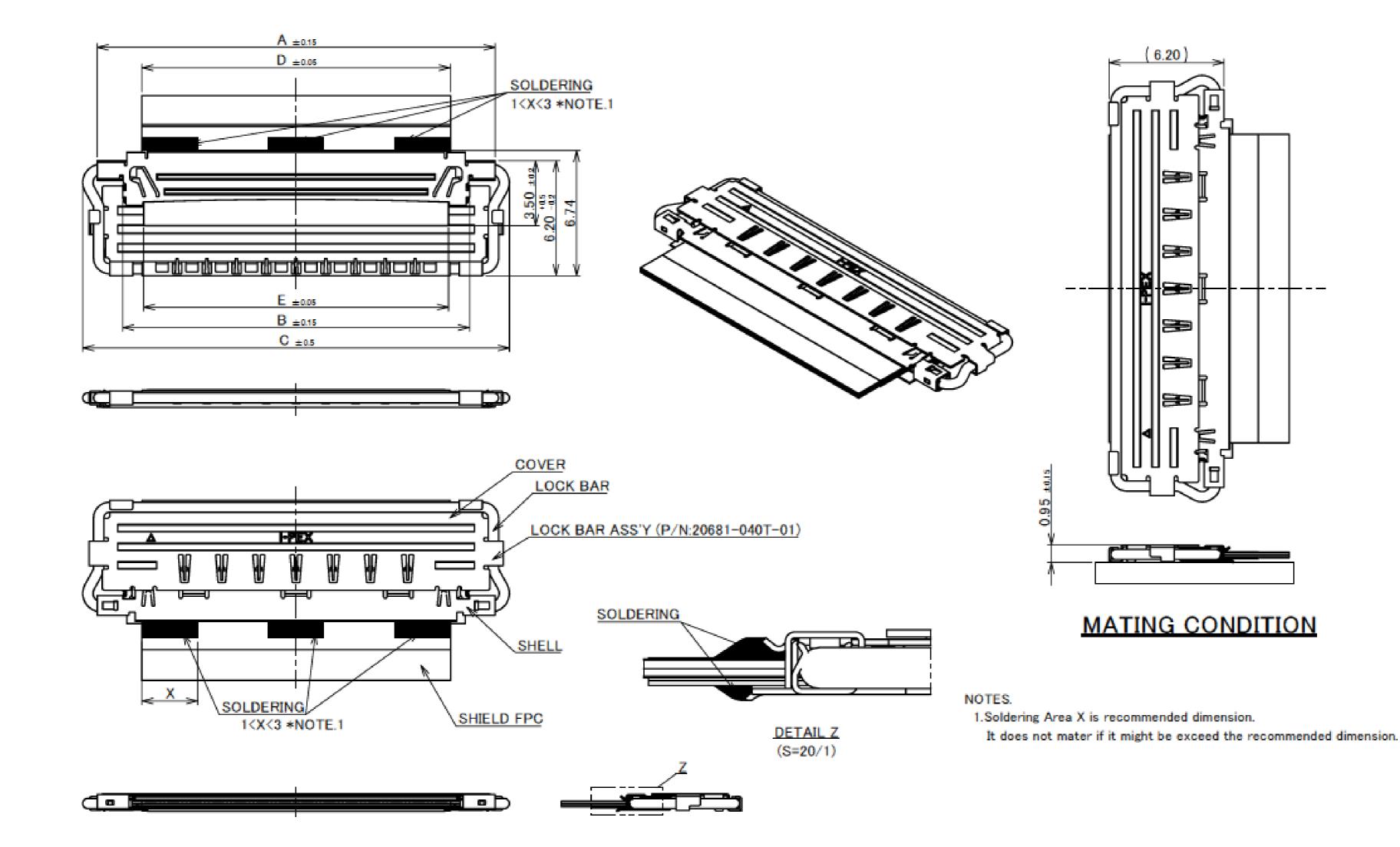


FPC ASS'Y STATE COVER CLOSE

3	COVER	PHOSPHOR BRONZE	Ni PLATING
2	LOCK BAR	STAINLESS STEEL	-
1	SHELL	PHOSPHOR BRONZE	PARTIAL Au 0.003 μ m MIN. OVER Ni 1.00 μ m MIN.
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

