

PART NO.	Pos.	A	B	C	D	U
20455-020E-#2	20	9.50	11.30	16.25	14.47	10.20
20455-030E-##	30	14.50	16.30	21.25	19.47	15.20
20455-040E-##	40	19.50	21.30	26.25	24.47	20.20
20455-050E-##	50	24.50	26.30	31.25	29.47	25.20

P/N:20455-0 ** E-##

SEE TABLE 1.

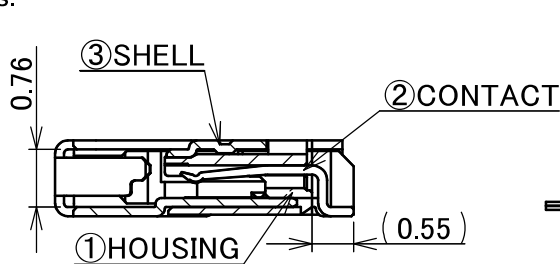
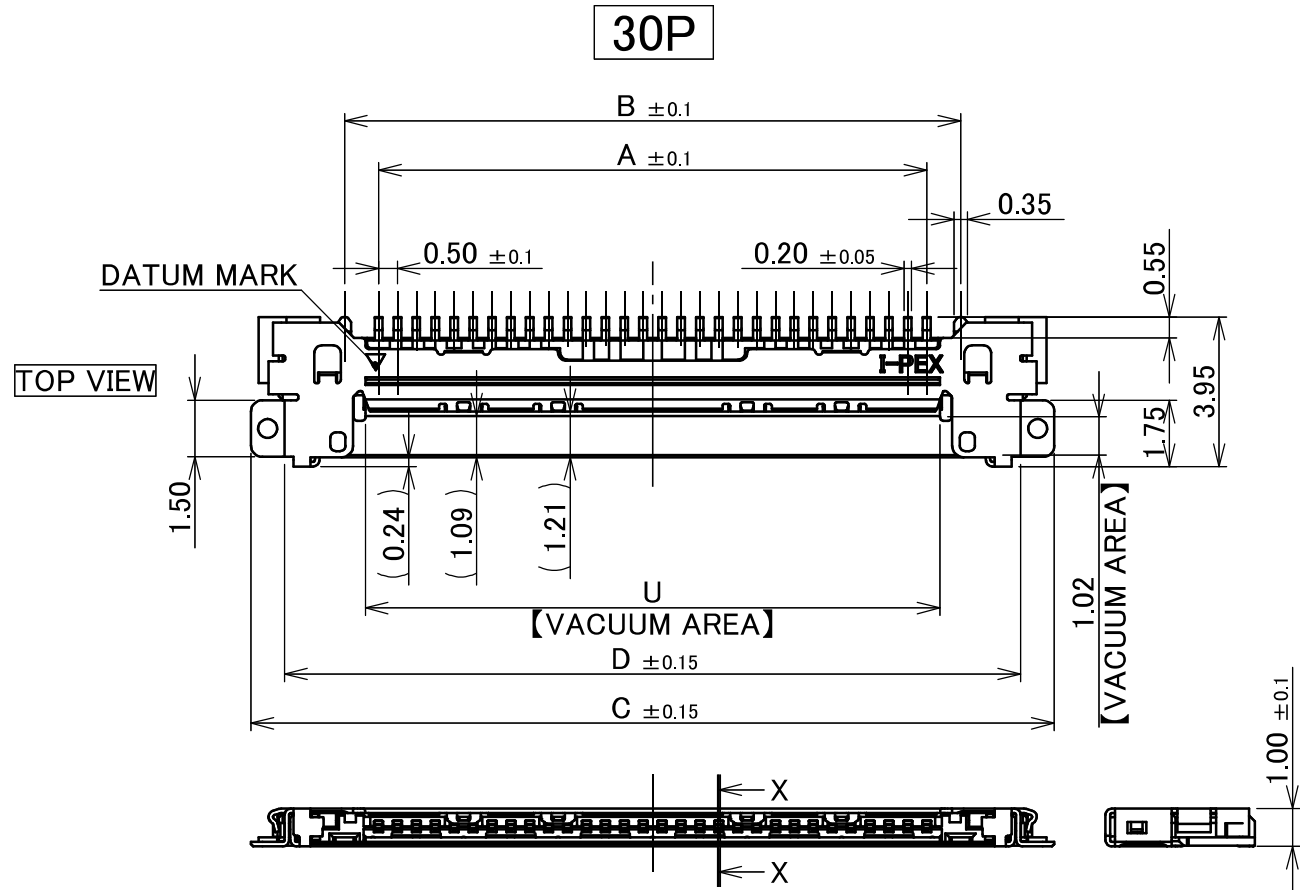
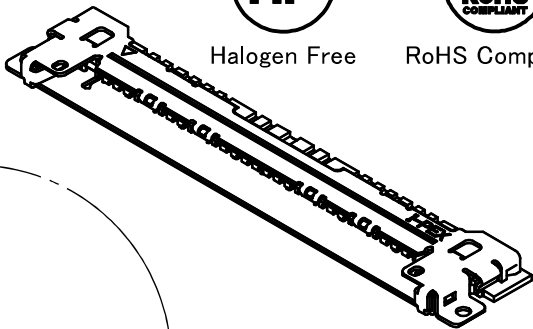
Pos.



