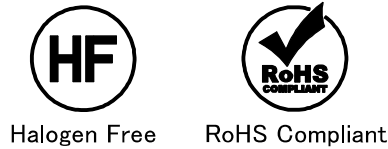
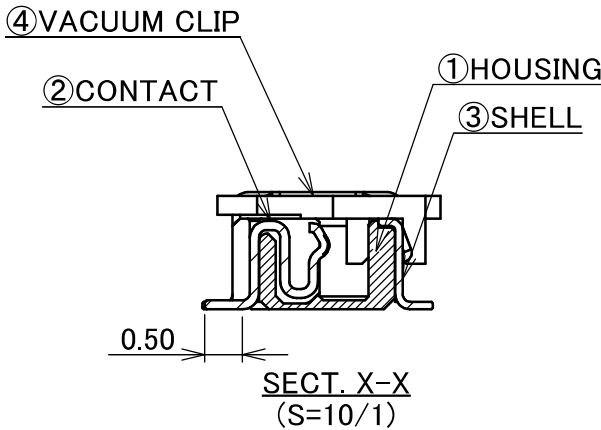
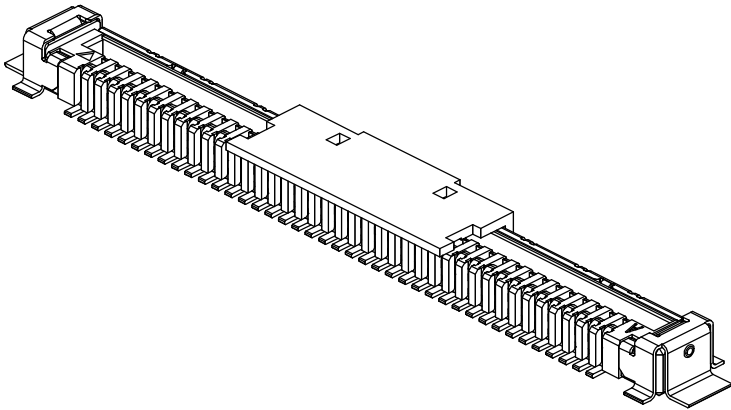
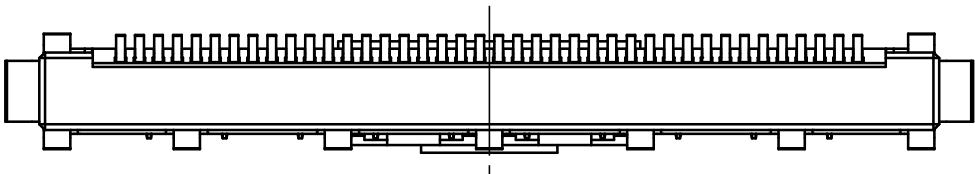
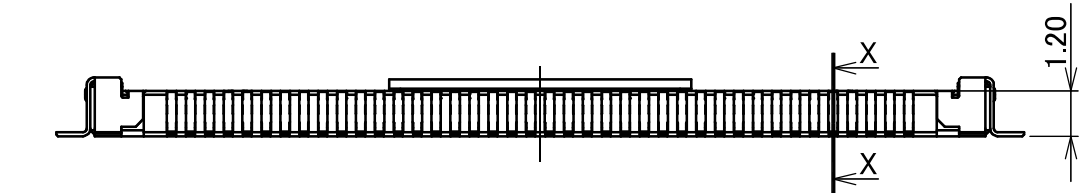
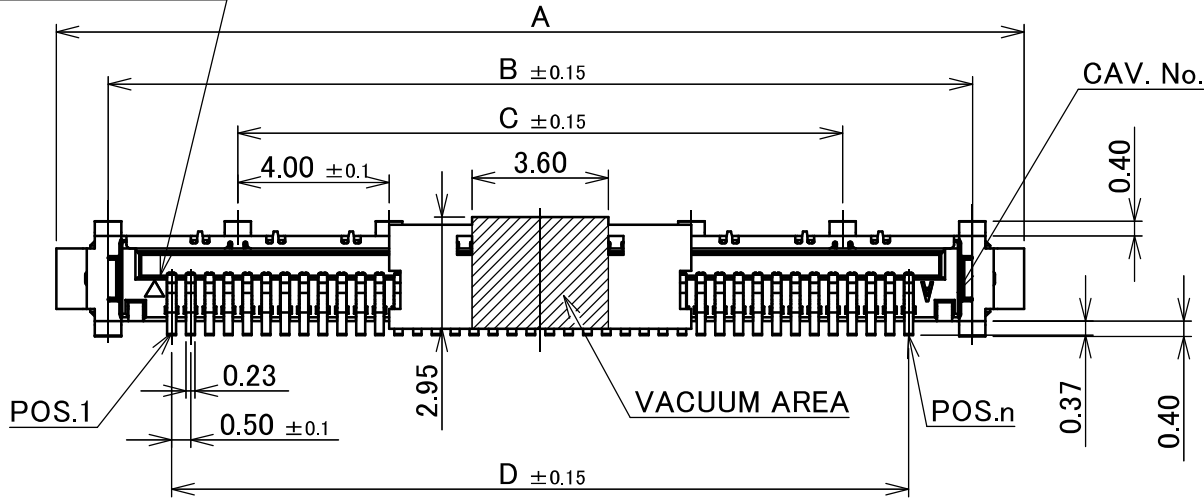