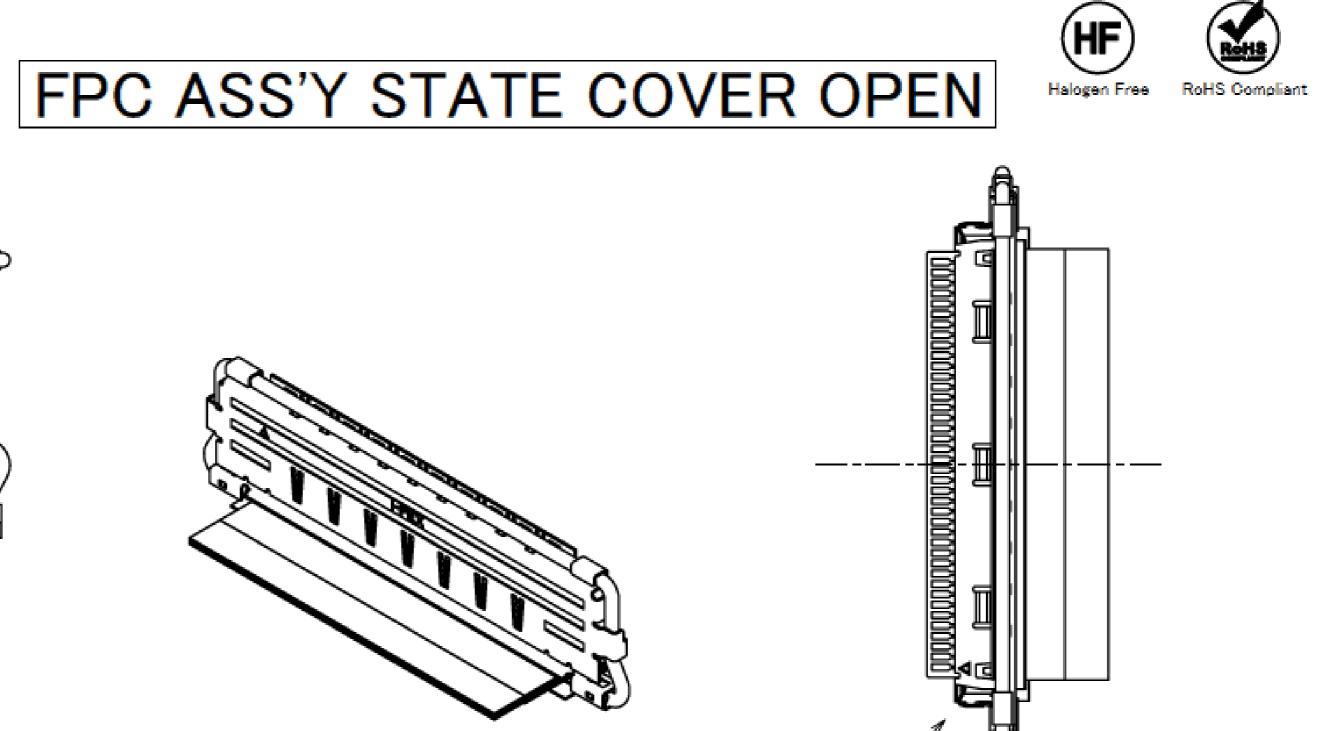
Recommended F	P/N	2085	6-0**	T-01	
PART No.	Α	В	С	D	E
20856-030T-01	17.40	14.66	18.95	12.60	12.40
20856-040T-01	21.40	18.66	22.95	16.60	16.40
20856-050T-01	25.40	22.66	26.95	20.60	20.40

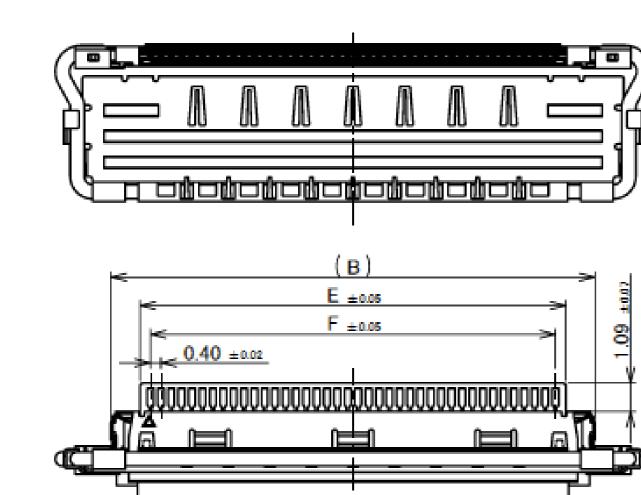




Shell Assembly

Recommended F	P/N	2085	6-0**	T-01
PART No.	B	E	F	
20856-030T-01	14.66	12.40	11.60	
20856-040T-01	18.66	16.40	15.60	
20856-050T-01	22.66	20.40	19.60	

