

Recommended P/N 20682-0**E-02

PART NO.	Pos.	A	B	C	D	E	J	K	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

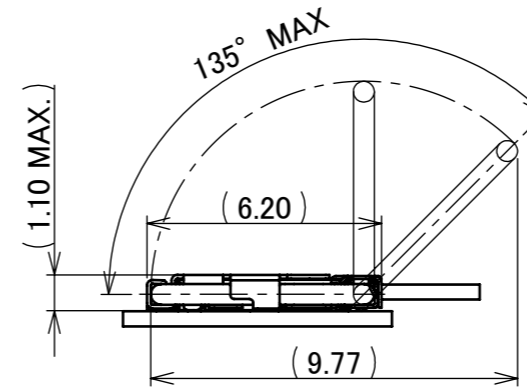
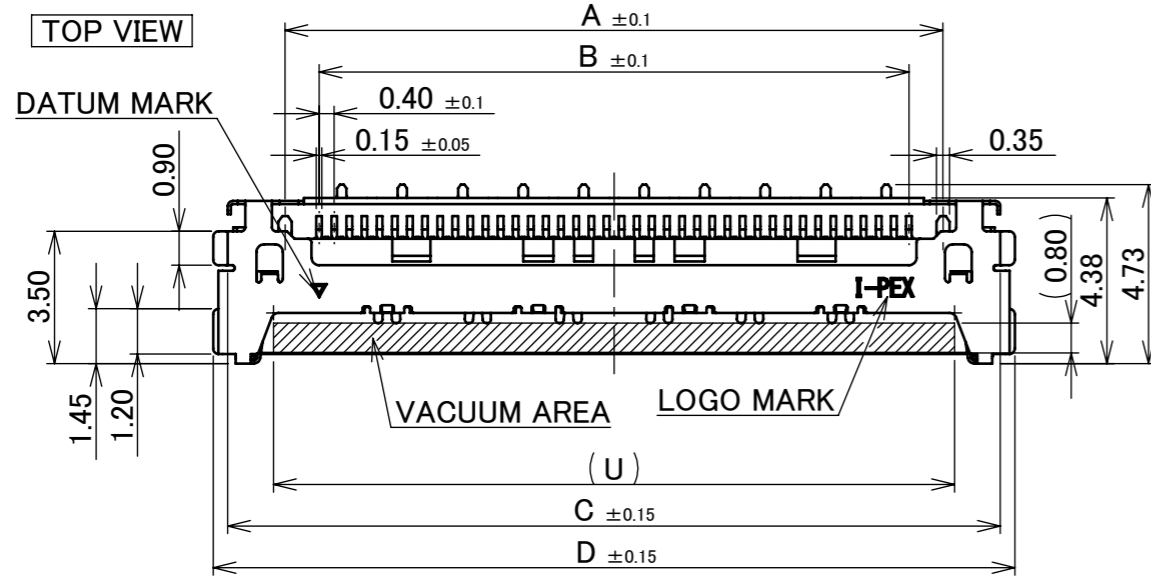
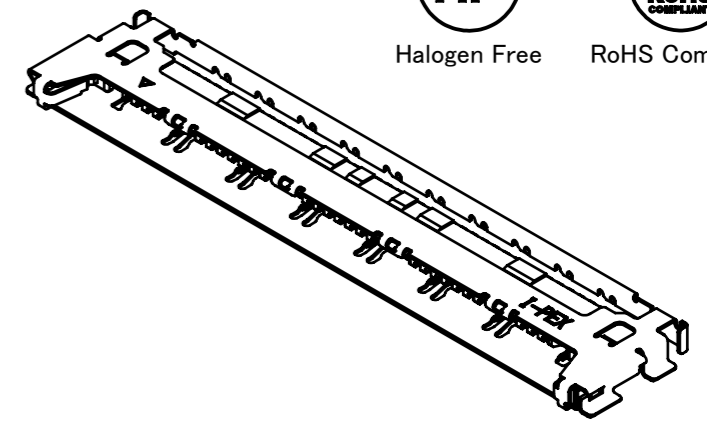
P/N : 20682-0 ** E- 02
Pos.



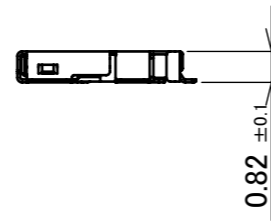
Halogen Free



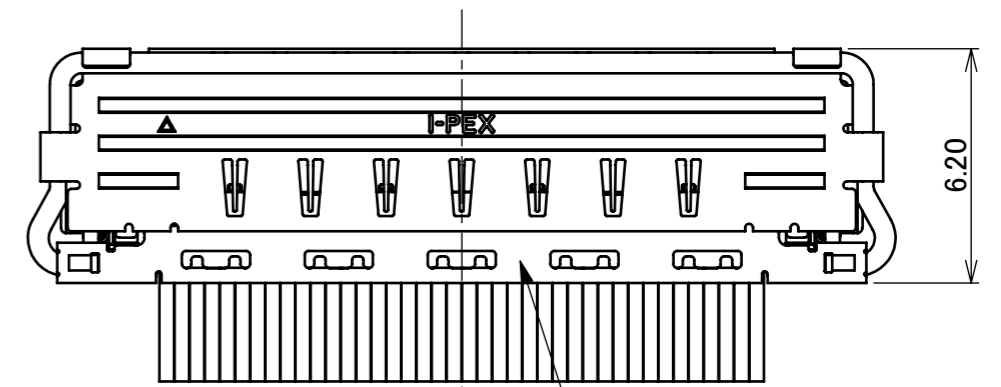
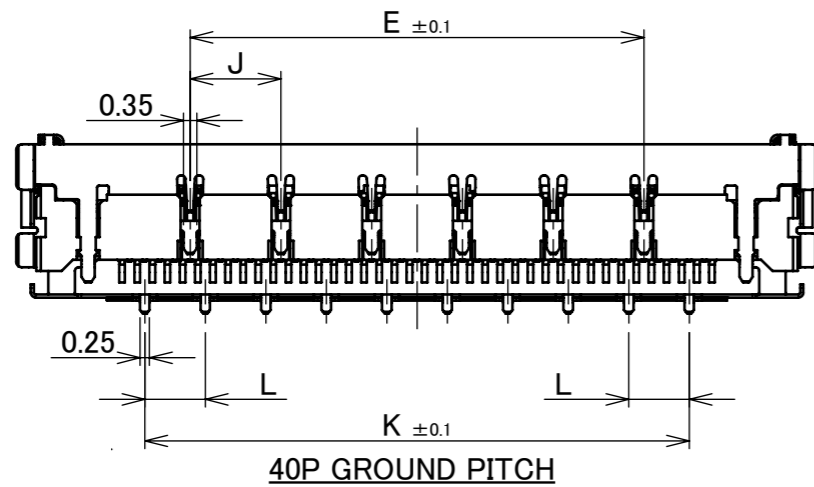
RoHS Compliant