Recommended P/N		20439-0**E-01			
PART NO.	Pos.	A	B	C	D
20439-030E-*1	30	20.60	17.86	12.00	14.50
20439-040E-*1	40	25.60	22.86	16.00	19.50
20439-050E-*1	50	30.60	27.86	20.00	24.50



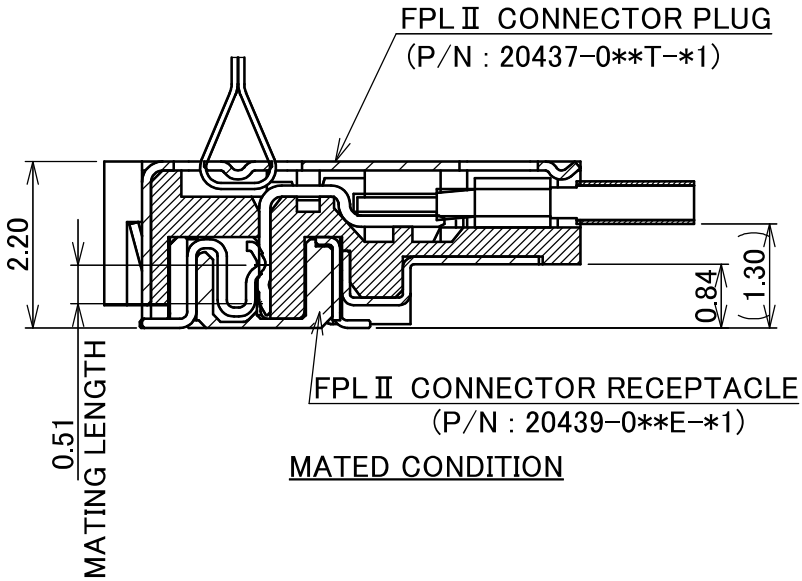
PART NO.	CONTACT FINISH (MATING SIDE)
20439-0**E-01	Au 0.1 μ m MIN.
20439-0**E-11	Au 0.3 μ m MIN.

DATUM PIN MARK



MATING COMBINATION TABLE

Pos.	PLUG PART NO.	RECEPTACLE PART NO.
30P	20437-030T-*1	20439-030E-*1
40P	20437-040T-*1	20439-040E-*1
50P	20437-050T-*1	20439-050E-*1



4	VACUUM CLIP	LCP	UL94V-0, BEIGE
3	SHELL	PHOSPHOR BRONZE	Sn(NO POLISH) 0.50 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BRONZE	PART NO. 20439-0**E-0* MATING AREA : Au 0.10 μ m MIN. OVER Ni 1.00 μ m MIN. OTHER AREA : Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN. PART NO. 20439-0**E-1* MATING AREA : Au 0.30 μ m MIN. OVER Ni 1.00 μ m MIN. OTHER AREA : Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

25	Z250837	Y.I	2025/05/28	M.T	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY		
24	Z240753	W.L	2024/06/17	M.T	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R4			
23	Z231014	H.U	2023/09/26	T.M	GENERAL TOLERANCE.				TITLE FPL™II RECEPTACLE ASSEMBLY	SCALE	I-PEX		
22	Z210569	T.M	2021/06/01	H.I	DWG.	DATE		5:1					
21	Z191305	Y.Sasa	2021/06/01	H.I	K.Tanaka		2007/04/16			UNIT			
20	Z190870	Y.Sasa	2019/07/01	H.I	Y.Hashimoto					mm			
REV.	ECN	BY	DATE	APP.	APP.				DWG. No.	20439	SIZE	SHEET	REV.
REVISION RECORD					T.Harada				20439		A3	1/5	25



