

Recommended P/N 20525-0\*\*E-02(12~60P) 20525-210E-02(10P)

PART NO.	POS.	A	B	C	D
20525-#10E-02	10	5.40	3.60	8.43	9.20
20525-#12E-02	12	6.20	4.40	9.23	10.00
20525-#20E-02	20	9.40	7.60	12.43	13.20
20525-#30E-02	30	13.40	11.60	16.43	17.20
20525-#40E-02	40	17.40	15.60	20.43	21.20
20525-#50E-02	50	21.40	19.60	24.43	25.20
20525-#60E-02	60	25.40	23.60	28.43	29.20

**PATENT REGISTERED**



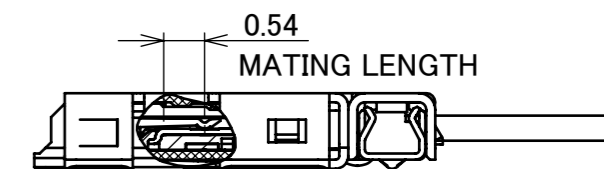
Halogen Free



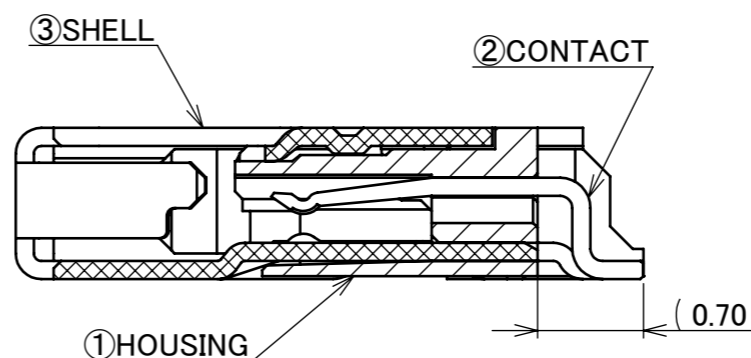
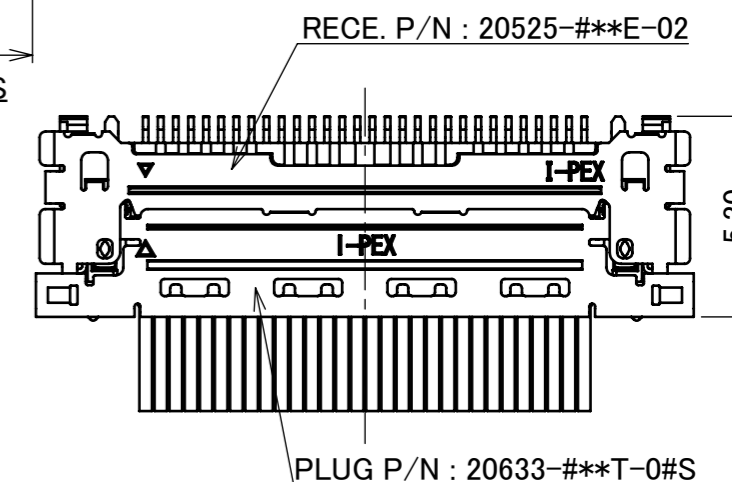
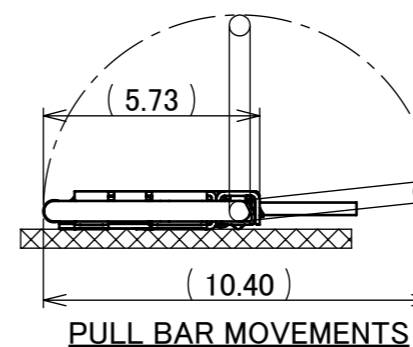
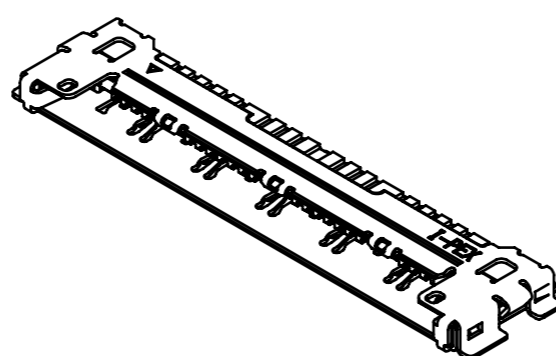
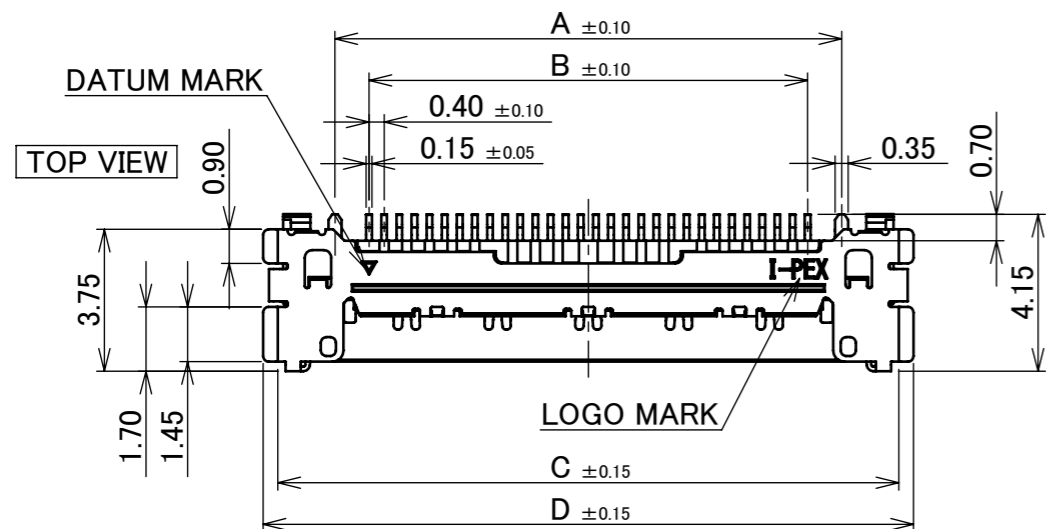
RoHS Compliant