LOCK BAR MOVEMENTS



BOTTOM VIEW



MATING CONDITION

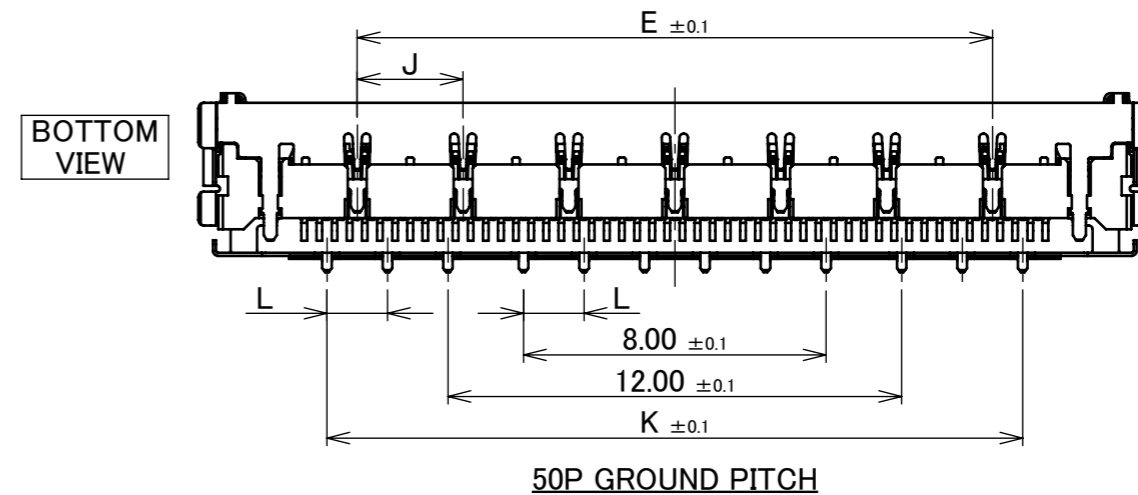
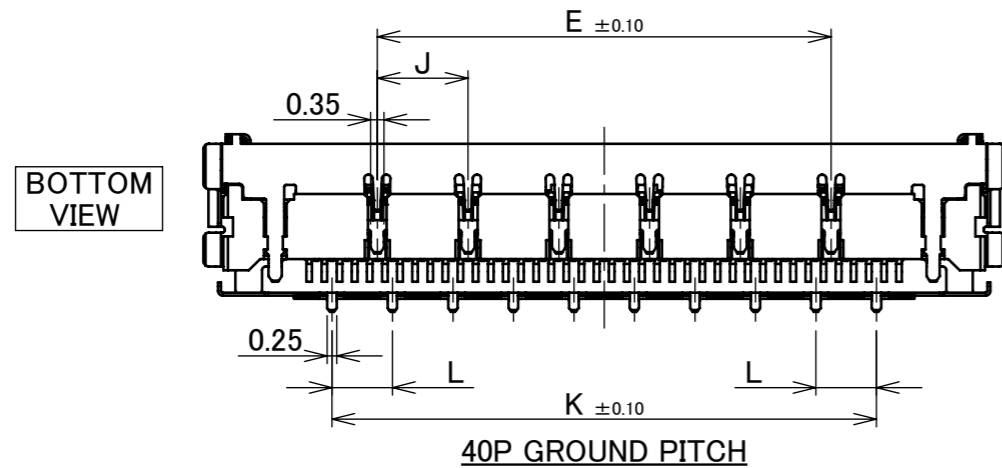
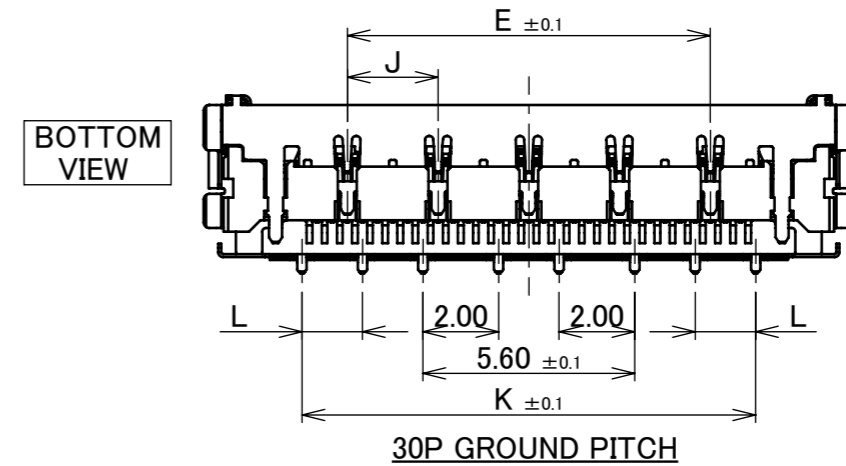
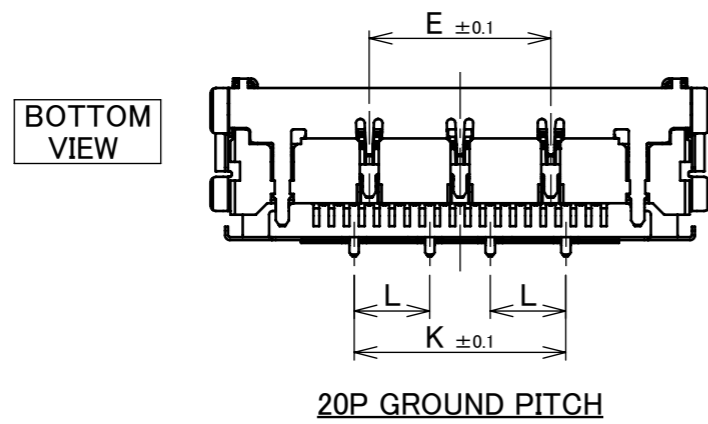
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	SHELL	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.03 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT & SOLDERING AREA : Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0 ,BLACK

REV.	ECN	BY	DATE	APP.	DATE	APP.	DATE	DWG. No.	SIZE	SHEET	REV.				
14	Z241093	K.Hara	Aug./20/'24	H.I	ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R1	CUSTOMER COPY				
13	Z240029	K.Hara	Jan./12/'24	H.I	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5							
12	Z230042	K.B	Jan./13/'23	H.I	GENERAL TOLERANCE.			TITLE CABLINER® -CA II RECEPTACLE ASSEMBLY	SCALE	I-PEX					
11	Z220151	K.Hara	Feb./14/'22	H.I	DWG.	T.Masunaga	DATE		2015/03/24		5:1				
10	Z201144	A.K	Nov./04/'20	Y.S	CHK.	J.Tateishi	DATE		2015/03/24		UNIT				
9	Z200950	A.K	Sept./10/'20	Y.S	APP.	E.Kawabe	DATE		2015/03/25		mm				
REV.	ECN	BY	DATE	APP.	DATE	DATE	DATE	DWG. No.	20682	SIZE	A3	SHEET	1/7	REV.	14