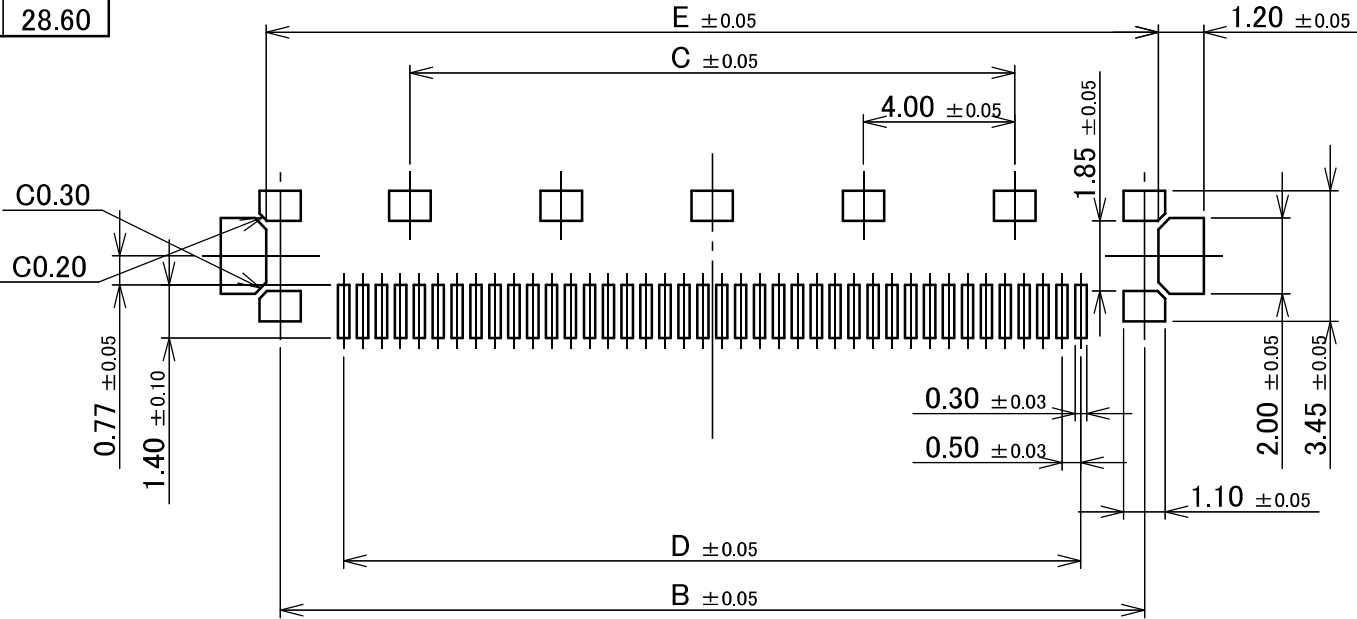
CAUTION

VISIT OUR WEBSITE FOR LATEST VERSIONS OF INSTRUCTION MANUAL NO. HIM-09007 TO HANDLE THE PRODUCT PROPERLY AND SAFELY.