P/N : 20525-#\*\*E-02

POS. SEE TABLE 1



MATING CONDITION



SECT. X-X (S=20/1)

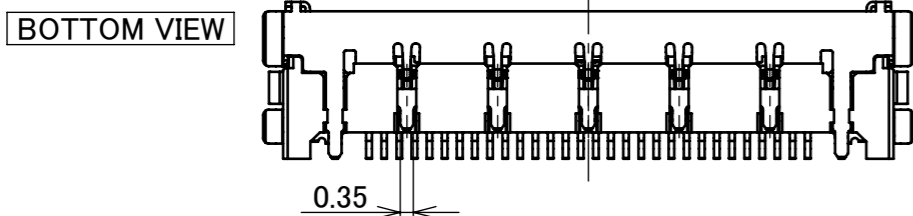
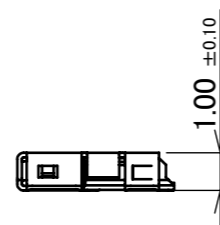


TABLE.1

PART NO.	CONTACT FINISH	SHELL FINISH
20525-0**E-02	CONTACT AREA : Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.	ALL OVER Au 0.02 μm MIN. OVER Ni 1.00 μm MIN. CONTACT AREA : Au 0.02 μm MIN. OVER Ni 0.80 μm MIN.
20525-2**E-02	CONTACT AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.03 μm MIN. OVER Ni 1.00 μm MIN.	ALL OVER Ni 1.00 μm MIN. SOLDERING AREA : Au 0.02 μm MIN.

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

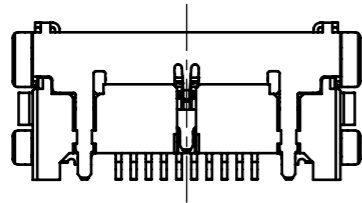
REV.	ECN	BY	DATE	APP.	APP.	DATE	DWG. No.	PROJECTION	SERIES No.	TITLE	SCALE	SHEET	REV.
27	Z230040	K.B	Jan./13/'23	H.I	ANGLE	±2°	6 OVER 30 MAX.	±0.3	R7	CABLINER®-CA RECE. ASSY	5:1	A3	27
26	Z220632	R.M	June/06/'22	H.I	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
25	Z210833	M.N	July/26/'21	H.I	GENERAL TOLERANCE.								
24	Z201150	T.Ono	Nov./05/'20	H.I	DWG.		DATE						
23	Z200341	Y.Sasa	Mar./24/'20	H.I	CHK.	T.Kurachi	2009/11/13						
22	Z200258	Y.Sasa	Mar./05/'20	H.I	CHK.	Y.Hashimoto	2009/11/16						
REV.	ECN	BY	DATE	APP.	APP.	DATE	DWG. No.						
REVISION RECORD													
							T.Harada	2009/11/18	20525			1/6	