Halogen Free



RoHS Compliant



SECT.X-X
(S=10:1)

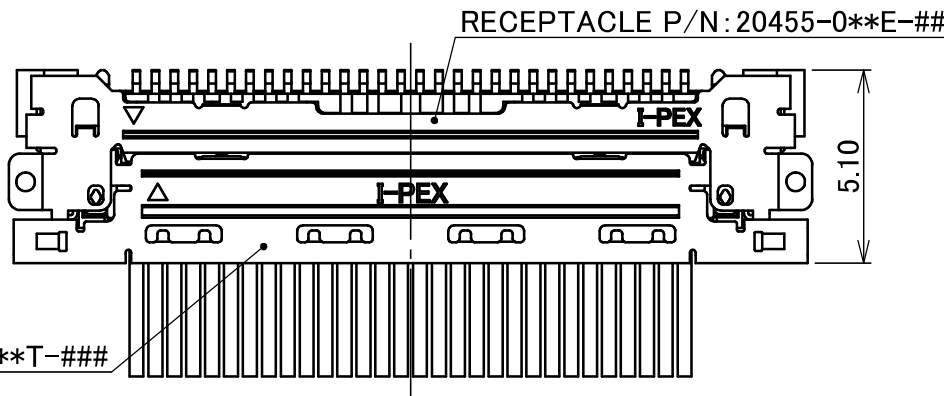
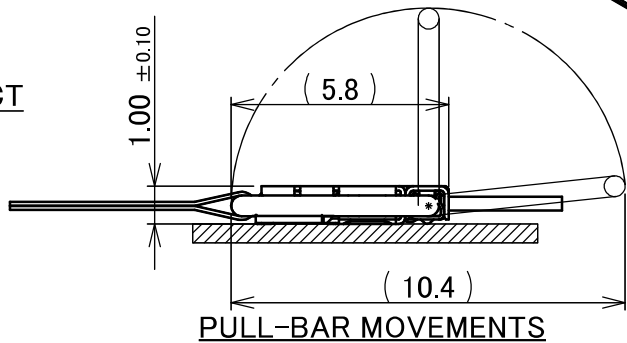
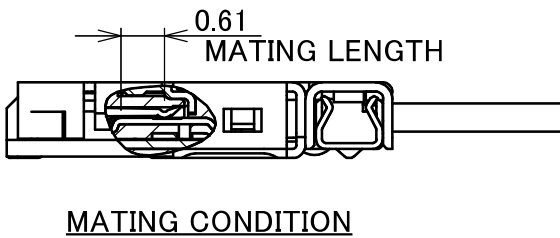


TABLE 1

PART NO.	DATUM MARK	CONTACT FINISH	SHELL FINISH
20455-0**E-02	WITH	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.	Au 0.02 μ m MIN. OVER Ni 1.00 μ m MIN.
20455-0**E-12	WITHOUT	SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.	
20455-0**E-66	WITH	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN.	Au 0.01 μ m MIN. OVER Ni 1.00 μ m MIN.
20455-0**E-76	WITHOUT	SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.	

3	SHELL	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
2	CONTACT	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

35	Z250907	Y.I	2025/06/16	M.T	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY		
34	Z250299	K.Ta	2025/02/26	T.M	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R9			
33	Z241819	T.Ono	2024/12/18	T.M	GENERAL TOLERANCE.				TITLE CABLINE®-VS RECEPTACLE ASSEMBLY	SCALE	I-PEX		
32	Z241762	T.Ono	2024/12/10	T.M	DWG.	DATE		5:1					
31	Z231013	T.Ono	2023/09/21	T.M	H.Ikari2007/09/27		UNIT						
30	Z220450	T.M	2022/04/21	H.I	CHK.	—				mm			
REV.	ECN	BY	DATE	APP.	APP.	DWG. No.				SIZE	SHEET	REV.	
REVISION RECORD					E.Kawabe				20455		A3	1/7	35