PATENT REGISTERED

PART NO.	Pos.	E	J	K	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

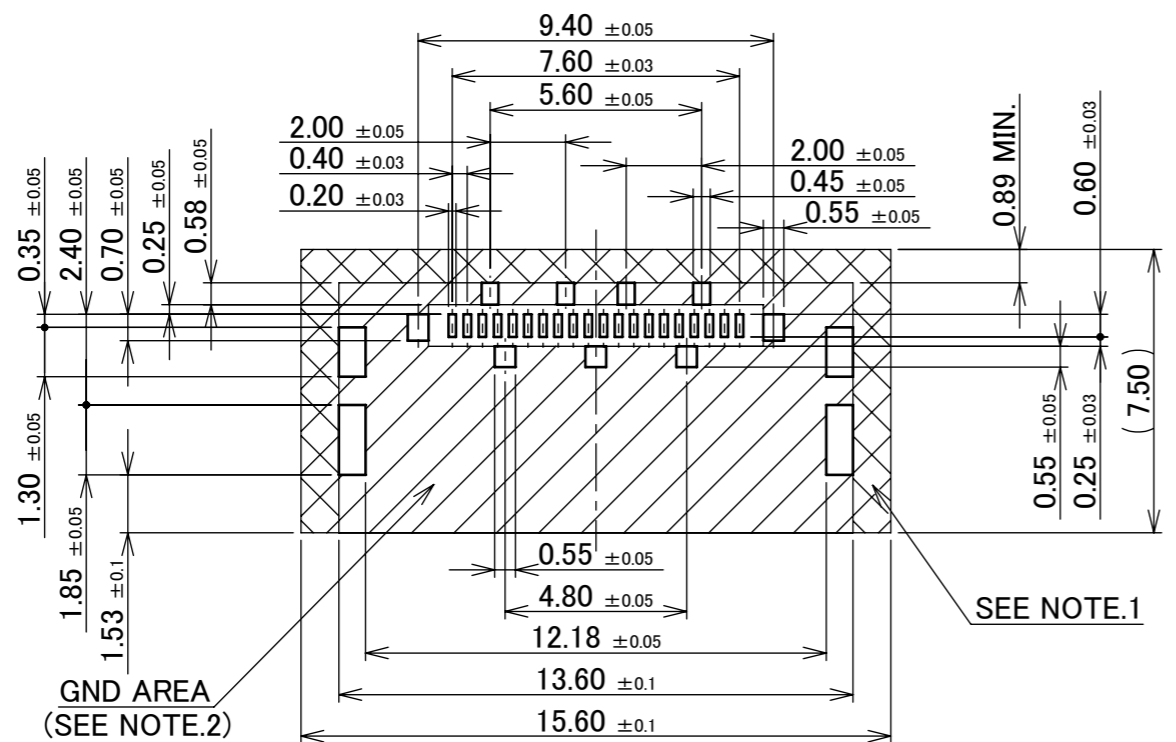
PATENT REGISTERED



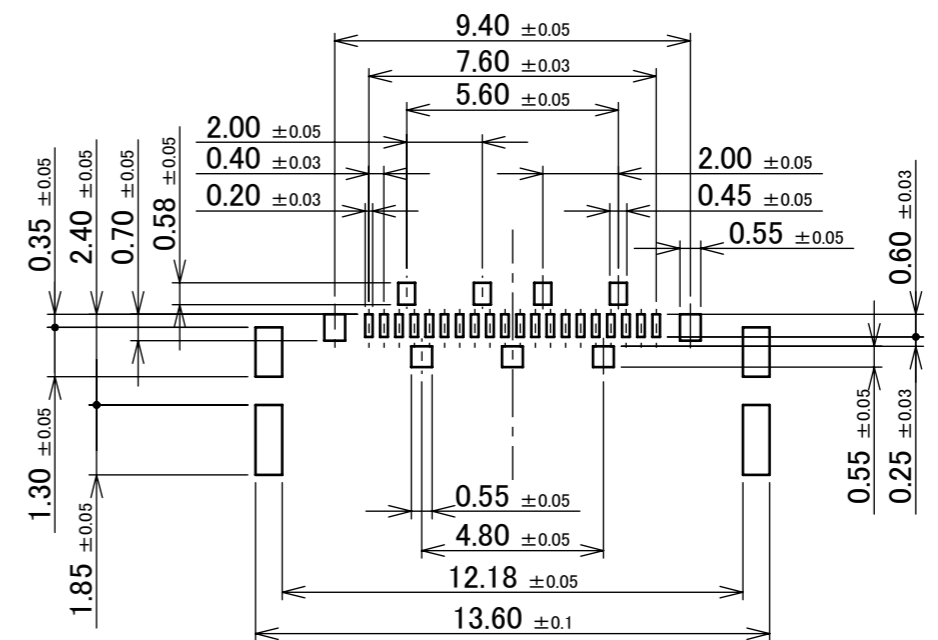
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLIN [®] -CA II RECEPTACLE ASSEMBLY	SCALE 5:1 UNIT mm	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20682	SIZE A3	SHEET 2/7	REV. 14

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE WIRE : AWG# 36 , 34 TWINAX CABLE : AWG# 40 , 42
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 50 CONTACTS 0.24A AC/DC [AWG#42] PER CONTACT PIN/UP TO 50 CONTACTS 0.3A AC/DC [AWG#40] PER CONTACT PIN/UP TO 50 CONTACTS 0.5A AC/DC [AWG#38] PER CONTACT PIN/UP TO 18 CONTACTS 0.8A AC/DC [AWG#36] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 6 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~378K(-40°C~105°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENDING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX.(AWG#34) / AFTER TEST : \triangle 40mohm MAX. 275mohm MAX.(AWG#36) 360mohm MAX.(AWG#38) 600mohm MAX.(AWG#40) 700mohm MAX.(AWG#42) 1080mohm MAX.(AWG#44)
GROUND SHELL RESISTANCE	INITIAL : 50mohm MAX. / AFTER TEST : \triangle 40mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 9.70N MAX. 30P : 14.55N MAX. 40P : 19.40N MAX. 50P : 24.25N MAX.
UN-MATING FORCE (INITIAL / AFTER 30 CYCLES)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.
CABLE RETENTION FORCE	20P : 9.80N MIN. 30P : 14.55N MIN. 40P : 19.40N MIN. 50P : 24.25N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-2163
TEST REPORT	TR-15103
INSTRUCTION MANUAL	HIM-15033
PACKING STANDARD	PST-15027
APPEARANCE CRITERIA No.	QLS-A***