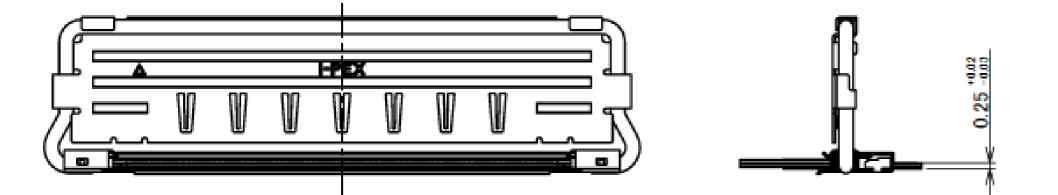




RECEPTACLE ASS'Y(P/N:20682-0**E-0#

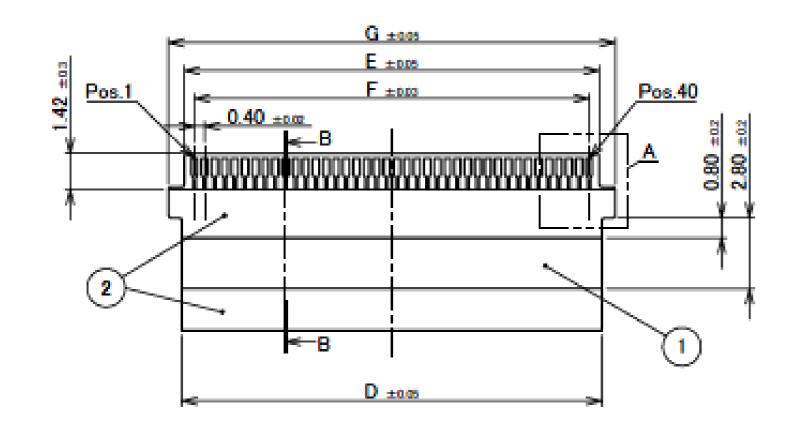


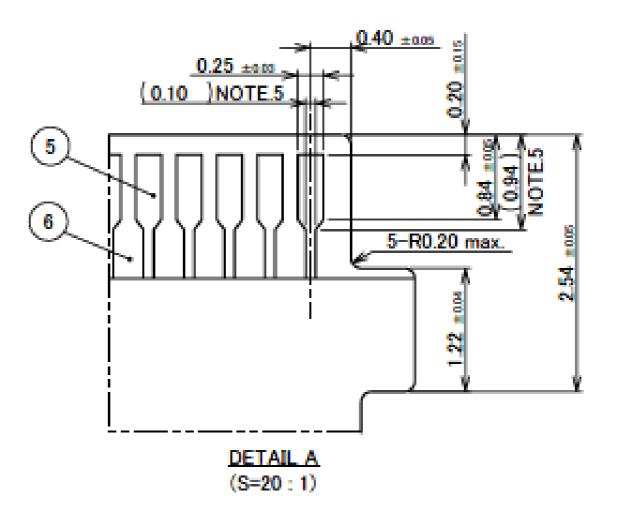
MATING CONDITION

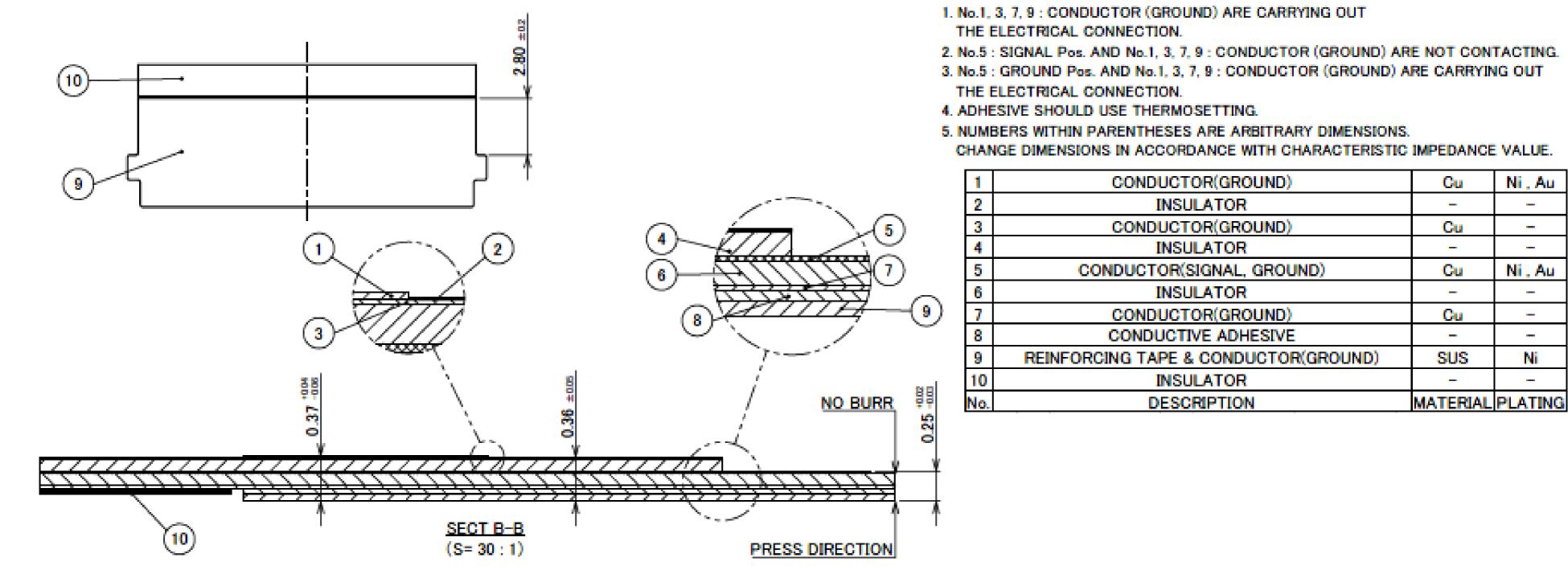


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PART No.	D	E	F	G
20856-030T-01	12.60	12.40	11.60	13.66
20856-040T-01	16.60	16.40	15.60	17.66
20856-050T-01	20.60	20.40	19.60	21.66







Rev.13

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Ni

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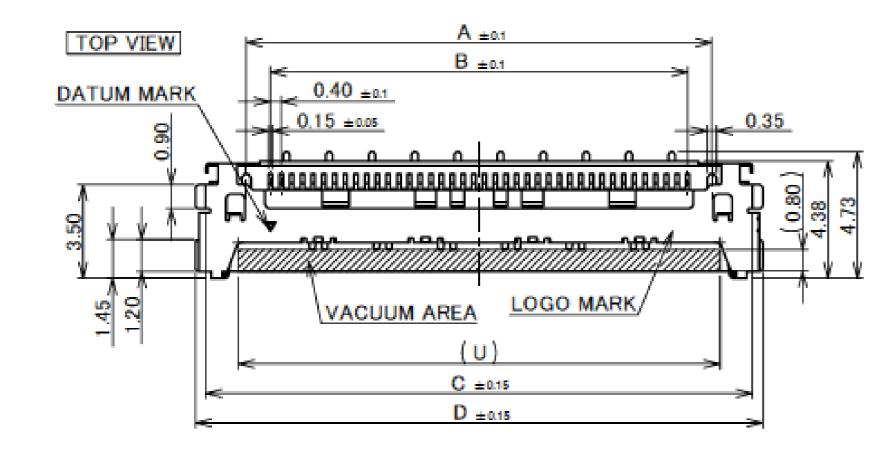
I-PEX