PART NO.	Pos.	A	B	C	D	H	J	U
20455-A20E-##	20	9.50	11.30	16.25	14.47	15.32	15.84	10.20

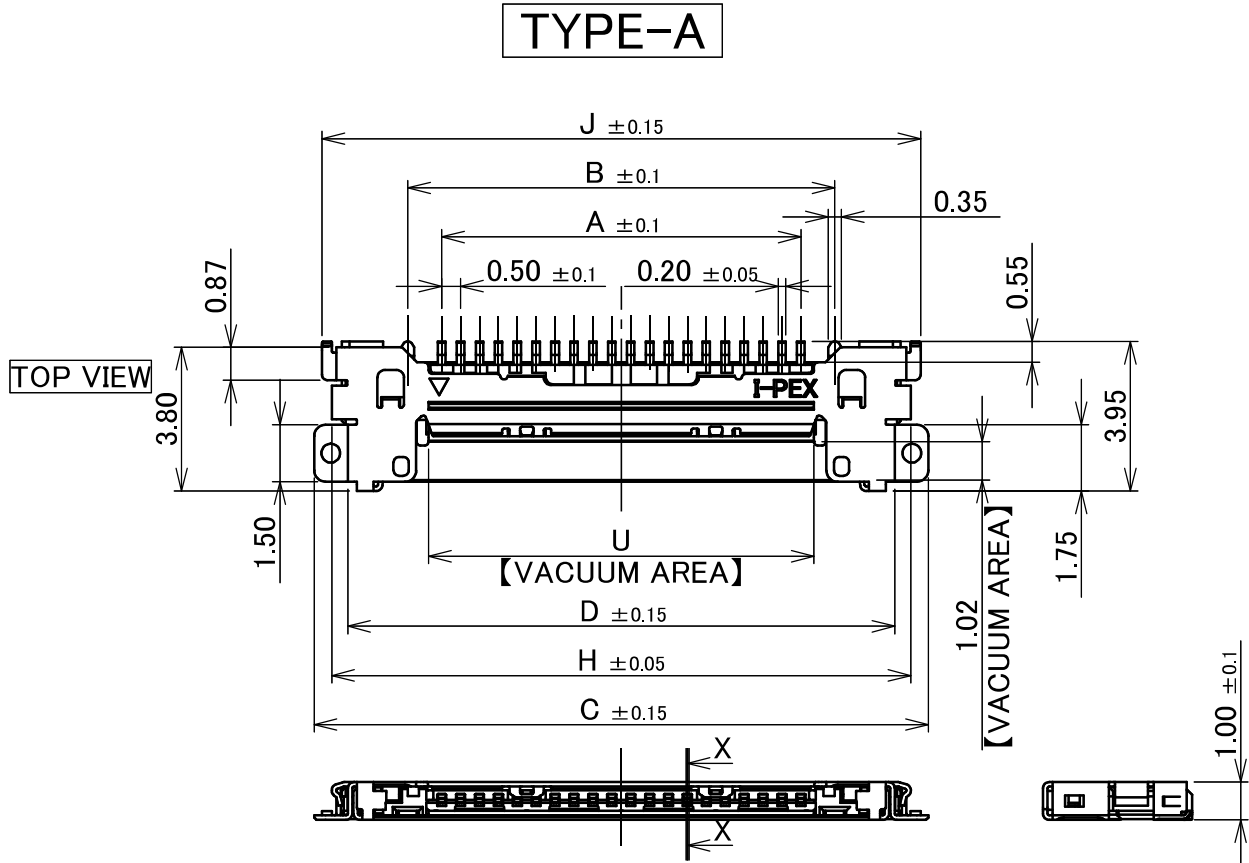
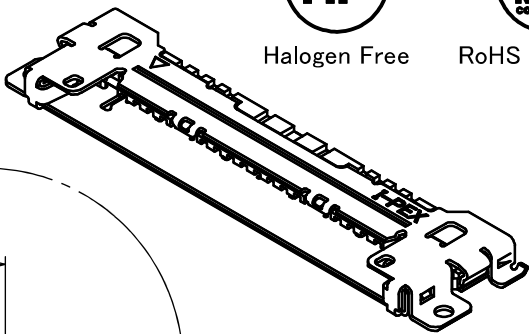
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A : TYPE-A
SEE TABLE 2.



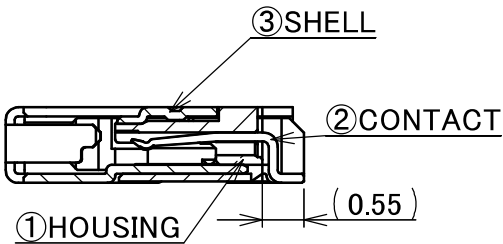
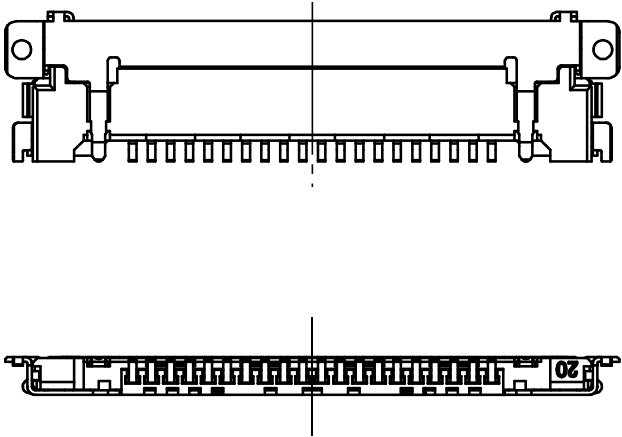
Halogen Free