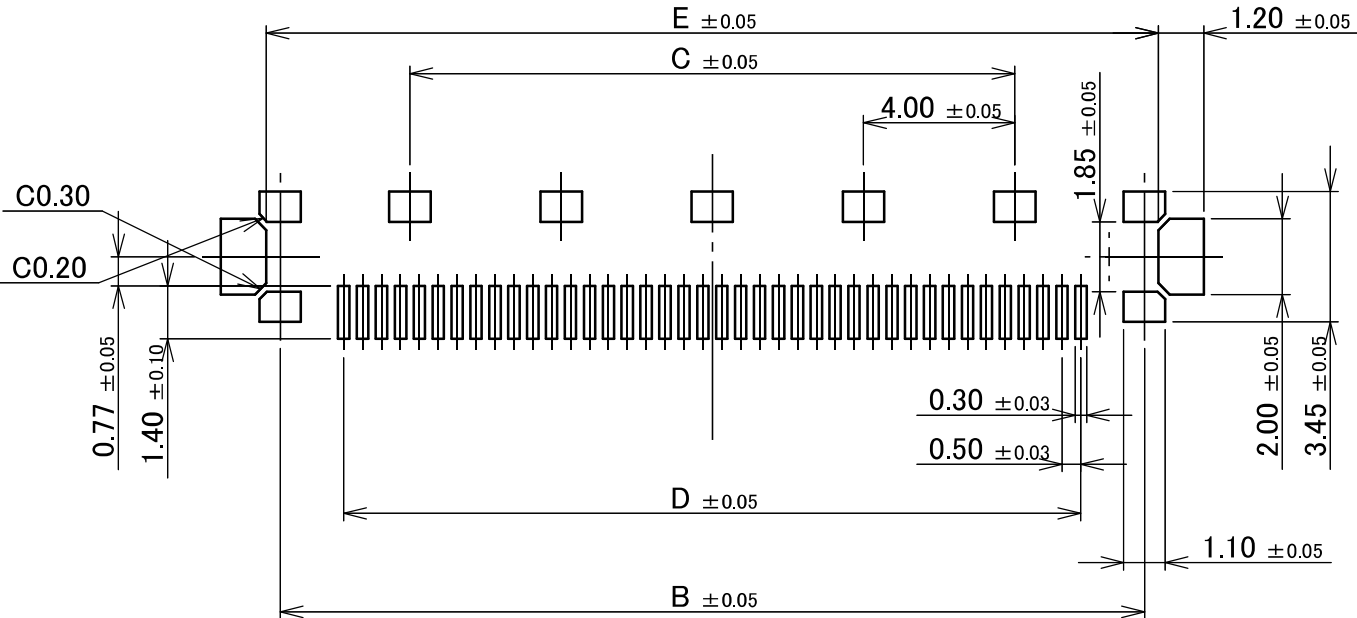
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG #40, 38, 36, 34, 32 DISCRETE WIRE : AWG #36, 34, 32 TWINAXIAL CABLE : AWG #40
RATED VOLTAGE	100V AC (PER CONTACT PIN)
RATED CURRENT (FOR CONTACT)	0.3A AC/DC [AWG #40] PER CONTACT PIN / UP TO 50 CONTACTS 0.6A AC/DC [AWG #38] PER CONTACT PIN / UP TO 6 CONTACTS 0.8A AC/DC [AWG #36] PER CONTACT PIN / UP TO 4 CONTACTS 1.0A AC/DC [AWG #34, 32] PER CONTACT PIN / UP TO 7 CONTACTS TESTING BY REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 358K (−40°C TO +85°C)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE	INITIAL : 145mohm MAX.(AWG #32) / AFTER TEST : $\triangle$ 40mohm MAX. 185mohm MAX.(AWG #34) 210mohm MAX.(AWG #36) 335mohm MAX.(AWG #38) 575mohm MAX.(AWG #40)
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 TEST)	30P : 50.0N MAX. 40P : 60.0N MAX. 50P : 70.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 5.0N MIN. 40P : 6.0N MIN. 50P : 7.0N MIN.
CABLE RETENTION FORCE	30.0N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1383
TEST REPORT	TR-07048
PACKING STANDARD	300-583
INSTRUCTION MANUAL	HIM-09007
ASSEMBLY MANUAL	ASM-07005
APPEARANCE CRITERIA No.	QLS-A***

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R4	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE FPL™II RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					UNIT		
CHK.						mm		
APP.						DWG. No.	20439	SIZE A3

PART NO.	Pos.	B	C	D	E
20439-030E-*1	30	17.86	12.00	14.50	18.60
20439-040E-*1	40	22.86	16.00	19.50	23.60
20439-050E-*1	50	27.86	20.00	24.50	28.60