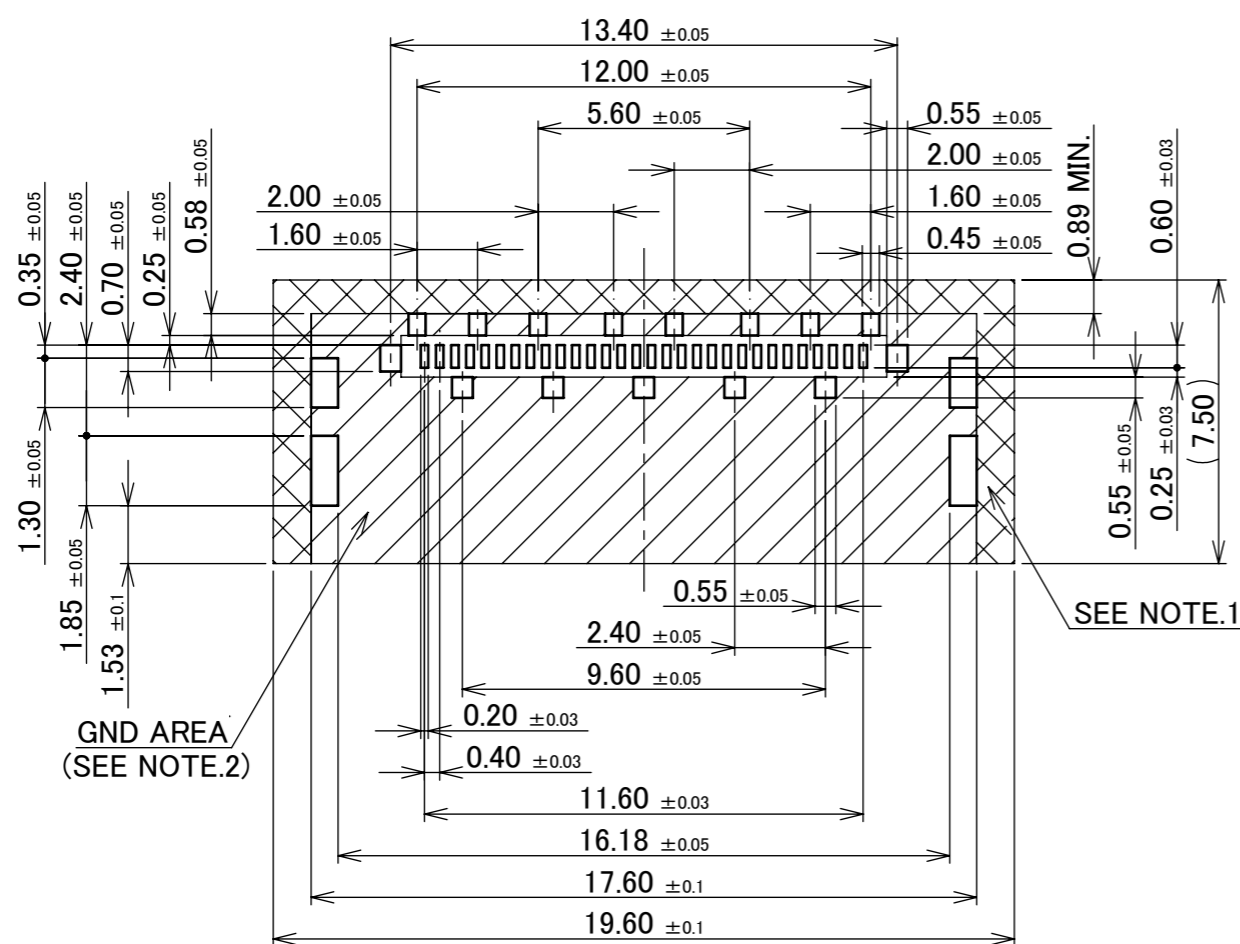
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R1	CUSTOMER COPY			
	6 MAX.	± 0.2	30 OVER 120 MAX.			± 0.5	SCALE 5:1	I-PEX	
GENERAL TOLERANCE.				TITLE CABLIN [®] -CA II RECEPTACLE ASSEMBLY		UNIT mm			
DWG.	DATE			DWG. No. 20682		SIZE A3	SHEET 3/7	REV. 14	
CHK.									
APP.									



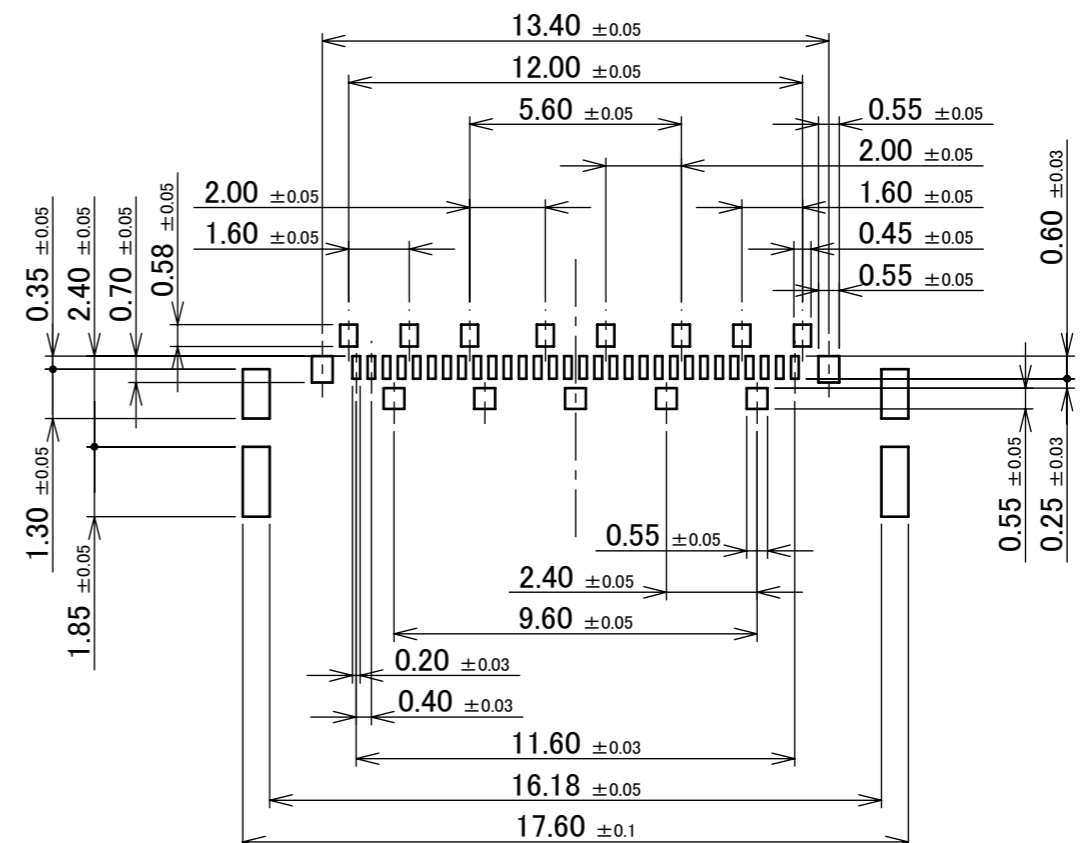
20P RECOMMENDED FOOTPRINT PATTERN LAYOUT