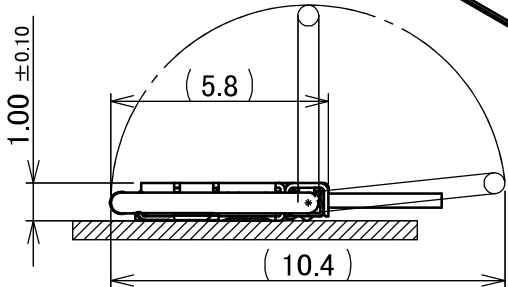
RoHS Compliant



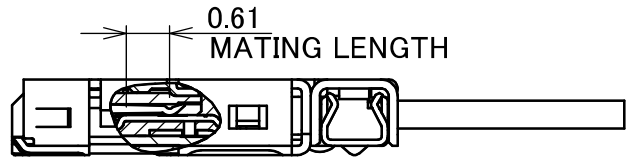
BOTTOM VIEW



SECT X-X
S= 10 : 1



PULL-BAR MOVEMENTS



MATING CONDITION

PLUG P/N: 20453-020T-##

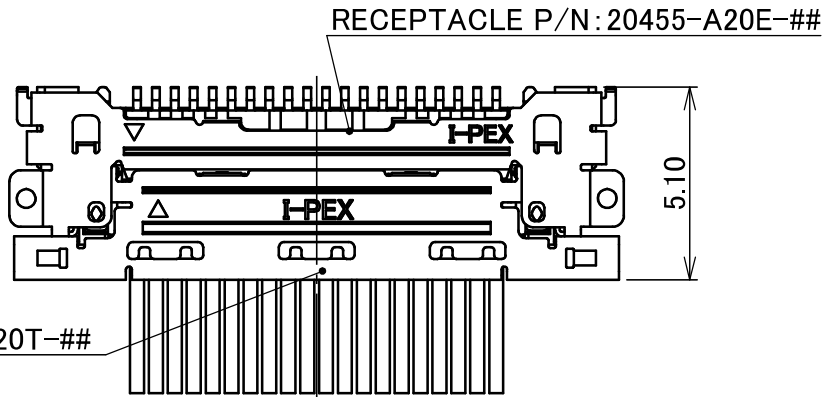


TABLE 2

PART NO.	DATUM MARK	CONTACT FINISH	SHELL FINISH
20455-A20E-02	WITH	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.	Au 0.02 μ m MIN. OVER Ni 1.00 μ m MIN.
20455-A20E-12	WITHOUT	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.	Au 0.01 μ m MIN. OVER Ni 1.00 μ m MIN.
20455-A20E-66	WITH	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.	Au 0.01 μ m MIN. OVER Ni 1.00 μ m MIN.
20455-A20E-76	WITHOUT	CONTACT AREA Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.	Au 0.01 μ m MIN. OVER Ni 1.00 μ m MIN.

3	SHELL	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
2	CONTACT	PHOSPHOR BRONZE	SEE ABOVE TABLE 1.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R9	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLINE® –VS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20455		SIZE	SHEET	REV.
						A3	2/7	35

FOR CABLINE-VS PLUG CABLE ASSEMBLY (DWG NO. 20453)

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG #44, 42, 40, 38, 36 DISCRETE WIRE : AWG #36, 34, 32 TWINAXIAL CABLE : AWG #40
RATED 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.
RATED CURRENT (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 14 CONTACTS 0.8A AC/DC [AWG #36] PER CONTACT PIN/UP TO 10 CONTACTS 1.0A AC/DC [AWG #34] PER CONTACT PIN/UP TO 6 CONTACTS 1.0A AC/DC [AWG #32] PER CONTACT PIN/UP TO 6 CONTACTS TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPURECHER RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 358K(−40°C TO +85°C)
OPERATING HUMIDITY	85% R.H. MAX.
CONTACT RESISTANCE	INITIAL : 140mohm MAX.(AWG #32) / AFTER TEST : $\triangle$ 40mohm MAX. 180mohm MAX.(AWG #34) 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 TEST)	20P : 9.45N MAX. 30P : 12.15N MAX. 40P : 16.20N MAX. 50P : 20.25N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	20P : 2.0N MIN. 30P : 3.0N MIN. 40P : 4.0N MIN. 50P : 5.0N MIN.
CABLE RETENTION FORCE	20P : 9.80N MIN. 30P : 14.70N MIN. 40P : 19.60N MIN. 50P : 24.50N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1427
TEST REPORT	TR-08047 (20455-***E-#2) TR-13084 (20455-***E-#6, 20455-0**E-#8)
PACKING STANDARD	300-643
INSTRUCTION MANUAL	HIM-08004
APPEARANCE CRITERIA NO.	QLS-A***