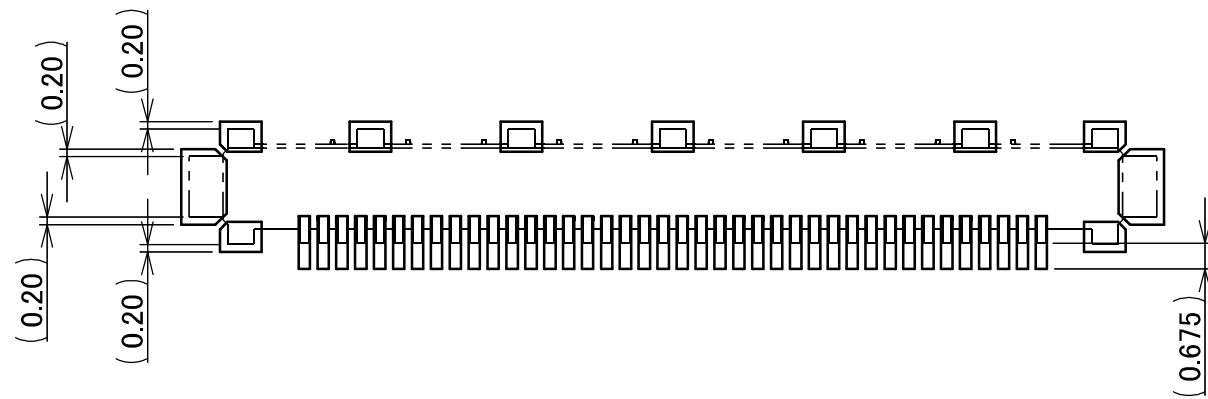


RECOMMENDED FOOTPRINT PATTERN LAYOUT

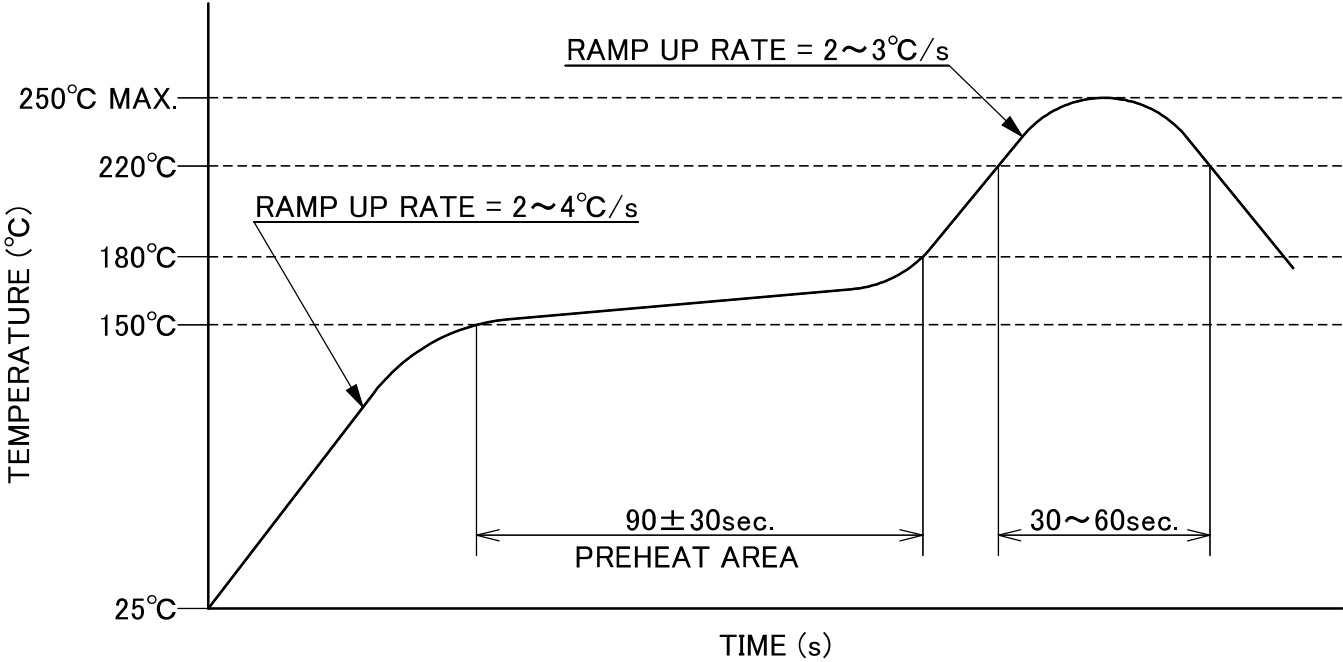


RECOMMENDED METAL MASK LAYOUT
METAL MASK THICKNESS : t=0.12mm

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R4	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE FPL™ II RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20439		SIZE	SHEET	REV.
						A3	3/5	25



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. R4	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE FPL™ II RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
						mm		
APP.				DWG. No.		SIZE	SHEET	REV.
				20439		A3	4/5	25

