

Recommended P/N 20374-R**E-31

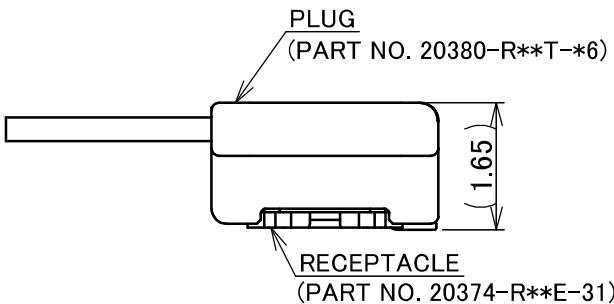
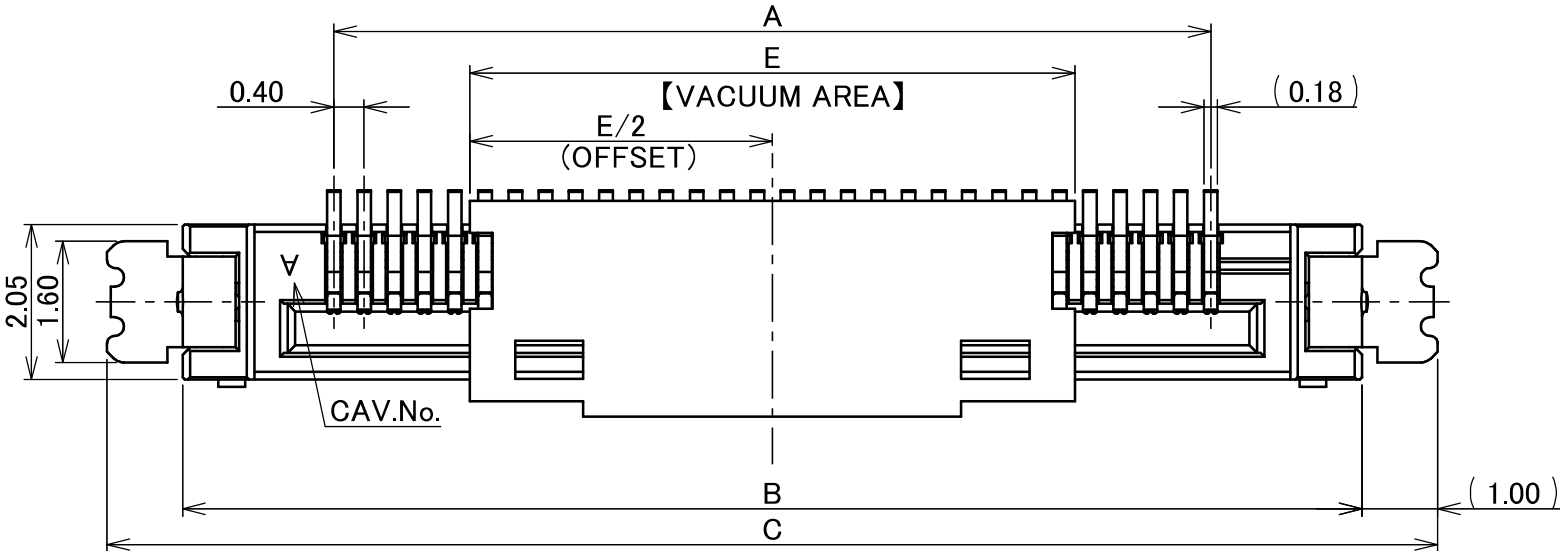
PART NO.	POS.	A	B	C	D	E
20374-R10E-31	10	3.60	7.60	9.60	7.20	5.50
20374-R14E-31	14	5.20	9.20	11.20	8.80	5.50
20374-R20E-31	20	7.60	11.60	13.60	11.20	8.00
20374-R30E-31	30	11.60	15.60	17.60	15.20	8.00
20374-R32E-31	32	12.40	16.40	18.40	16.00	8.00
20374-R35E-31	35	13.60	17.60	19.60	17.20	8.00
20374-R40E-31	40	15.60	19.60	21.60	19.20	8.00
20374-R50E-31	50	19.60	23.60	25.60	23.20	8.00