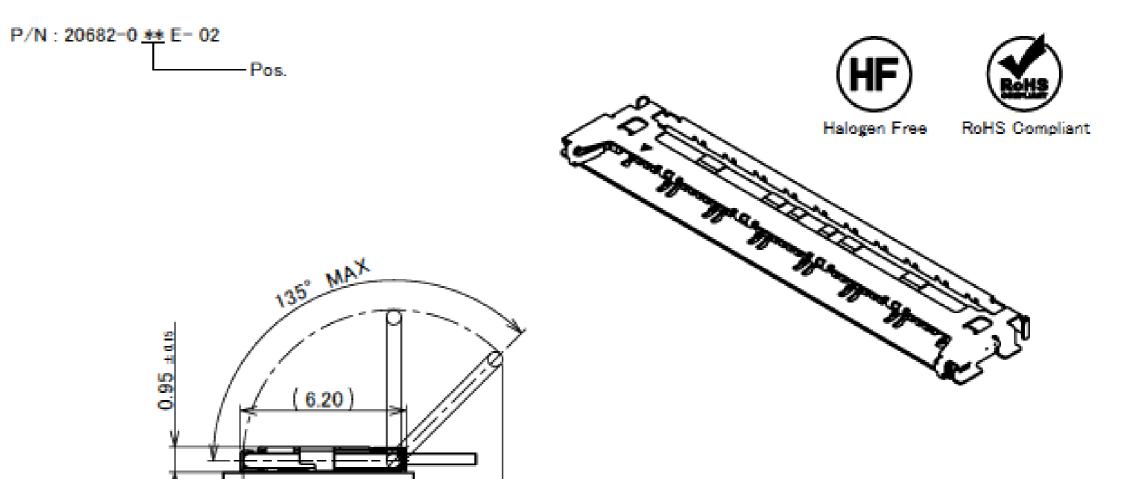
Shell Assembly

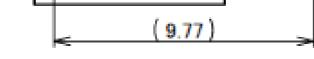
ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : ⊿40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : ⊿40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 13.5N MAX. 40P : 18.0N MAX. 50P : 22.5N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.44N MIN. 40P : 1.92N MIN. 50P : 2.40N MIN.
PRODUCT SPECIFICATION	PRS-2418
TEST REPORT	TR-17079
PACKING STANDARD	PST-17104
INSTRUCTION MANUAL	HIM-17029
ASSEMBLY MANUAL	ASM-17006
APPEARANCE CRITERIA No.	QLS-A***

Receptacle Assembly

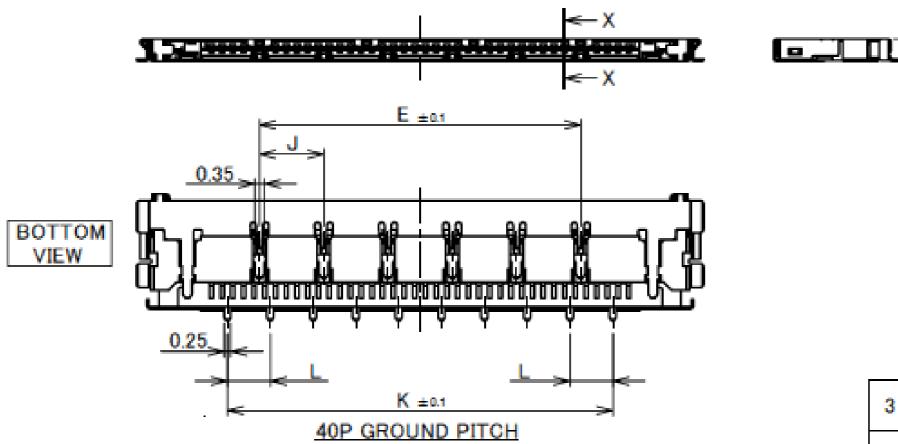
Recommended	20682-0**E-02									
PART NO.	Pos.	Α	В	С	D	E	J	ĸ	L	U
20682-020E-02	20	9.40	7.60	12.43	13.20	4.80	2.40	5.60	2.00	10.01
20682-030E-02	30	13.40	11.60	16.43	17.20	9.60	2.40	12.00	1.60	14.01
20682-040E-02	40	17.40	15.60	20.43	21.20	12.00	2.40	14.40	1.60	18.01
20682-050E-02	50	21.40	19.60	24.43	25.20	16.80	2.80	18.40	1.60	22.01

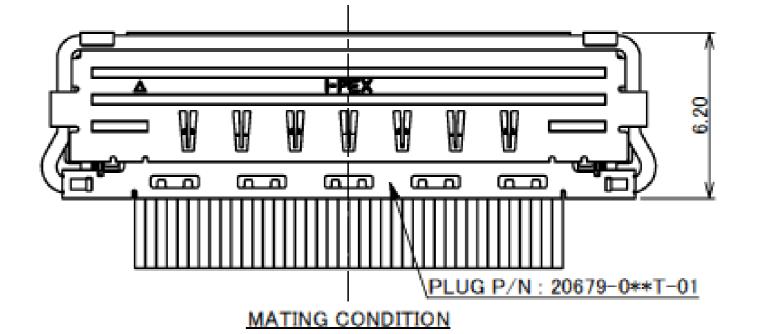






LOCK BAR MOVEMENTS





3	SHELL	PHUSPHUR BRUNZE	ALL OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN.
2	CONTACT	PHUSPHUR BRUNZE	ALL OVER Ni 1.00 µ m MIN. CONTACT & SOLDERING AREA : Au 0.03 µ m MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