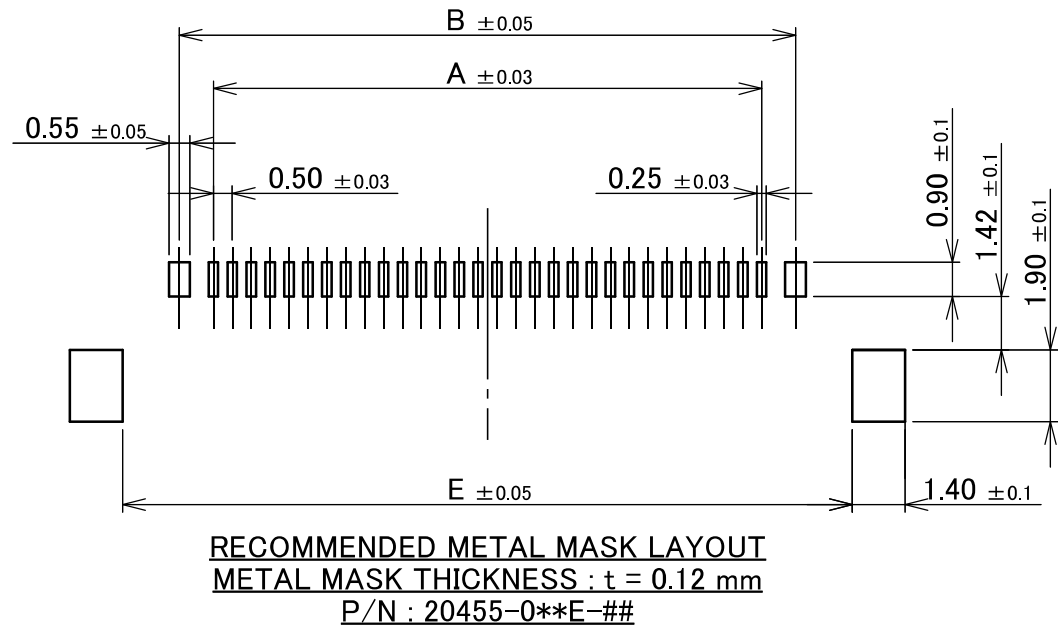
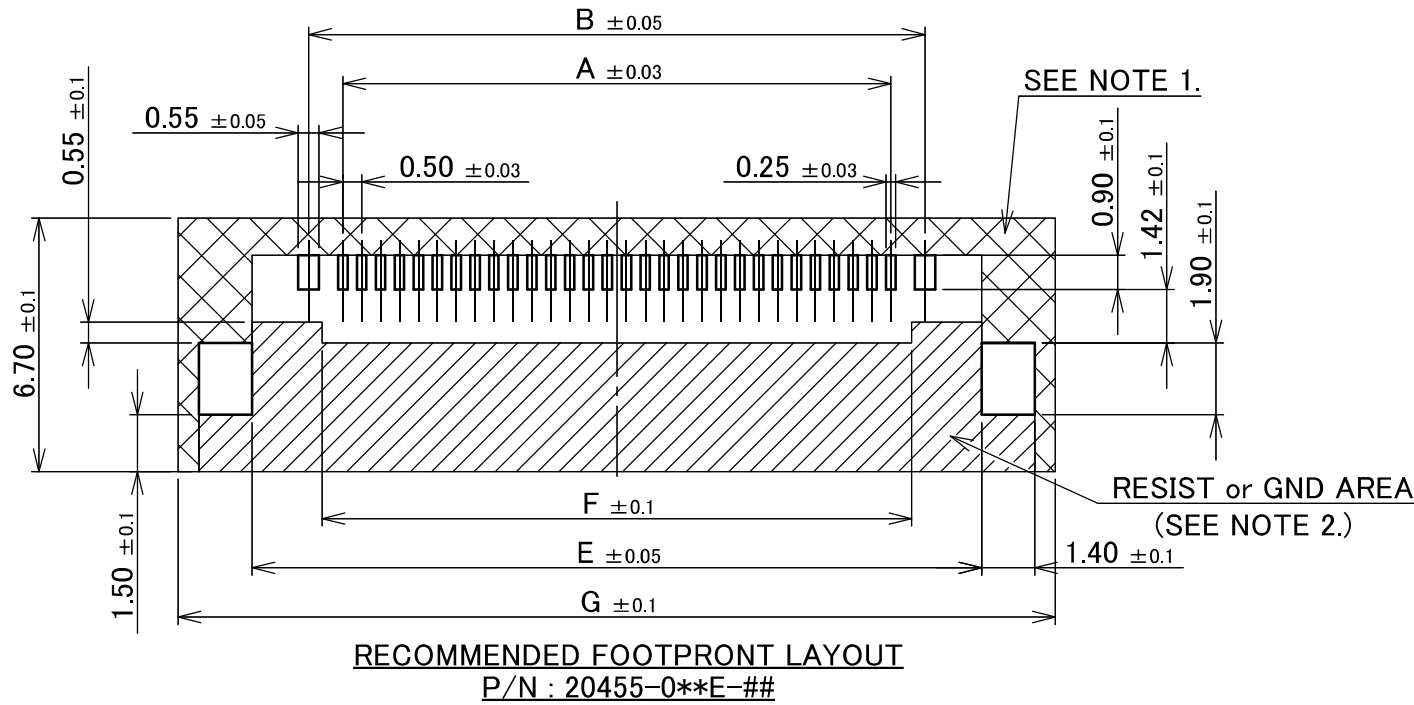
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R9	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLINE®-VS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					UNIT		
CHK.						mm		
APP.						SIZE		
				DWG. No.	20455	A3	3/7	35

FOR CABLINE-VSF PLUG SHELL ASSEMBLY (DWG NO. 20645)