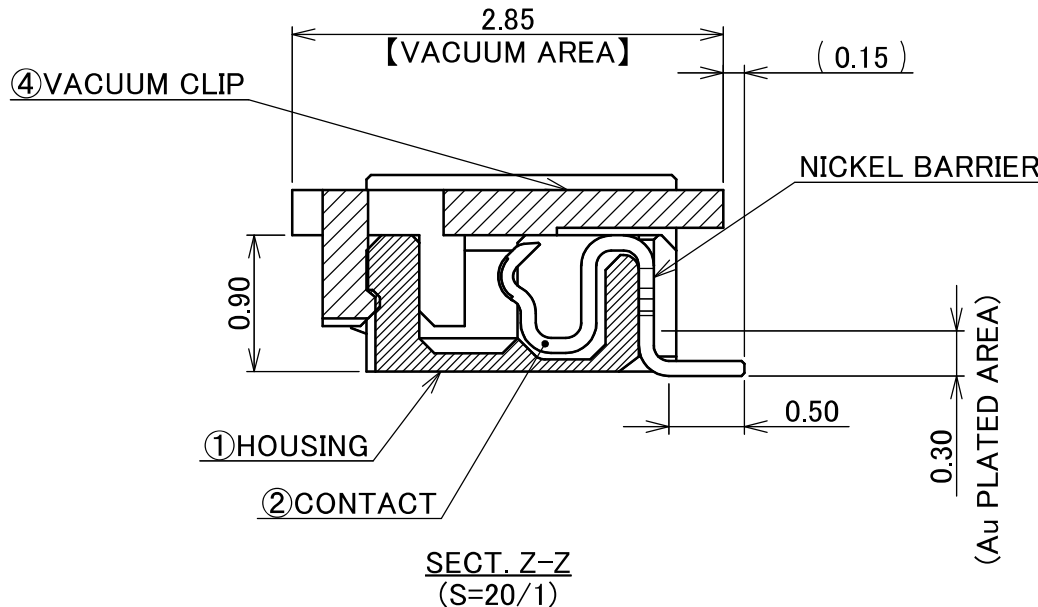
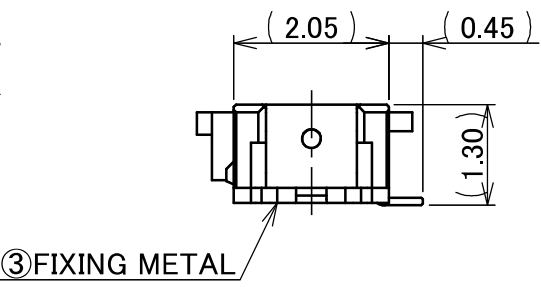
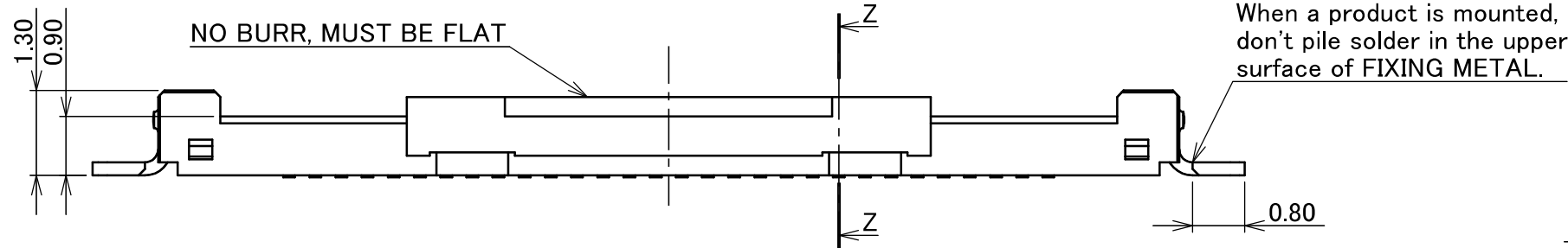
Halogen Free