PART NO.  
20525-\*\*\*E-02

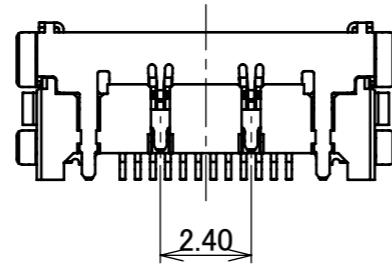
**BOTTOM VIEW**

**PATENT REGISTERED**

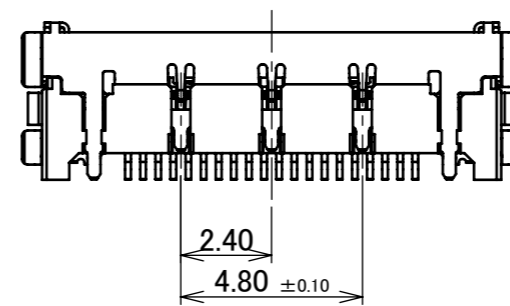
**10P**



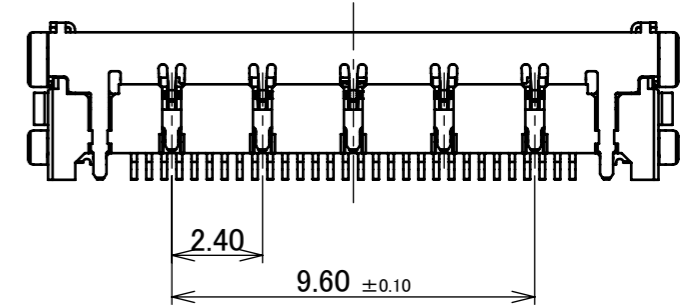
**12P**



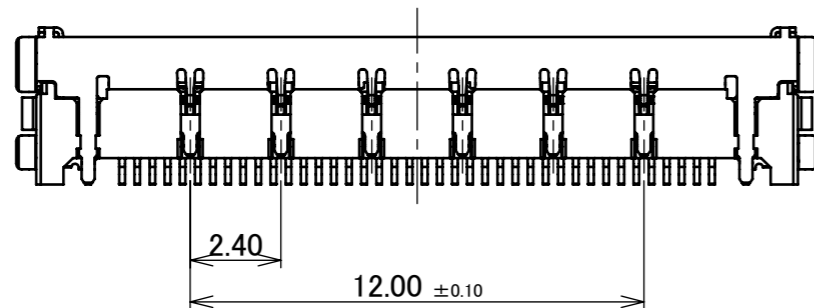
**20P**



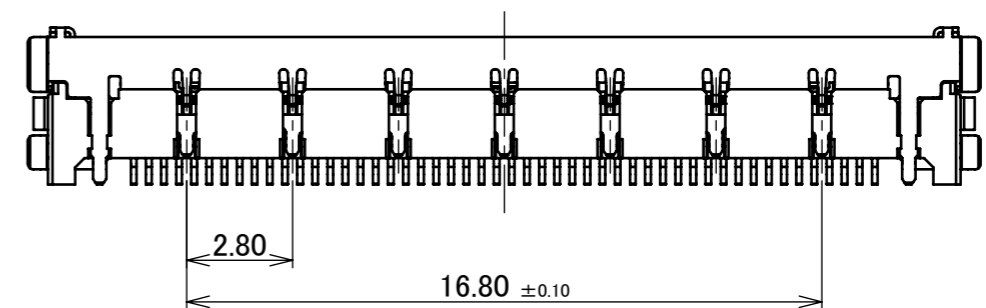
**30P**



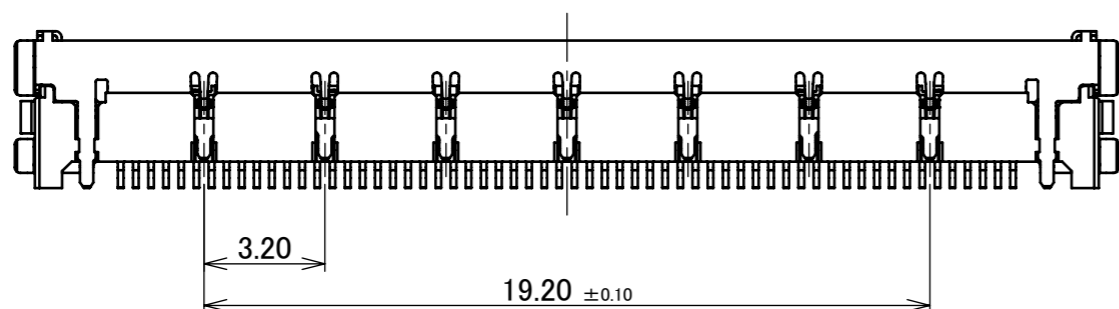