**20P RECOMMENDED METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm**



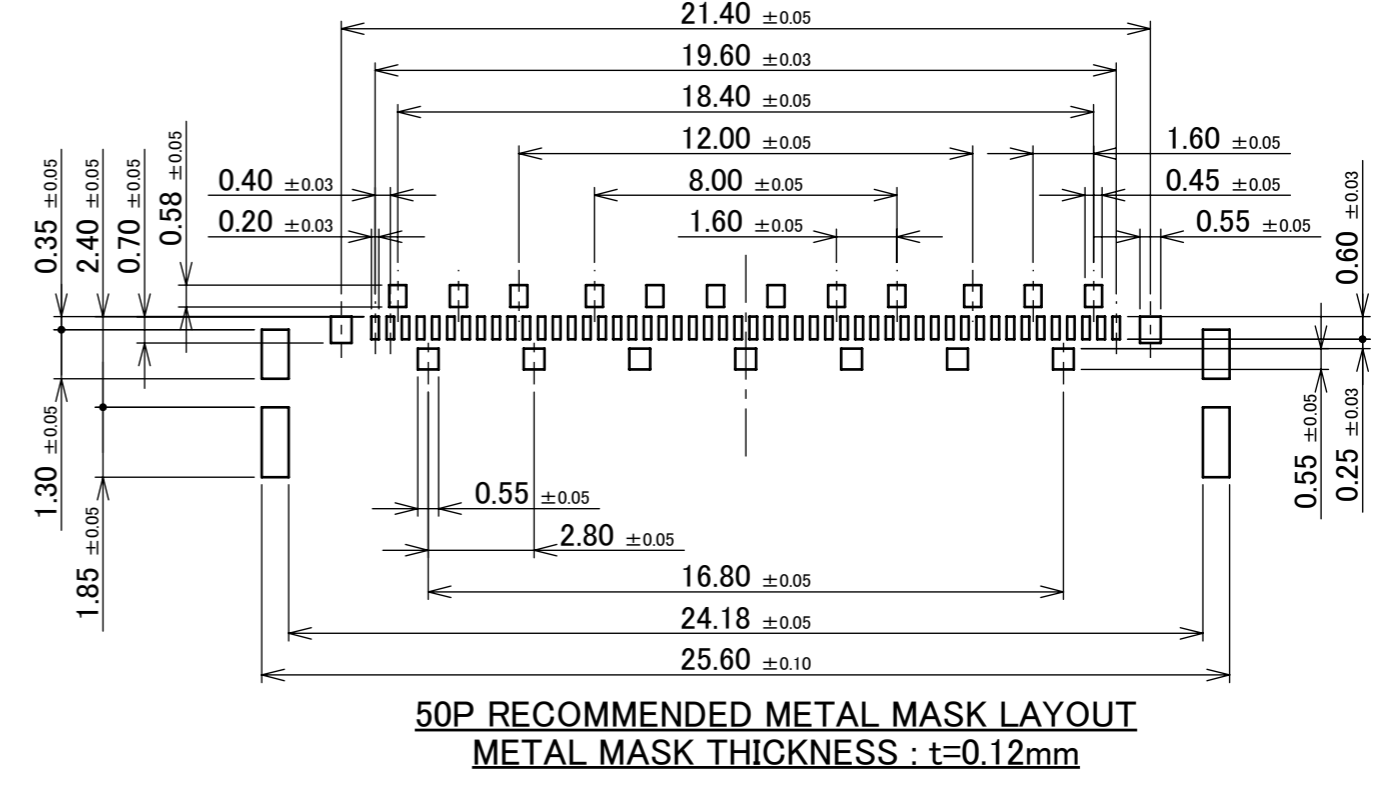
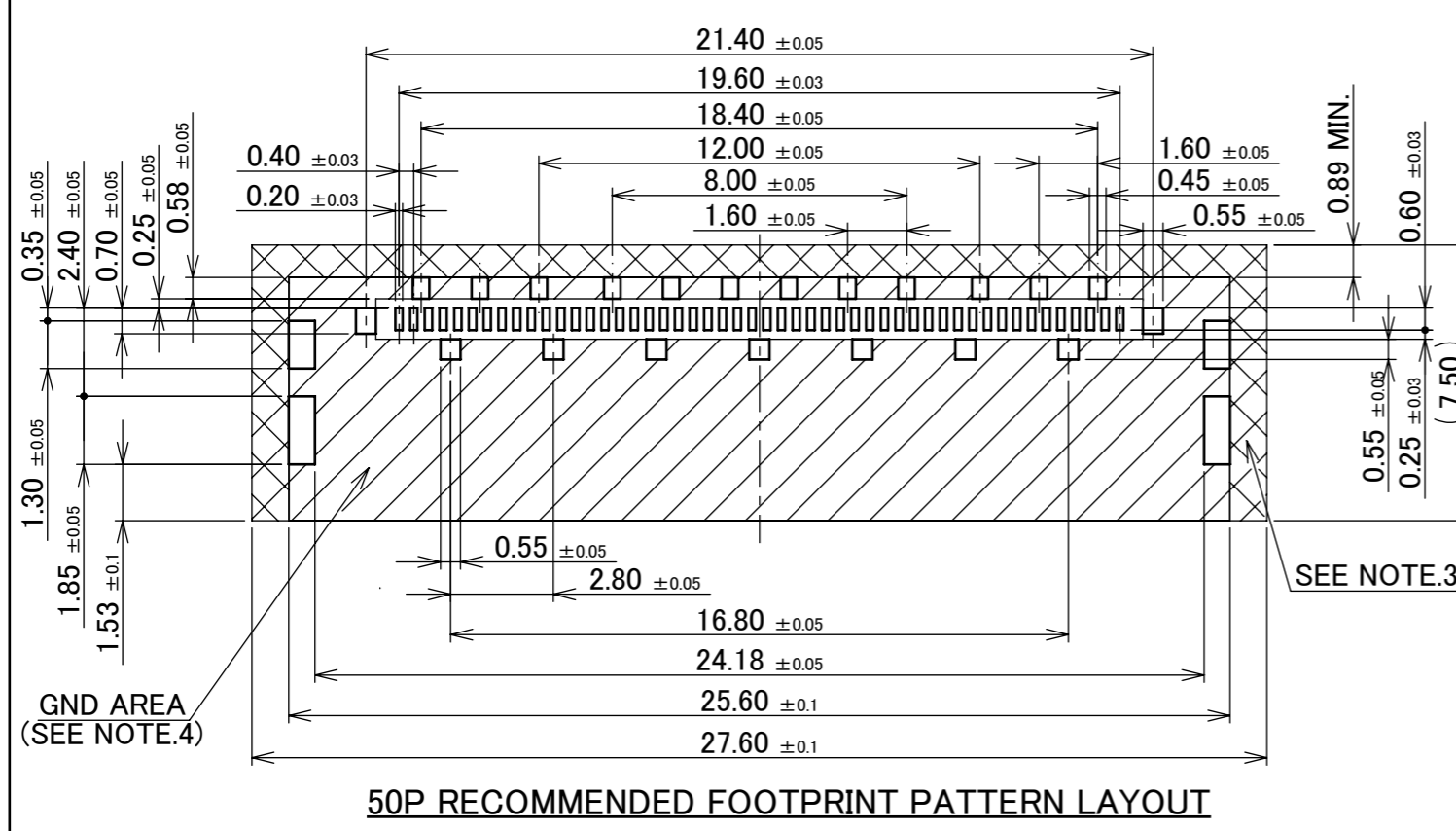