RoHS Compliant



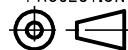
MATING CONDITION



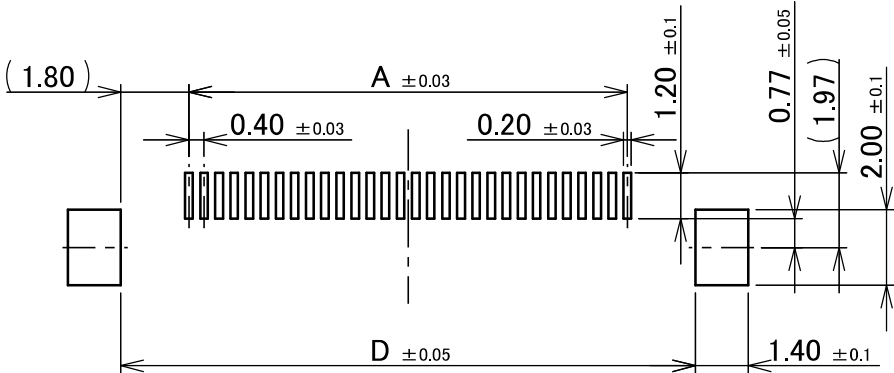
4	VACUUM CRIP	LCP	UL94V-0, BEIGE
3	FIXING METAL	PHOSPHOR BROZE	Sn/Cu(98/2) (LUSTER) 2.0 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BROZE	CONTACT AREA: Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA: Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING	LCP (RED PHOSPHORUS IS NOT USED)	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

31	Z250961	T.T	2025/06/16	H.I	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY		
30	Z221004	K.Hara	2022/09/05	H.I	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R3			
29	Z220245	TSU	2022/03/08	H.I	GENERAL TOLERANCE.				TITLE CABLINE® -SS RECEPTACLE ASSEMBLY	SCALE	I-PEX		
28	Z210420	T.T	2021/04/21	H.I	DWG.	DATE		10:1					
27	Z201182	K.Hara	2020/11/13	Y.S	K.Narita2004/04/19			UNIT					
26	Z201151	K.Hara	2020/11/05	Y.S	CHK. —			mm					
REV.	ECN	BY	DATE	APP.	APP.				DWG. No.	20374	SIZE	SHEET	REV.
REVISION RECORD					T.Harada				20374		A3	1/4	31