**40P**



**50P**



**60P**



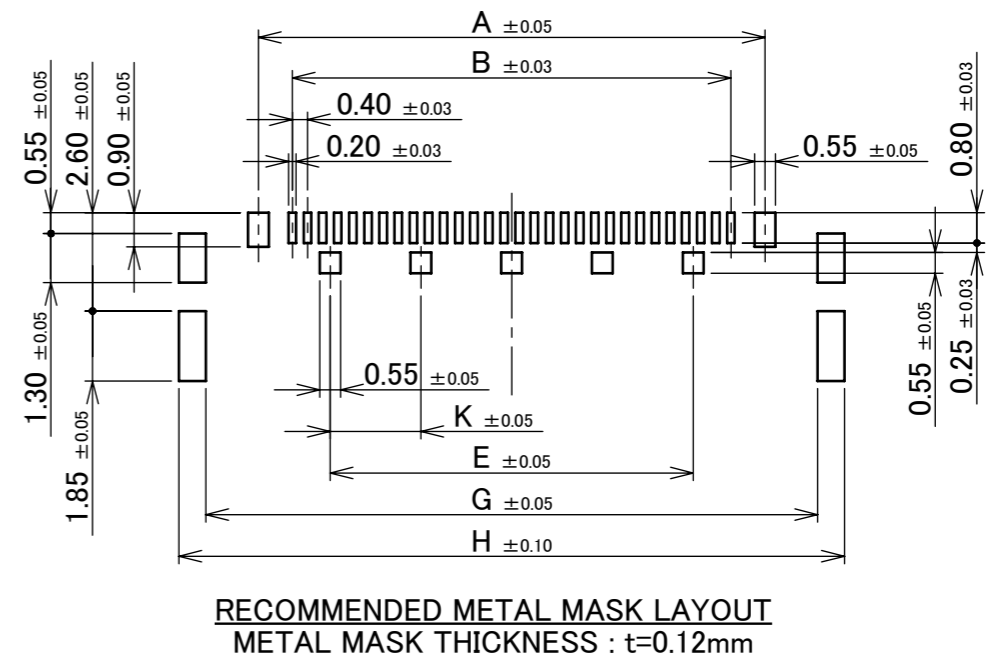
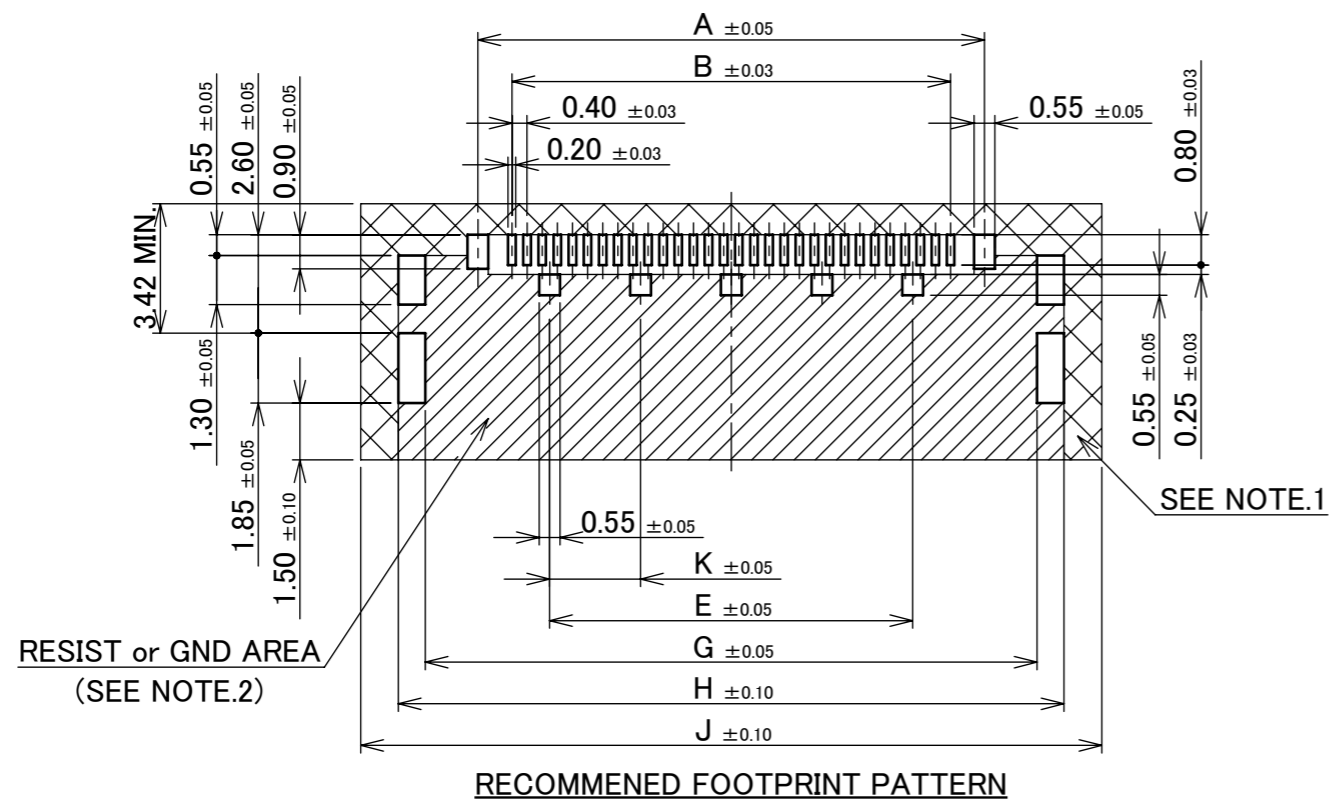
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R7	CUSTOMER COPY				
	6 MAX.	±0.2	30 OVER 120 MAX.					±0.5		
GENERAL TOLERANCE.				TITLE CABLIN <sup>®</sup> -CA RECE. ASSY	SCALE 5:1	<b>I-PEX</b>				
DWG.	DATE							UNIT mm		
CHK.								SIZE A3	SHEET 2/6	REV. 27
APP.								DWG. No. 20525		

ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO COAX : AWG# 44 , 42 , 40 , 38 , 36 DISCRETE : AWG# 36 , 34 TWINCOAX : AWG# 40 , 42
RATING VOLTAGE	100V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR CONTACT)	0.1A AC/DC [AWG#44] PER CONTACT PIN/UP TO 60 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 40 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 6 CONTACTS 1.0A AC/DC [AWG#34] PER CONTACT PIN/UP TO 4 CONTACTS ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K (-40°C~85°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)	10P : 7.80N MAX.    40P : 19.40N MAX. 12P : 8.20N MAX.    50P : 24.25N MAX. 20P : 9.70N MAX.    60P : 29.10N MAX. 30P : 14.55N MAX.
UNMATING FORCE (INITIAL / AFTER 30 CYCLES)	10P : 1.00N MIN.    40P : 4.00N MIN. 12P : 1.20N MIN.    50P : 5.00N MIN. 20P : 2.00N MIN.    60P : 6.00N MIN. 30P : 3.00N MIN.
CABLE RETENTION FORCE	10P : 4.90N MIN.    40P : 19.60N MIN. 12P : 5.88N MIN.    50P : 24.50N MIN. 20P : 9.80N MIN.    60P : 29.40N MIN. 30P : 14.70N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1968
TEST REPORT	TR-14122 (20525-0**E-0#) / TR-16023 (20525-2**E-0#)
PACKING STANDARD	300-824
INSTRUCTION MANUAL	HIM-09008
APPEARANCE CRITERIA No.	QLS-A***

ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	$\pm 0.3$	PROJECTION 	SERIES No. R7	CUSTOMER COPY		
6 MAX.	$\pm 0.2$	30 OVER 120 MAX.	$\pm 0.5$					
GENERAL TOLERANCE.				TITLE CABLIN <sup>®</sup> -CA RECE. ASSY	SCALE 5:1 UNIT mm	<b>I-PEX</b>		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20525	SIZE A3	SHEET 3/6	REV. 27

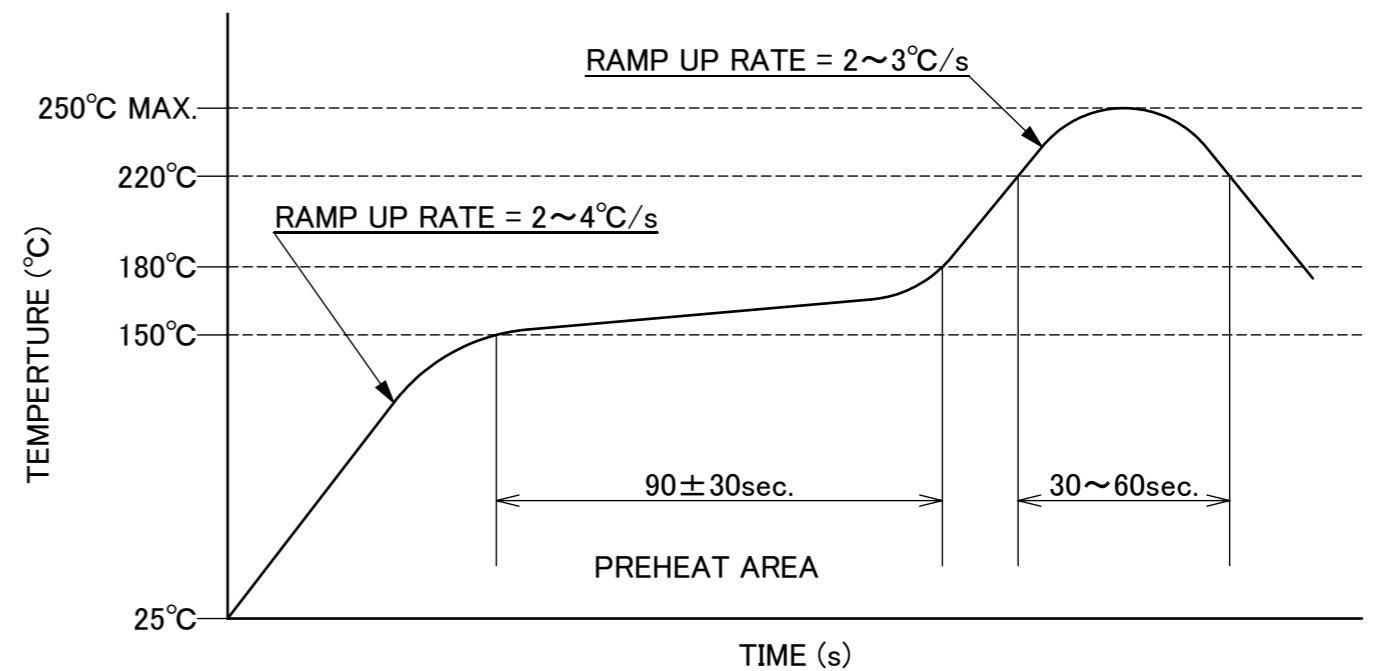
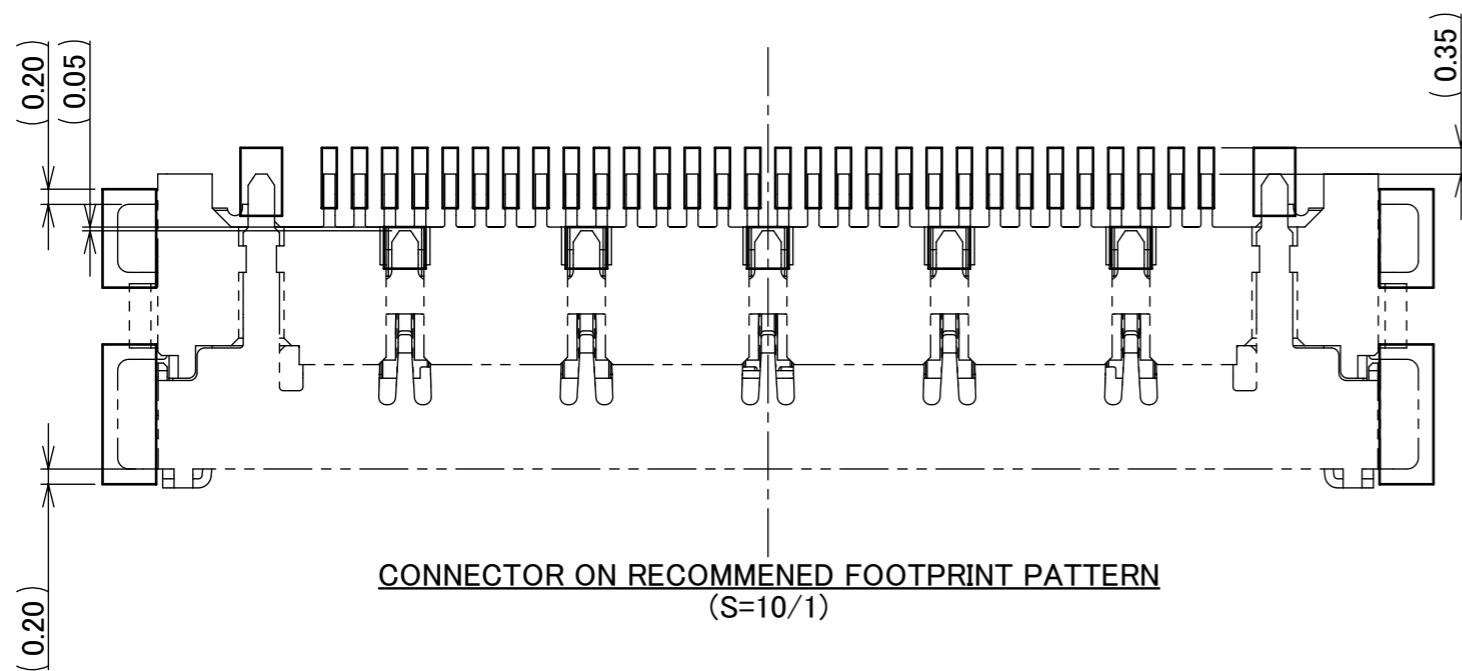
PART NO.	POS.	A	B	E	G	H	J	K
20525-#10E-02	10	5.40	3.60	-	8.18	9.60	11.60	-
20525-#12E-02	12	6.20	4.40	2.40	8.98	10.40	12.40	-
20525-#20E-02	20	9.40	7.60	4.80	12.18	13.60	15.60	2.40
20525-#30E-02	30	13.40	11.60	9.60	16.18	17.60	19.60	2.40
20525-#40E-02	40	17.40	15.60	12.00	20.18	21.60	23.60	2.40
20525-#50E-02	50	21.40	19.60	16.80	24.18	25.60	27.60	2.80
20525-#60E-02	60	25.40	23.60	19.20	28.18	29.60	31.60	3.20