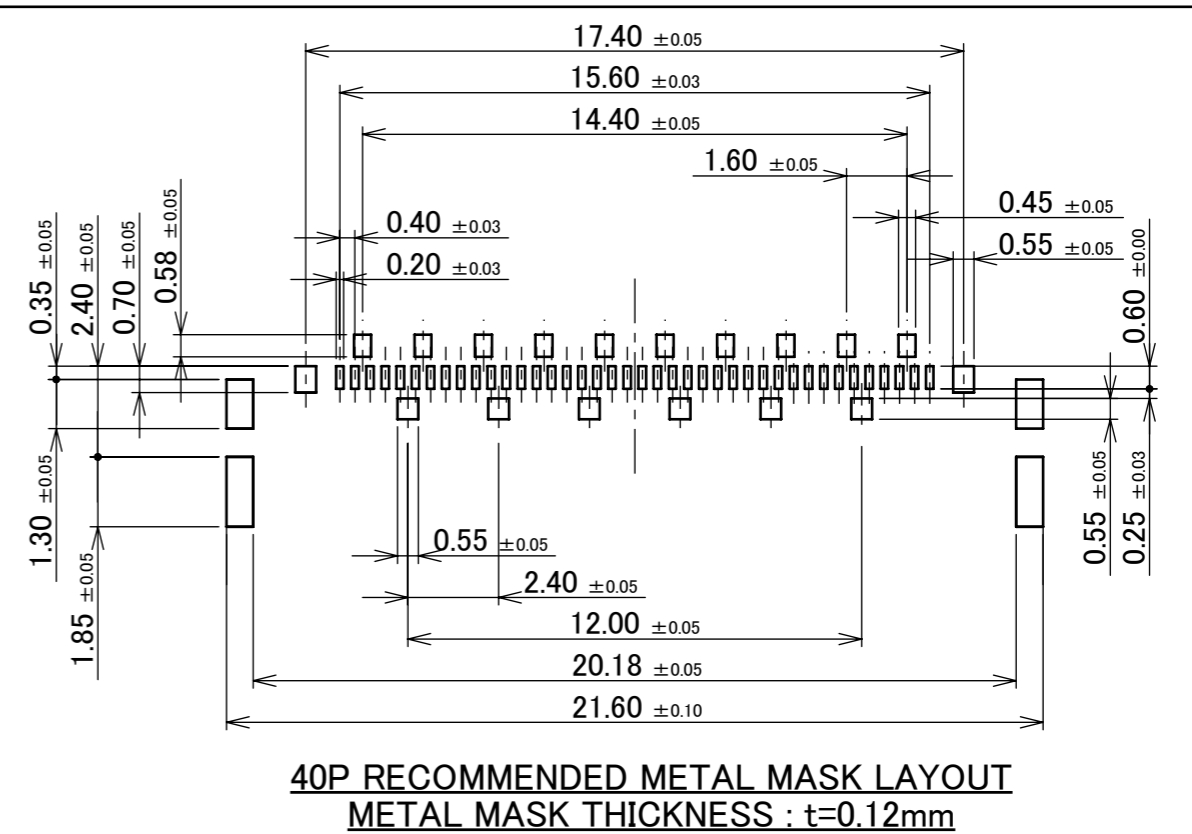
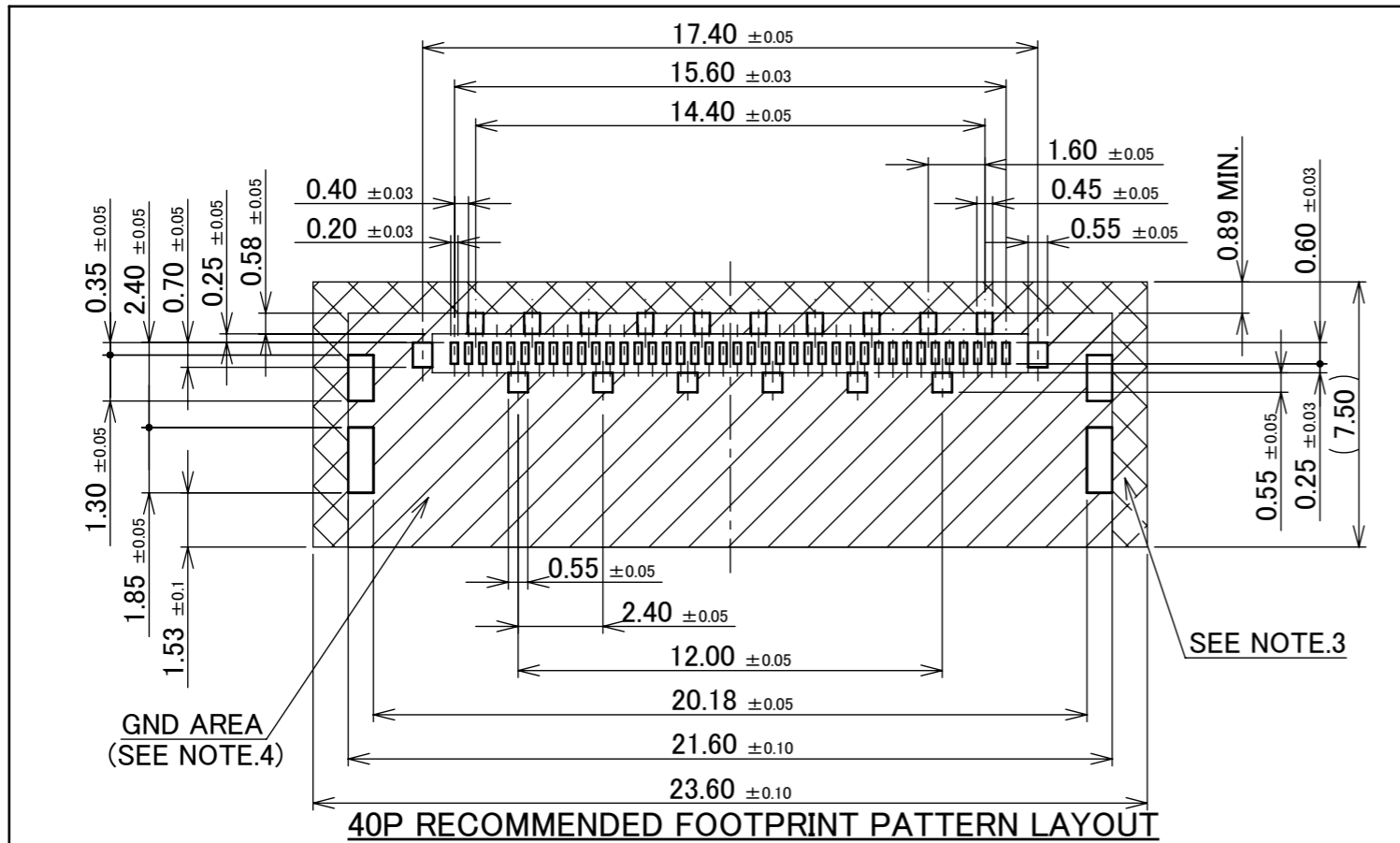
30P RECOMMENDED FOOTPRINT PATTERN LAYOUT