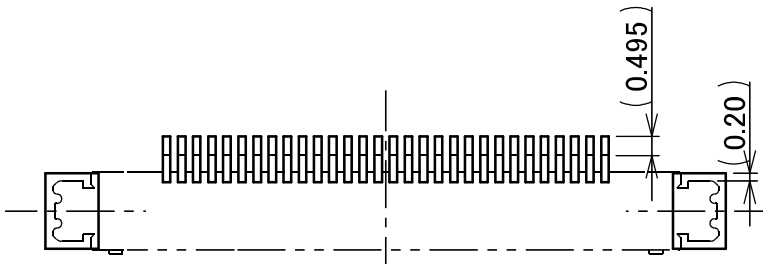
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 , 40 , 36 DISCRETE WIRE : AWG# 36, 34
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.24A AC/DC [AWG#42] AVAILABLE TO 50 PIN 0.25A AC/DC [AWG#40] AVAILABLE TO 50 PIN 0.30A AC/DC [AWG#40] AVAILABLE TO 32 PIN 0.35A AC/DC [AWG#36] AVAILABLE TO 50 PIN 0.40A AC/DC [AWG#36] AVAILABLE TO 37 PIN 0.35A AC/DC [AWG#34] AVAILABLE TO 50 PIN 1.00A AC/DC [AWG#34] AVAILABLE TO 2 PIN ※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE MAY AFFECTED BY ACTUAL SITUATION.
OPERATING TEMPERATURE	233~358K (-40℃~85℃)
OPERATING HUMIDITY	85% MAX. (NON-CONDENSING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : $\triangle$ 40mohm MAX. 275mohm MAX. (AWG#36) 600mohm MAX. (AWG#40) 700mohm MAX. (AWG#42) (INITIAL CONTAINS THE CONDUCTOR RESISTANCE OF A CABLE 100mm)
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 : 29.00N MAX. 32P : 33.40N MAX. 14P : 29.80N MAX. 35P : 34.00N MAX. 20P : 31.00N MAX. 40P : 35.00N MAX. 30P : 33.00N MAX. 50P : 38.00N MAX.
UNMATING FORCE	10P : INITIAL : 4.00N MIN. / AFTER 30 CYCLES : 2.87N MIN. 14P : INITIAL : 4.40N MIN. / AFTER 30 CYCLES : 3.23N MIN. 20P : INITIAL : 5.00N MIN. / AFTER 30 CYCLES : 3.76N MIN. 30P : INITIAL : 6.00N MIN. / AFTER 30 CYCLES : 4.65N MIN. 32P : INITIAL : 6.20N MIN. / AFTER 30 CYCLES : 4.84N MIN. 35P : INITIAL : 6.50N MIN. / AFTER 30 CYCLES : 5.07N MIN. 40P : INITIAL : 7.00N MIN. / AFTER 30 CYCLES : 5.50N MIN. 50P : INITIAL : 8.00N MIN. / AFTER 30 CYCLES : 6.41N MIN.
COPLANARITY	0.10 MAX.
PRODUCT SPECIFICATION	PRS-1239
TEST REPORT	TR-04037
PACKING STANDARD	300-359
INSTRUCTION MANUAL	HIM-04001
APPEARANCE CRITERIA No.	QLS-A***

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLINE® –SS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					—		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20374	SIZE	SHEET	REV.
						A3	2/4	31