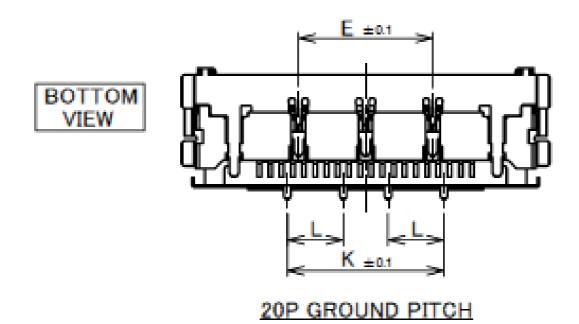
Rev.16

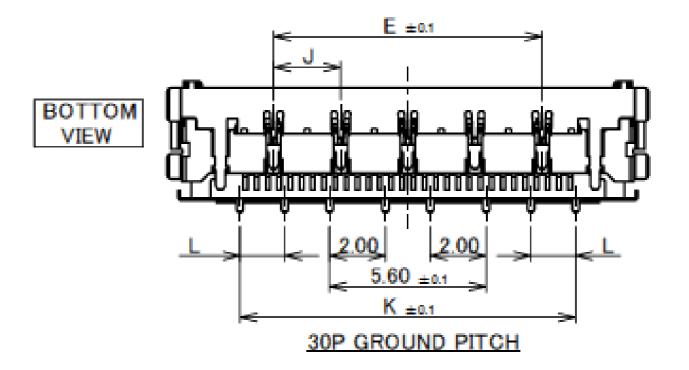
Contact your sales representative for more detailed information. <u>www.i-pex.com</u>

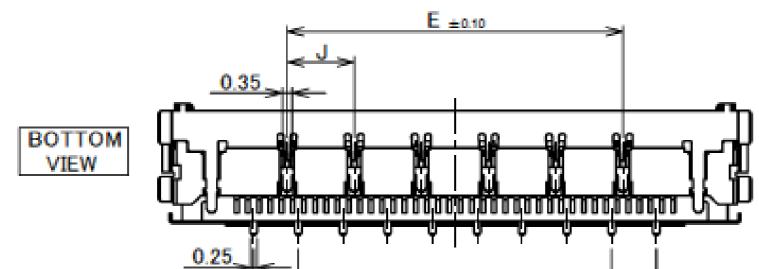
0.82

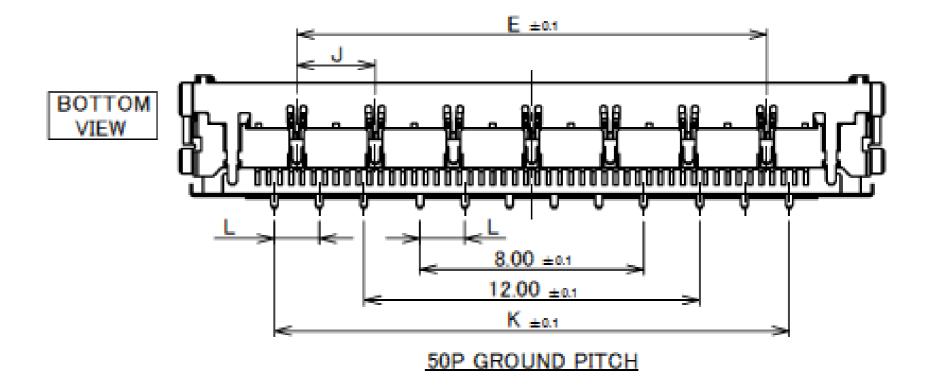
Receptacle Assembly

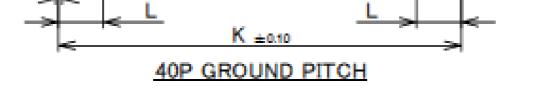
PART NO.	Pos.	Ε	J	Κ	L
20682-020E-02	20	4.80	2.40	5.60	2.00
20682-030E-02	30	9.60	2.40	12.00	1.60
20682-040E-02	40	12.00	2.40	14.40	1.60
20682-050E-02	50	16.80	2.80	18.40	1.60