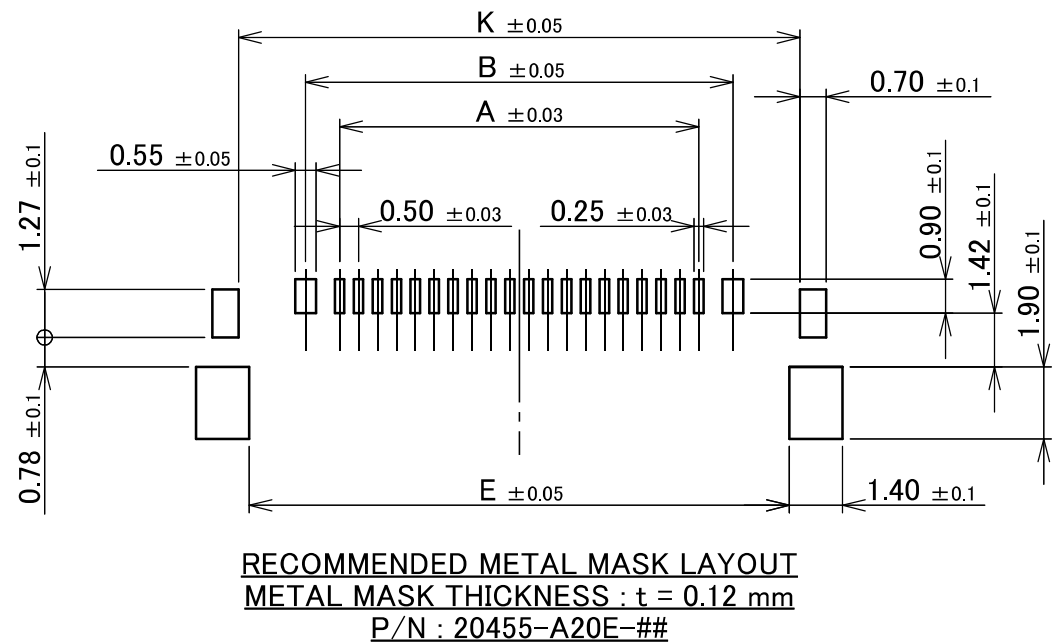
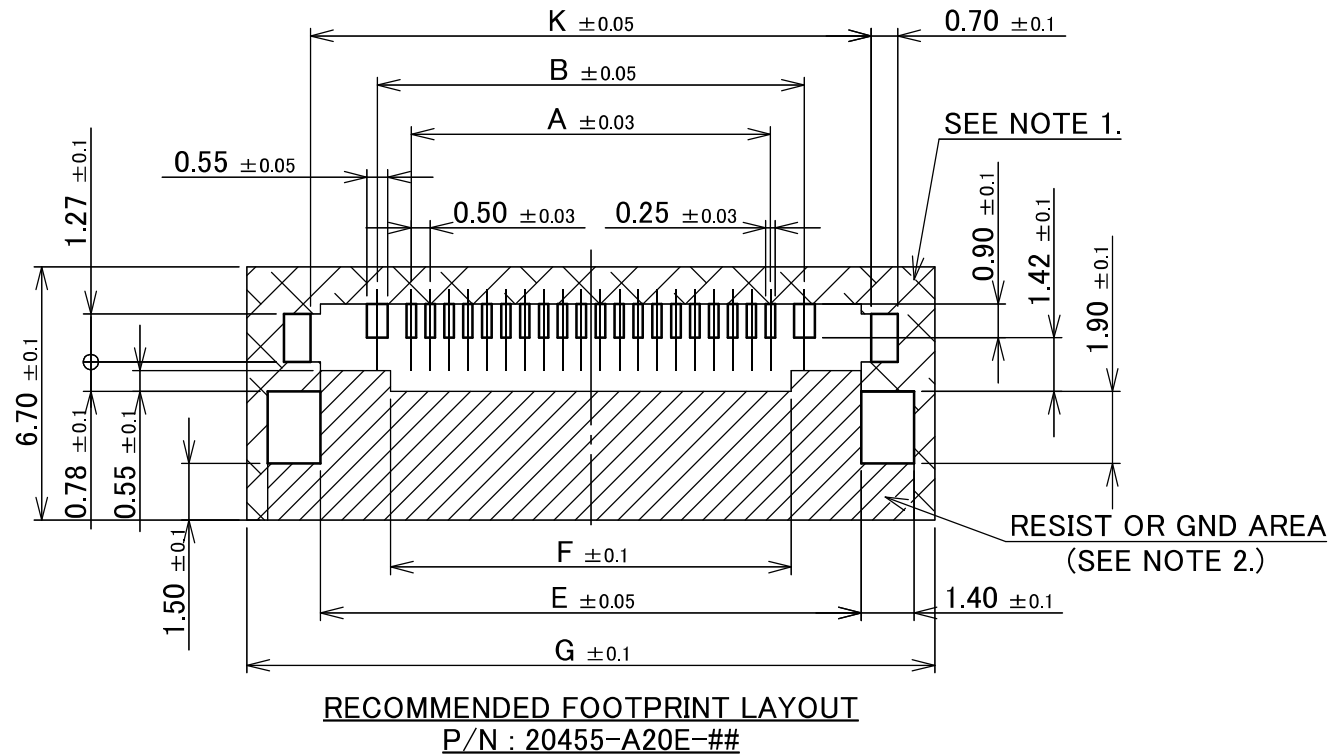
ITEMS	SPECIFICATION
RATED VOLTAGE	100V AC (PER CONTACT PIN)
RATED CURRENT (FOR CONTACT)	0.5A AC/DC (PER CONTACT PIN) ※AVAILABLE UP TO 20PIN 0.3A AC/DC (PER CONTACT PIN) ※AVAILABLE FOR ALL PIN ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233 TO 358K(−40℃ TO +85℃)
OPERATING HUMIDITY	85% R.H. MAX.
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 60mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.
GROUND SHELL RESISTANCE	INITIAL : 60mohm 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 : 24.0N MAX. 40P : 32.0N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	30P : 1.1N MIN. 40P : 1.4N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1878
TEST REPORT	TR-14095 (20455-0**E-#2#) TR-17048 (20455-0**E-#9#)
PACKING STANDARD	300-643
INSTRUCTION MANUAL	HIM-13010
APPEARANCE CRITERIA NO.	QLS-A***

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R9	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLINE®-VS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					UNIT		
CHK.						mm		
APP.						DWG. No.	SIZE	SHEET
				20455	A3	4/7	35	