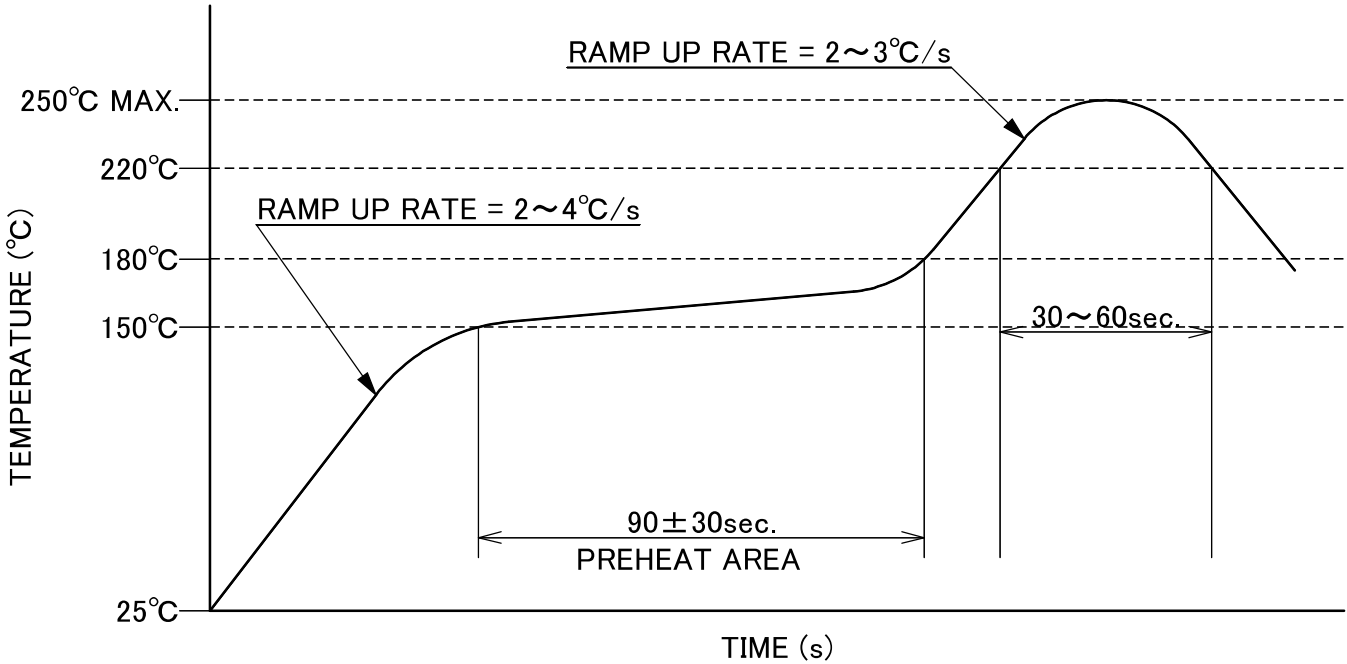
PART NO.	POS.	A	D
20374-R10E-31	10	3.60	7.20
20374-R14E-31	14	5.20	8.80
20374-R20E-31	20	7.60	11.20
20374-R30E-31	30	11.60	15.20
20374-R32E-31	32	12.40	16.00
20374-R35E-31	35	13.60	17.20
20374-R40E-31	40	15.60	19.20
20374-R50E-31	50	19.60	23.20



RECOMMENDED FOOTPRINT PATTERN (MOUNT SIDE)
 Recommended Thickness of Metal Mask : $t=0.13\text{mm}$
 Recommended Opening Ratio of Metal Mask : 79.6%