# PATENT REGISTERED



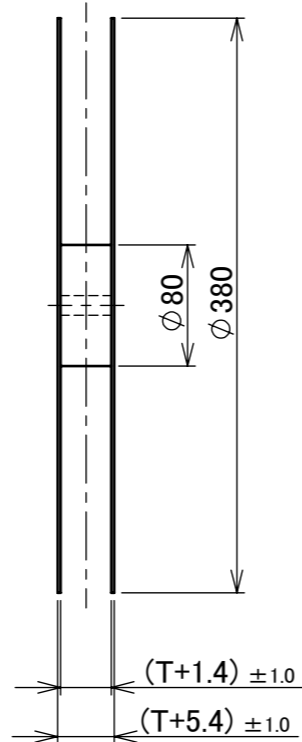
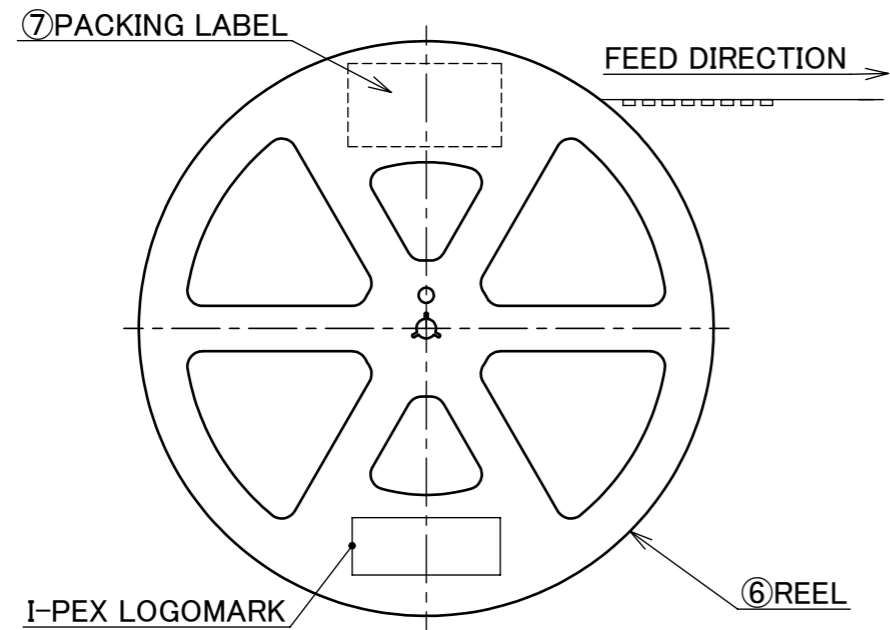
- NOTES.
1. IN CASE OF PLUG WITH PULL BAR(20633-##\*T-01S), THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.
  2. SOLDER RESIST SHALL BE APPLIED TO PREVENT SHORT CIRCUITS WHEN PLACING SIGNAL LINES ON GROUND AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R7	CUSTOMER COPY					
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5								
GENERAL TOLERANCE.				TITLE CABLIN <sup>®</sup> -CA RECE. ASSY	SCALE 5:1	<b>I-PEX</b>					
DWG.	DATE								UNIT mm		
CHK.									SIZE A3	SHEET 4/6	REV. 27
APP.									DWG. No. 20525		