PART NO.	Pos.	A	B	E	F	G	H	J	K
20455-#20E-##	20	9.50	11.30	14.30	10.60	18.20	15.32	15.84	14.84
20455-030E-##	30	14.50	16.30	19.30	15.60	23.20	-	-	-
20455-040E-##	40	19.50	21.30	24.30	20.60	28.20	-	-	-
20455-050E-##	50	24.50	26.30	29.30	25.60	33.20	-	-	-

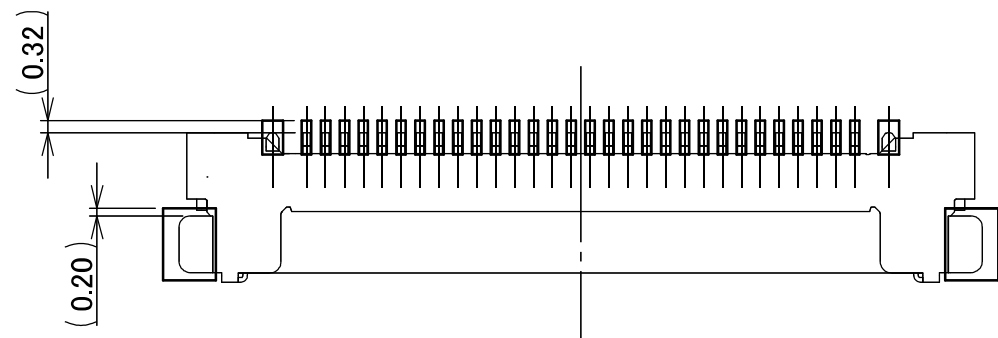


TYPE-A



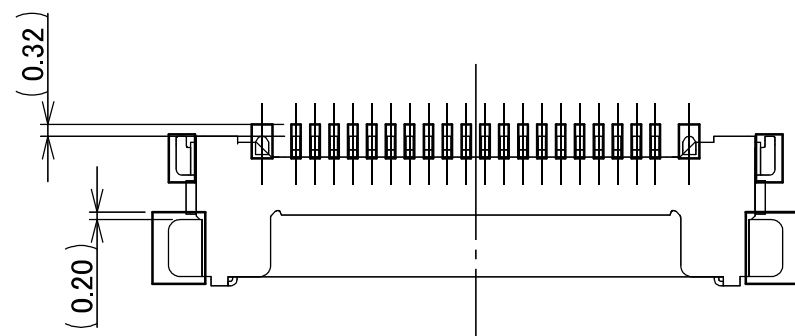
- NOTES.
1. IN CASE OF PLUG WITH PULL-BAR, DO NOT MOUNT ANOTHER COMPONENT IN THIS AREA.
 2. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R9			
GENERAL TOLERANCE.				TITLE CABLINE®-VS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	SIZE	SHEET	REV.	
				20455	A3	5/7	35	