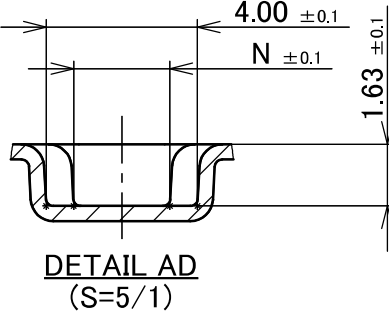
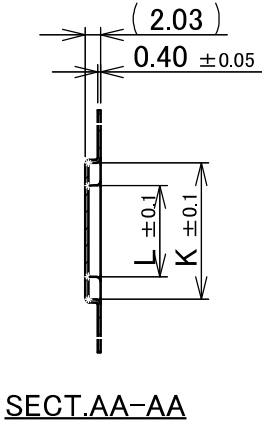
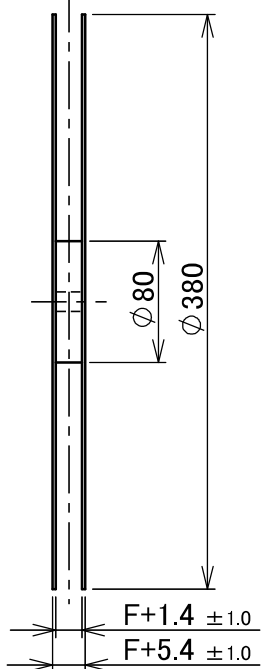
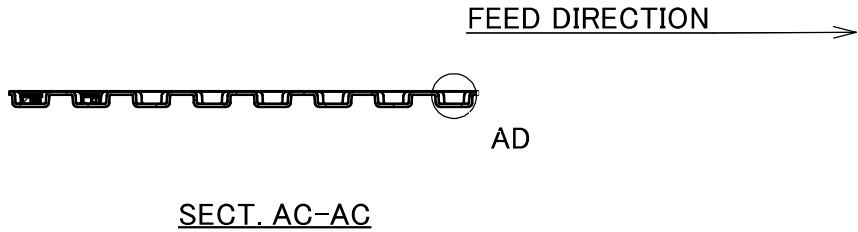
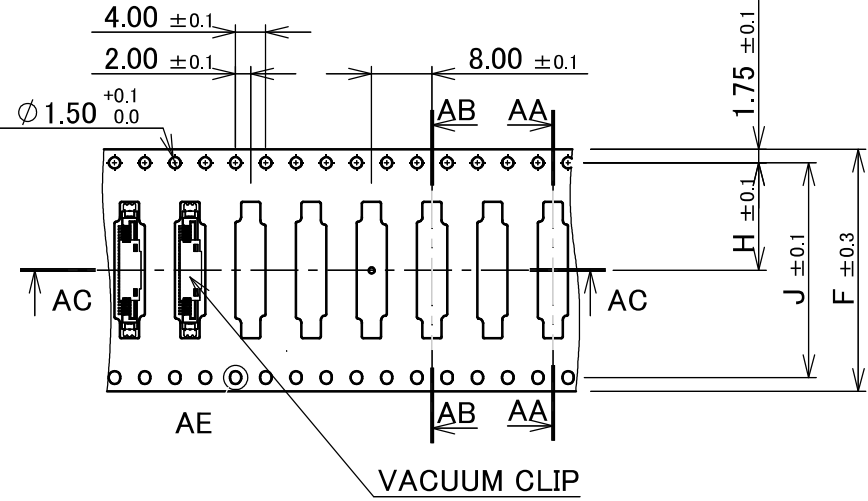
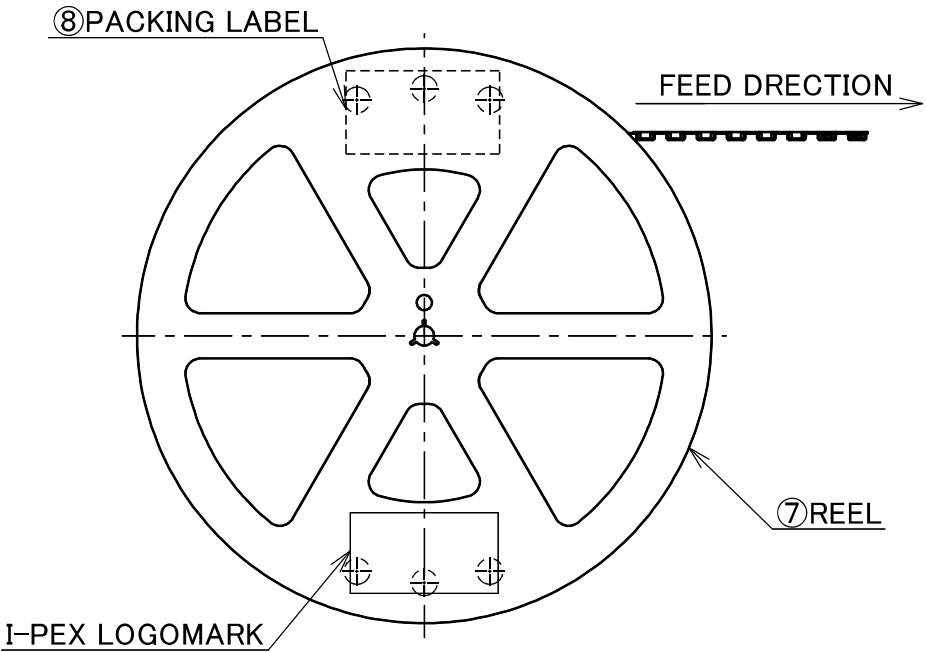
CONNECTOR ON RECOMMENDED FOOTPRIT PATTERN



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. R3	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE CABLINE® –SS RECEPTACLE ASSEMBLY		SCALE	I-PEX	
DWG.	DATE					5:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20374	SIZE	SHEET	REV.
						A3	3/4	31