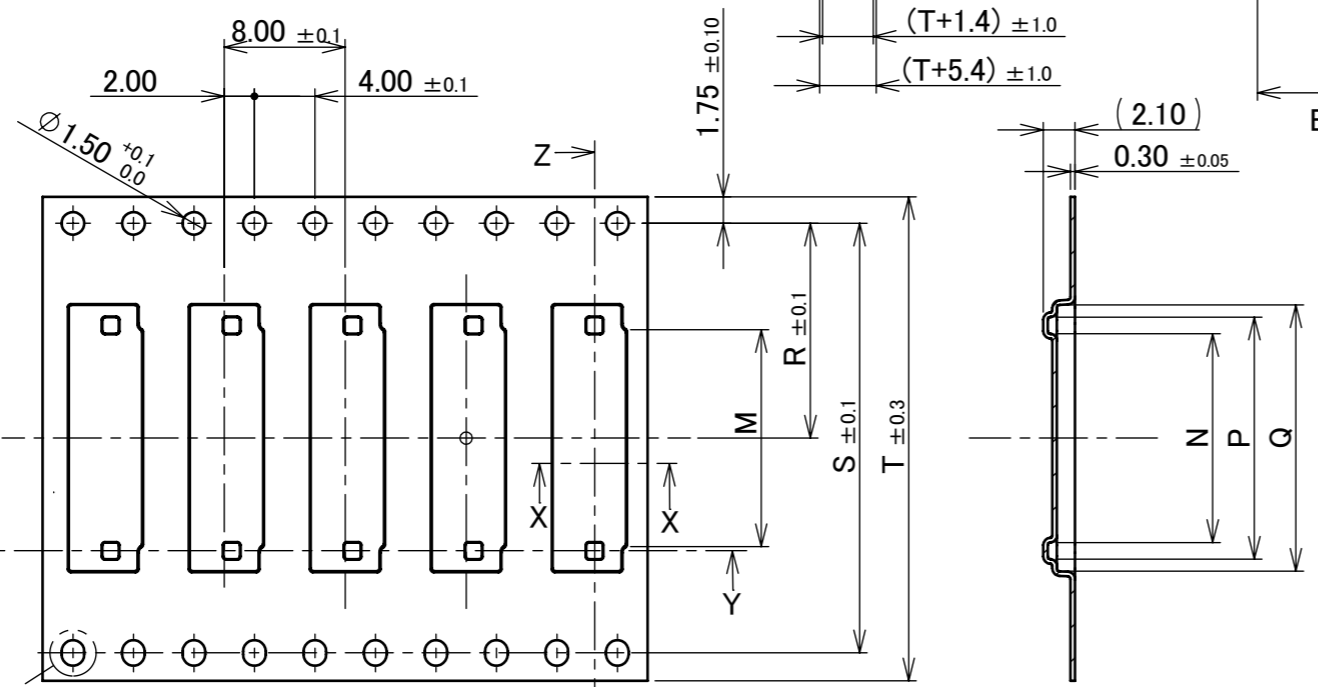
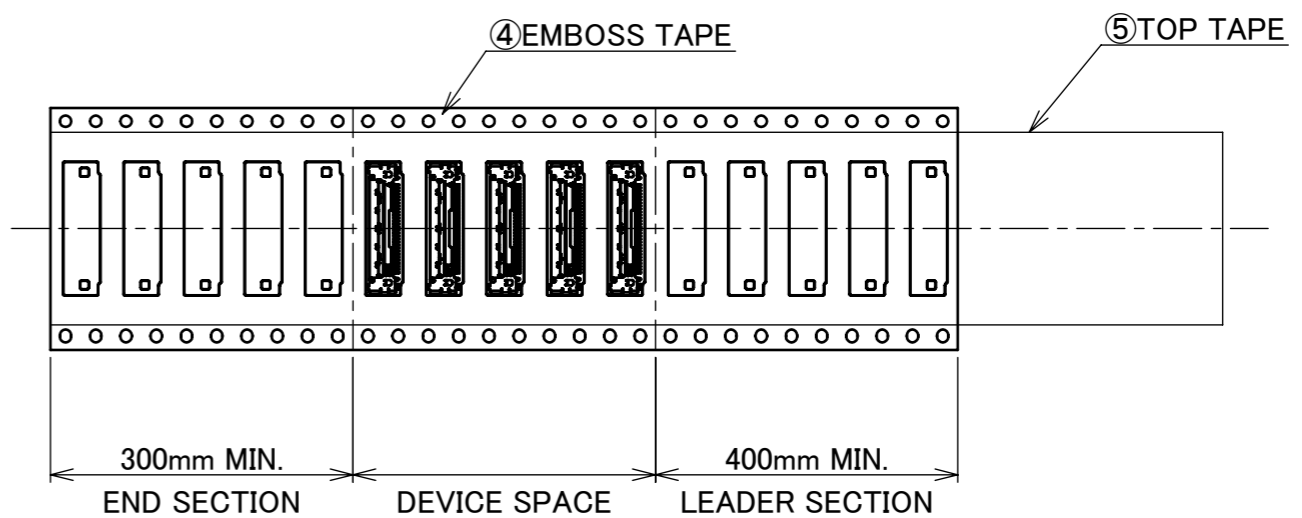


ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R7	CUSTOMER COPY			
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5						
GENERAL TOLERANCE.				TITLE CABLIN <sup>®</sup> -CA RECE. ASSY		SCALE	<b>I-PEX</b>		
DWG.	DATE					5:1			
CHK.						UNIT			
APP.						mm			
				DWG. No.	20525	SIZE	SHEET	REV.	
						A3	5/6	27	

PART NO.	M	N	P	Q	R	S	T	REEL QTY.	QTY. IN EMBOSS TAPE (1 REEL)	QTY. IN PACKING CARTON (1 CARTON)
20525-#10E-02	6.35	5.80	8.00	9.60	11.50	-	24.00	5 REELS	5000	5000 × 5 = 25000
20525-#12E-02	7.15	6.60	8.80	10.40	11.50	-	24.00			
20525-#20E-02	10.35	9.80	12.00	13.60	11.50	-	24.00			
20525-#30E-02	14.35	13.80	16.00	17.60	14.20	28.40	32.00	4 REELS	5000	5000 × 4 = 20000
20525-#40E-02	18.35	17.80	20.00	21.60	14.20	28.40	32.00			
20525-#50E-02	22.35	21.80	24.00	25.60	20.20	40.40	44.00	3 REELS	5000	5000 × 3 = 15000
20525-#60E-02	26.35	25.80	28.00	29.60	20.20	40.40	44.00			

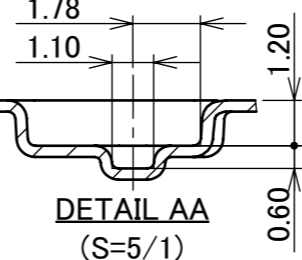
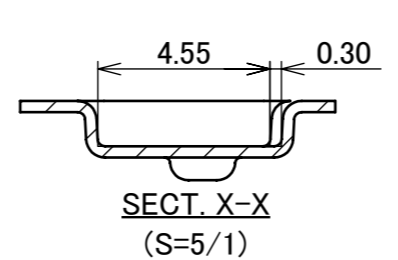
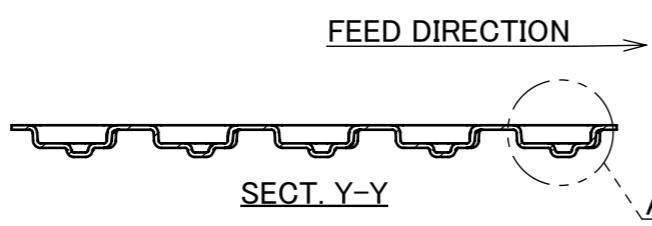
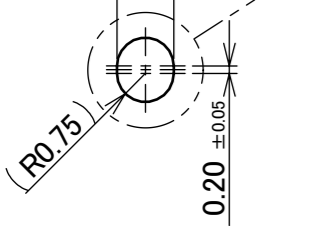


P/N : 20525- # \*\* E- 0 2  
 POS. SEE TABLE 1 (SHEET1/6)



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

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
7	PACKING LABEL	-	-
6	REEL	PS	BLACK
5	TOP TAPE	PET t=0.061 TRANSPARENCY	ANTI-STATIC TYPE ADHESIVE TYPE
4	EMBOSS TAPE	PS t=0.30 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		R7	SCALE	<b>I-PEX</b>		
GENERAL TOLERANCE.						TITLE			
DWG.	DATE				CABLIN <sup>®</sup> -CA RECE. ASSY	UNIT	mm		
CHK.					DWG. No.	SIZE	SHEET	REV.	
APP.					20525	A3	6/6	27	