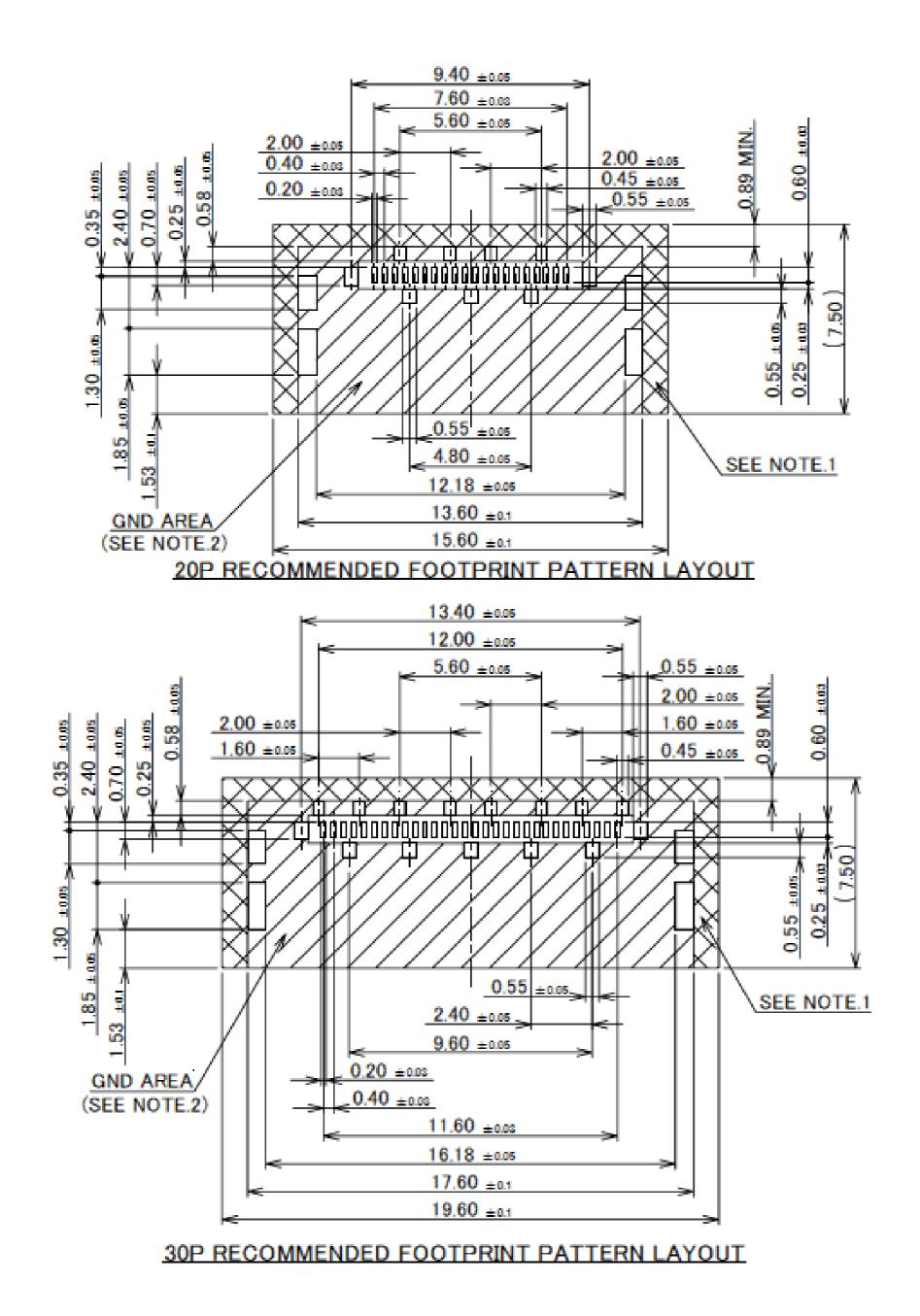


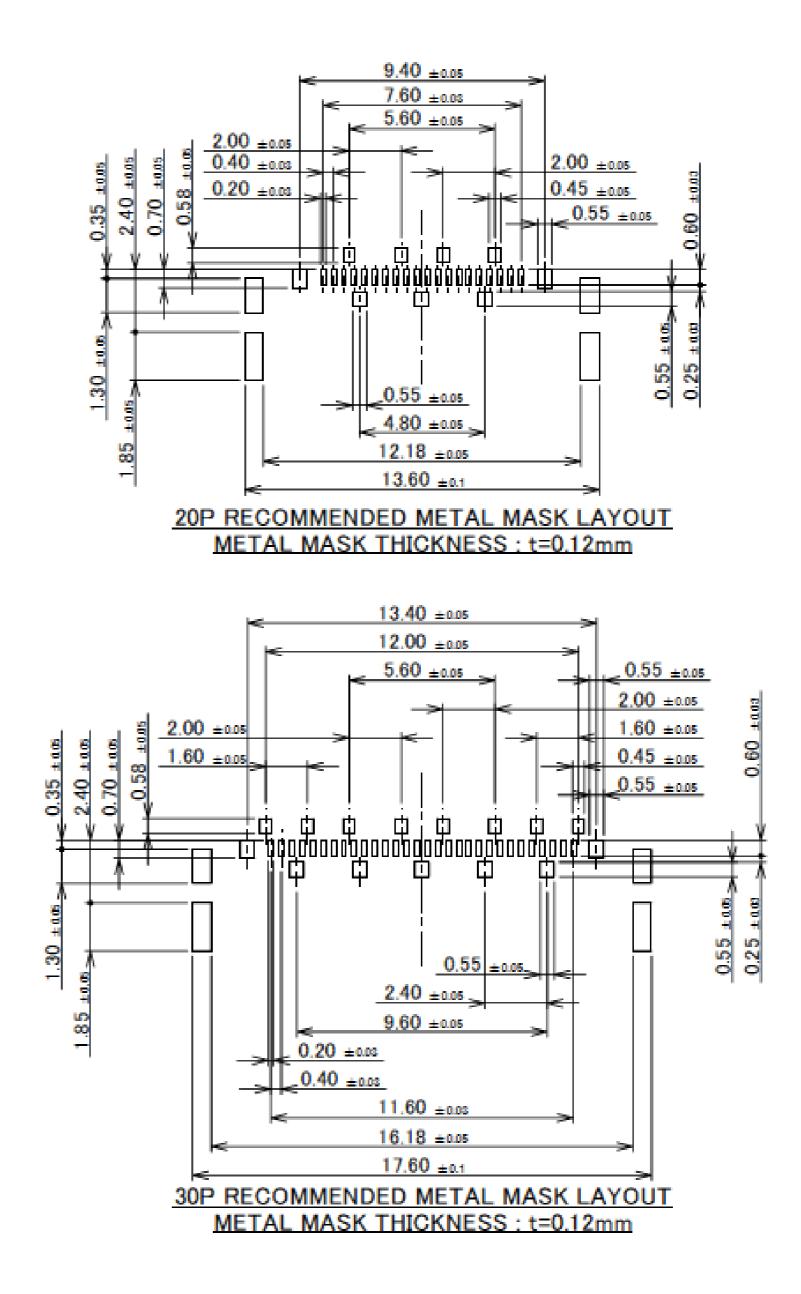






Rev.16



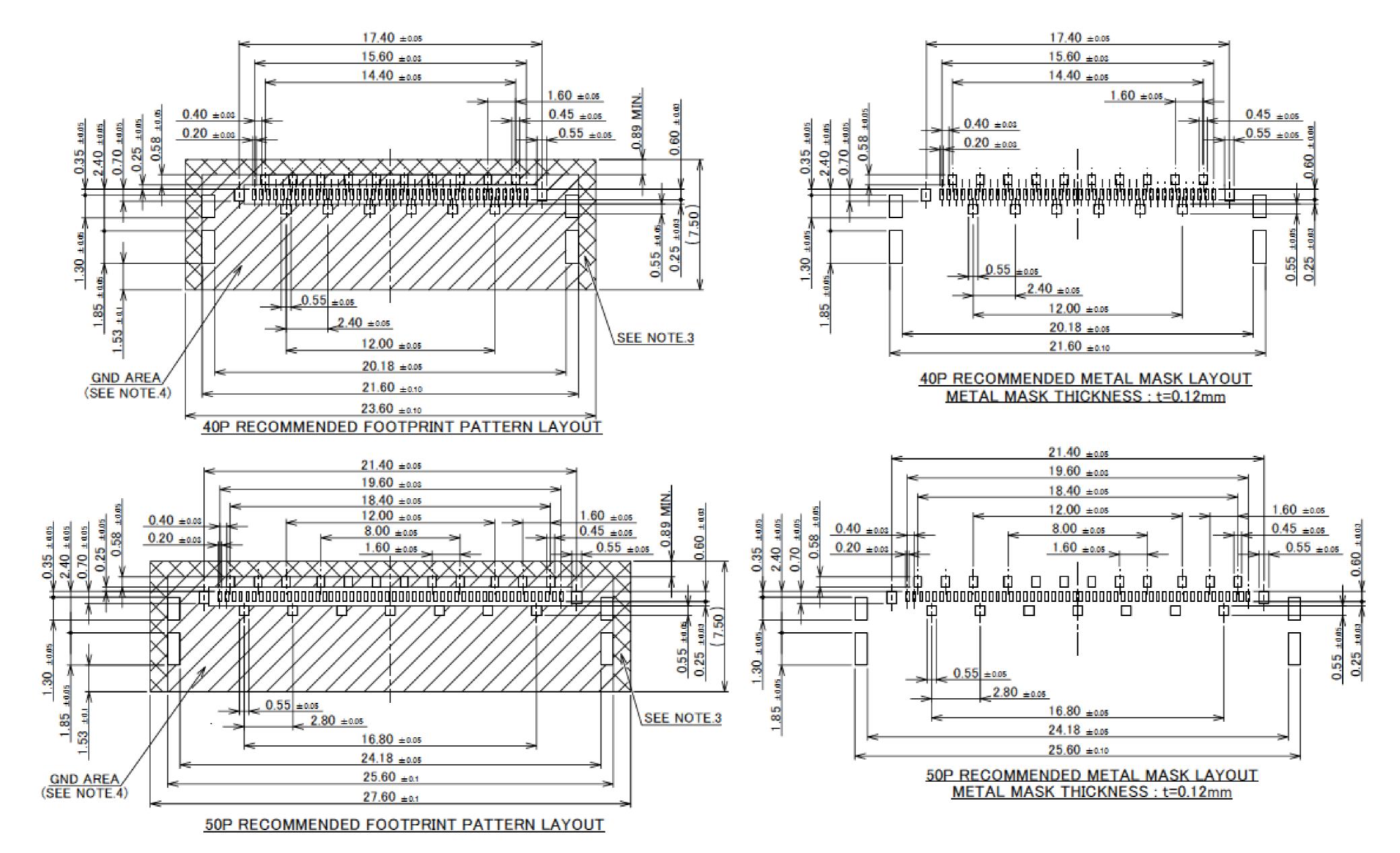


NOTES. 1. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA. 2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