**30P RECOMMENDED METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm**

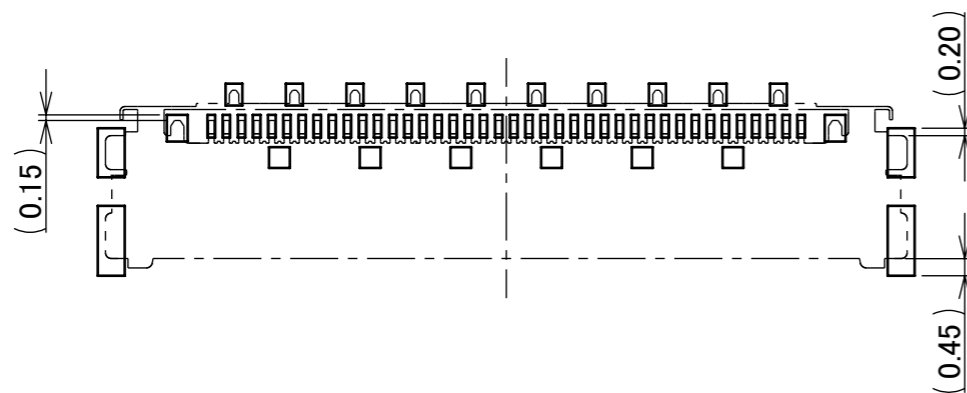
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY	
				⊕	R1		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5	TITLE		SCALE	I-PEX
GENERAL TOLERANCE.				CABLIN [®] -CA II		5:1	
DWG.	DATE			RECEPTACLE ASSEMBLY		UNIT	
CHK.						mm	
APP.				DWG. No.	20682	SIZE	SHEET
						A3	4/7
							REV.
							14

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

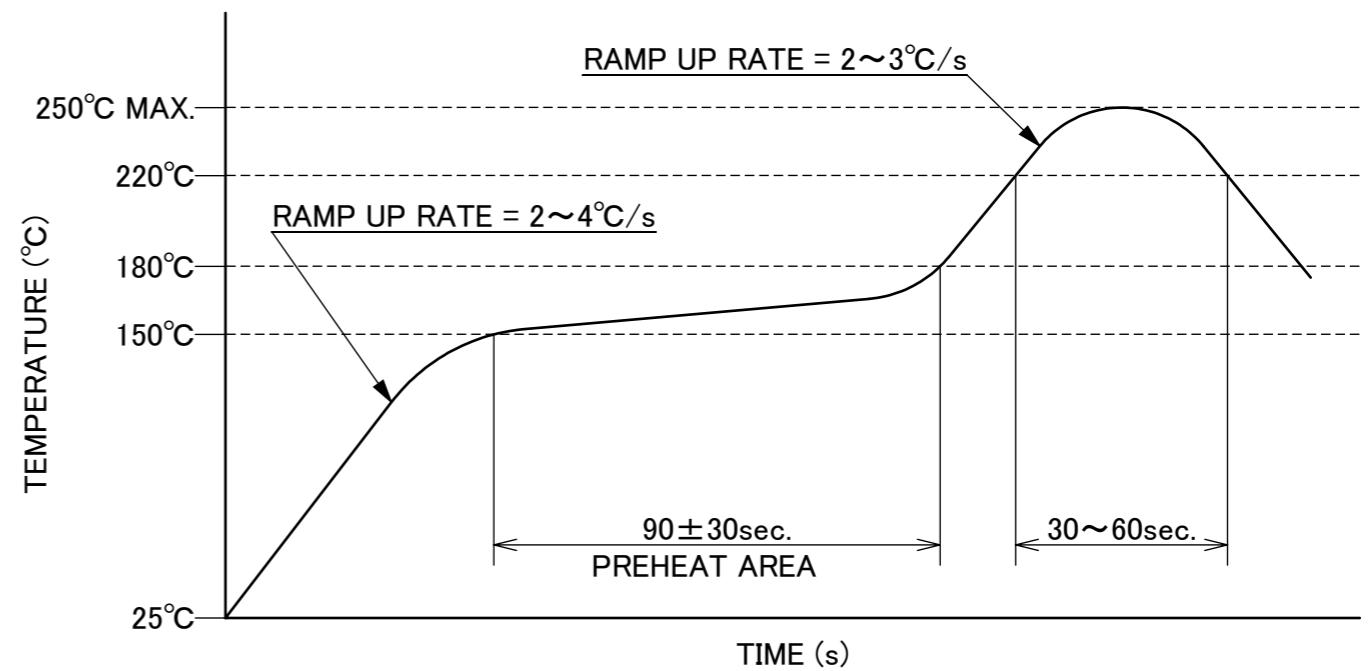


NOTES.
3. DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
4. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R1	CUSTOMER COPY	
	6 MAX.	±0.2	30 OVER 120 MAX.				
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX
DWG.	DATE			CABLIN [®] -CA II		5:1	
CHK.				RECEPTACLE ASSEMBLY		UNIT	
APP.				DWG. No. 20682		mm	
				SIZE	SHEET	REV.	
				A3	5/7	14	