PART NO.	POS.	F	G	H	J	K	L	M	N	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20374-R10E-31	10	24.00	21.50	11.50	-	9.90	5.90	5.90	2.50	6000 PIECES / REEL	3 REELS / CARTON = 18000 PIECES
20374-R14E-31	14	24.00	21.50	11.50	-	11.50	7.50	7.50	2.50		
20374-R20E-31	20	32.00	26.00	14.20	28.40	14.00	9.00	8.78	2.55		
20374-R30E-31	30	32.00	26.00	14.20	28.40	18.00	12.00	12.78	2.55		
20374-R32E-31	32	32.00	26.00	14.20	28.40	18.80	12.00	13.58	2.55		
20374-R35E-31	35	32.00	26.00	14.20	28.40	20.00	12.00	14.78	2.55		
20374-R40E-31	40	32.00	26.00	14.20	28.40	22.00	12.00	16.78	2.55		
20374-R50E-31	50	44.00	37.00	20.20	40.40	26.00	12.00	20.78	2.55		



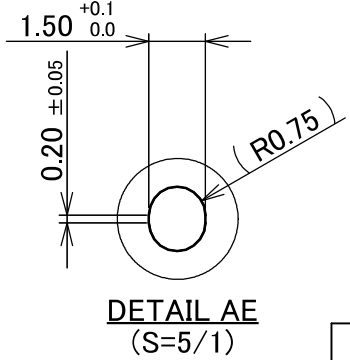
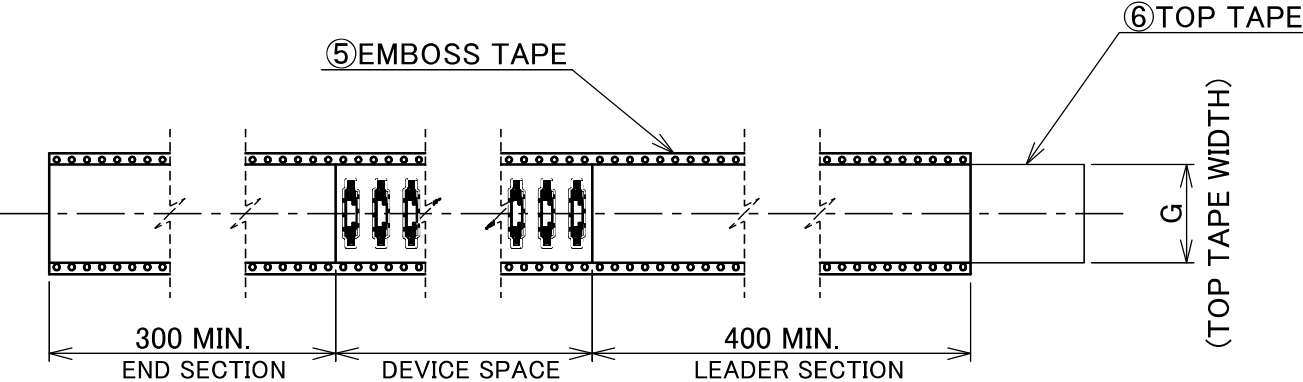
NOTES.

1.TAPING SPECIFICATION FOLLOWS JIS C 0806 (IEC 60286-3).

2.MAKE EMPTY SECTION OF LEADER AND END ON EACH END OF THE TAPE.

3.TOP TAPE SHALL NOT STICK OUT FROM EMBOSS TAPE.

4.TOP TAPE SHALL NOT COVER FEED HOLE.



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

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No.	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5	⊕	R3			
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX	
DWG. DATE				CABLINE® -SS RECEPTACLE ASSEMBLY		1:5		
CHK.						UNIT		
APP.				DWG. No.		mm		
				20374		SIZE	SHEET	REV.
						A3	4/4	31