Rev.16



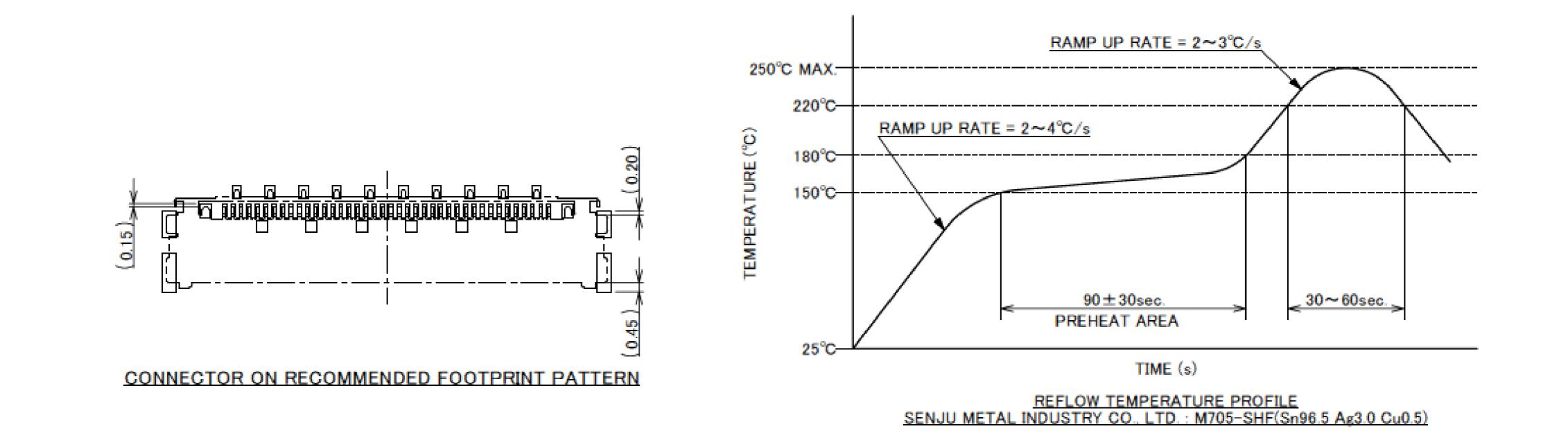
Receptacle Assembly



NOTES.

DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
SOLDER RESIST MUST BE APPLIED TO THIS AREA.

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Rev.16

Receptacle Assembly

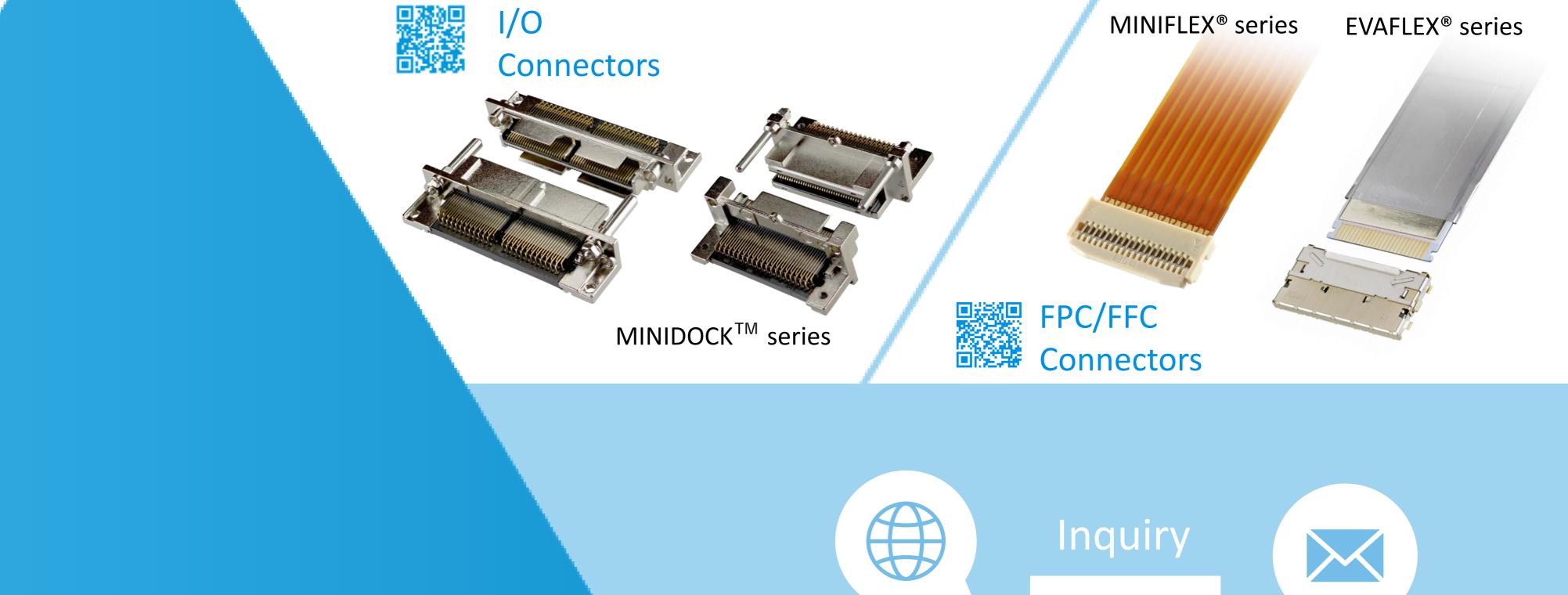
FOR CABLINE-CA IIF PLUG SHELL ASSEMBLY (DWG. NO. 20856)

ITEMS	SPECIFICATION
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN) ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERTURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : ⊿40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 60mohm MAX. / AFTER TEST : 240mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	30P : 13.5N MAX. 40P : 18.0N MAX. 50P : 22.5N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.44N MIN. 40P : 1.92N MIN. 50P : 2.40N MIN.
PRODUCT SPECIFICATION	PRS-2418
TEST REPORT	TR-17079
PACKING STANDARD	PST-17104
INSTRUCTION MANUAL	HIM-17029
ASSEMBLY MANUAL	ASM-17006
APPEARANCE CRITERIA No.	QLS-A***

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