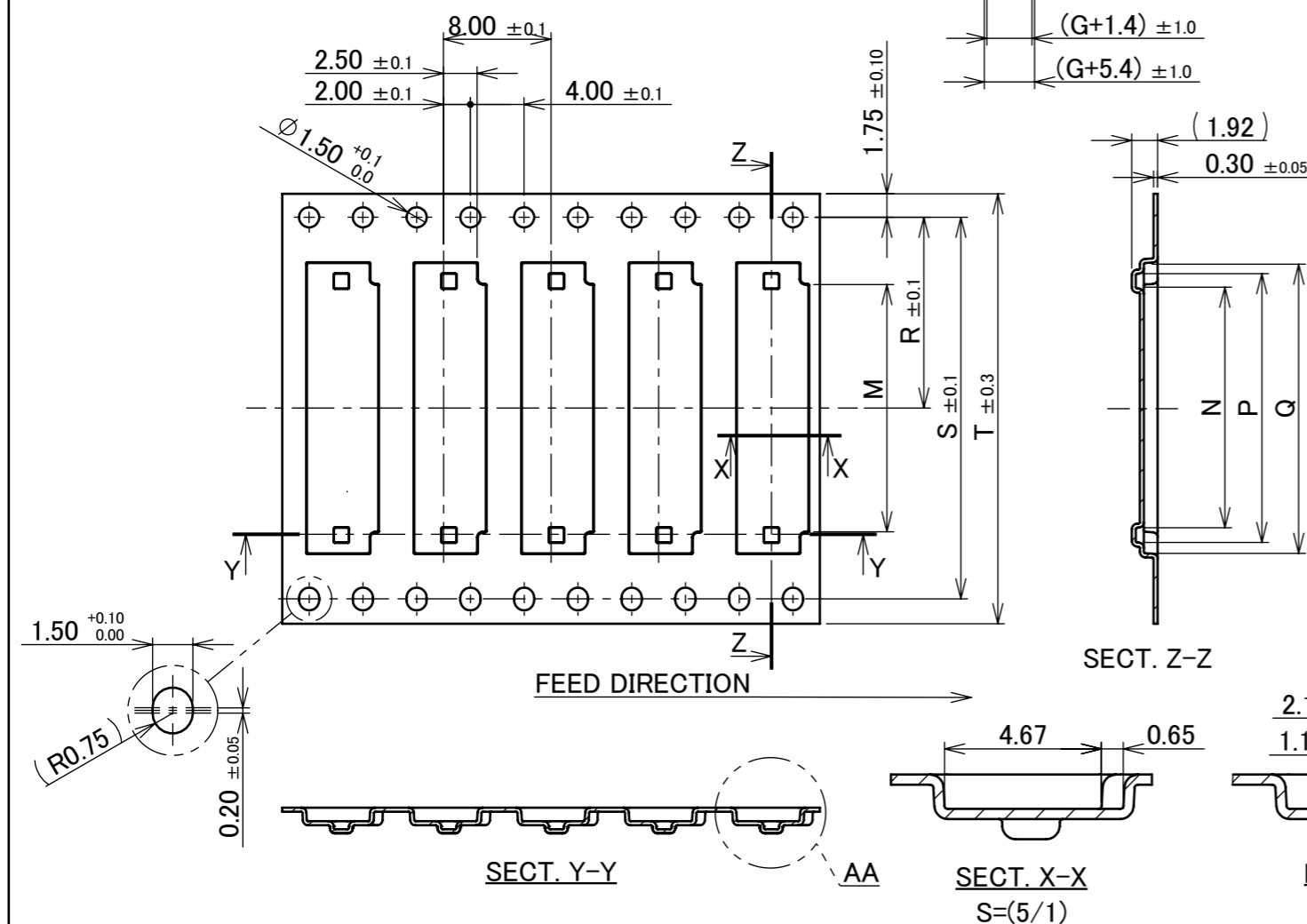
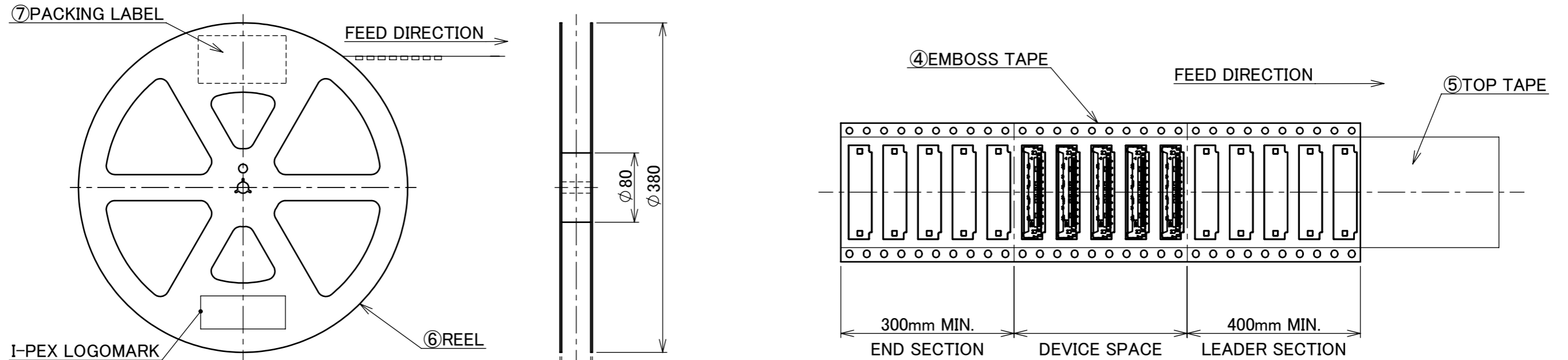
CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R1	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLIN [®] -CA II RECEPTACLE ASSEMBLY	SCALE 5:1 UNIT mm			
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20682	SIZE A3	SHEET 6/7	REV. 14

PART NO.	G	M	N	P	Q	R	S	T	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20682-020E-02	24.00	7.60	9.80	12.00	13.60	11.50	-	24.00	5500 / REEL	5 / CARTON = 27500
20682-030E-02	32.00	14.40	13.80	16.00	17.60	14.20	28.40	32.00		4 / CARTON = 22000
20682-040E-02	32.00	18.40	17.80	20.00	21.60	14.20	28.40	32.00		3 / CARTON = 16500
20682-050E-02	44.00	22.40	21.80	24.00	25.60	20.20	40.40	44.00		



- NOTES.
- TAPING SPECIFICATION FOLLOWS JIS C 0806 (IEC 60286-3).
 - MAKE EMPTY SECTION OF LEADER AND END ON EACH END OF THE TAPE.
 - TOP TAPE SHALL NOT STICK OUT FROM EMBOSS TAPE.
 - TOP TAPE SHALL NOT COVER FEED HOLE.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
7	PACKING LABEL	-	-
6	REEL	PS	ANTI-STATIC TYPE BLACK
5	TOP TAPE	PET t=0.062 TRANSPARENCY	ANTI-STATIC TYPE
4	EMBOSS TAPE	PS t=0.3 TRANSPARENCY	ANTI-STATIC TYPE

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R1	
GENERAL TOLERANCE.				TITLE	SCALE	I-PEX
DWG.	DATE	CABLIN® -CA II RECEPTACLE ASSEMBLY		5:1		
CHK.	DWG. No.		20682	SIZE	SHEET	REV.
APP.	A3		7/7	14		