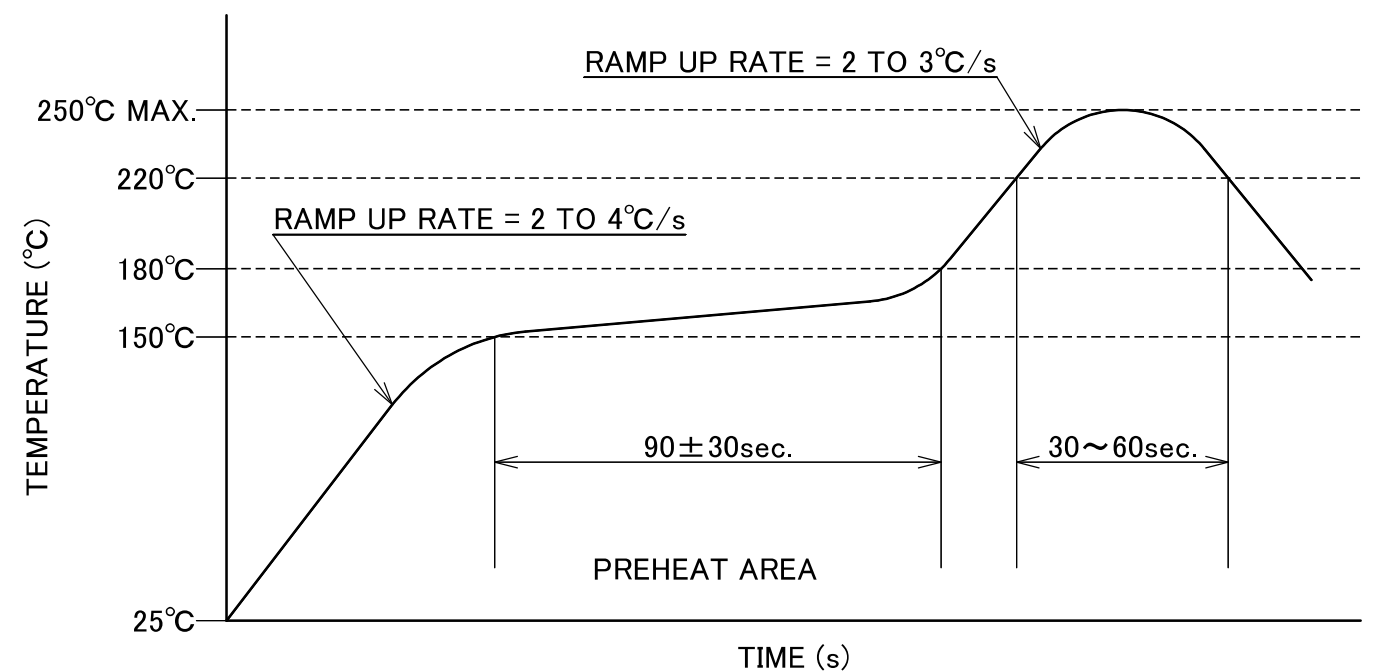


CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN
P/N : 20455-0**E-##

TYPE-A



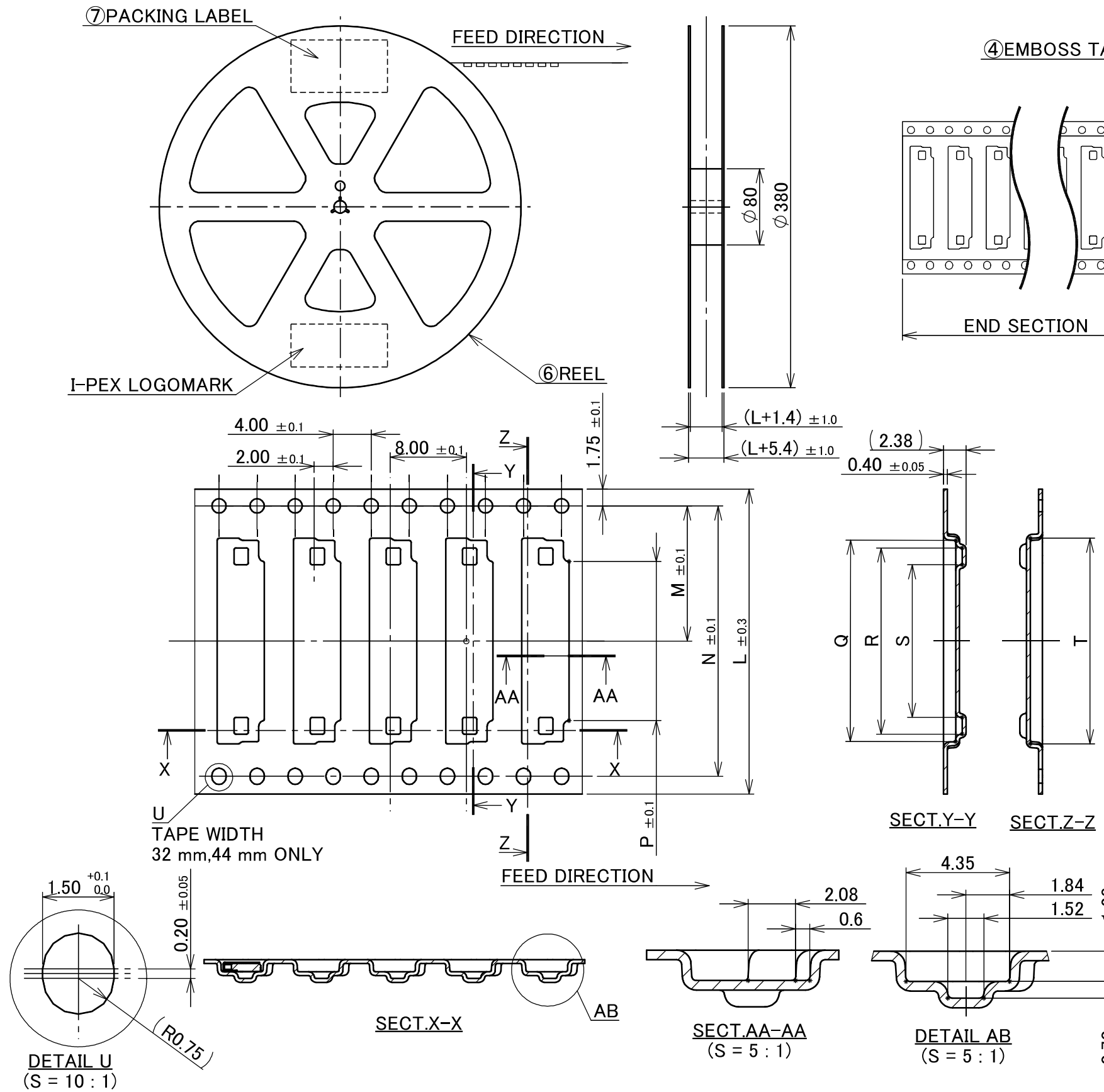
CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN
P/N : 20455-A20E-##



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. R9	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLINE®-VS RECEPTACLE ASSEMBLY	SCALE	I-PEX		
DWG.	DATE				5:1			
CHK.					UNIT			
			mm					
APP.				DWG. No.	SIZE	SHEET	REV.	
				20455	A3	6/7	35	

PART NO.	L	M	N	P	Q	R	S	T	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20455-#20E-##	24.0	11.5	-	11.7	16.2	14.6	11.1	16.6	5000 / REEL	5 REELS / CARTON = 25000
20455-030E-##	32.0	14.2	28.4	16.7	21.2	19.6	16.1	21.6		3 REELS / CARTON = 15000
20455-040E-##	44.0	20.2	40.4	21.7	26.2	24.6	21.1	26.6		3 REELS / CARTON = 15000
20455-050E-##	44.0	20.2	40.4	26.7	31.2	29.6	26.1	31.6		3 REELS / CARTON = 15000



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

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

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R9	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLIN® –VS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					2:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20455	SIZE	SHEET	REV.
						A3	7/7	35