

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

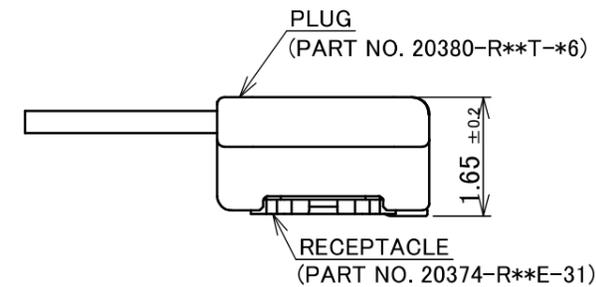
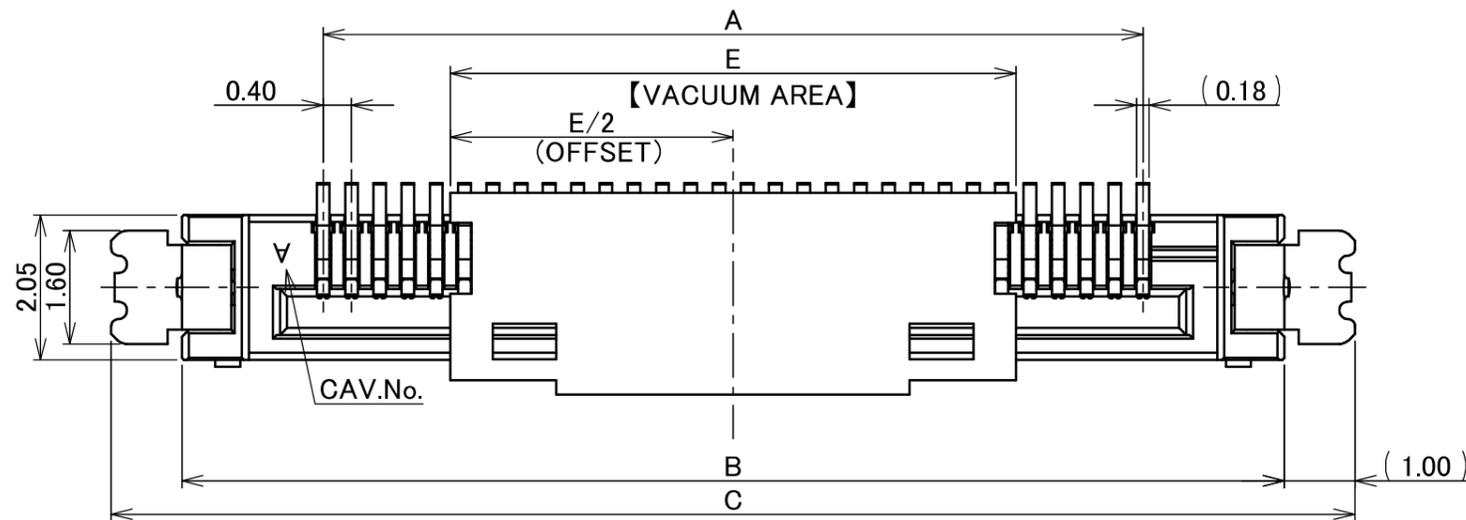
PART NO.	POS.	A	B	C	D	E
20374-R10E-31	10	3.60	7.60	9.60	7.20	5.50
20374-R14E-31	14	5.20	9.20	11.20	8.80	5.50
20374-R20E-31	20	7.60	11.60	13.60	11.20	8.00
20374-R30E-31	30	11.60	15.60	17.60	15.20	8.00
20374-R32E-31	32	12.40	16.40	18.40	16.00	8.00
20374-R35E-31	35	13.60	17.60	19.60	17.20	8.00
20374-R40E-31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



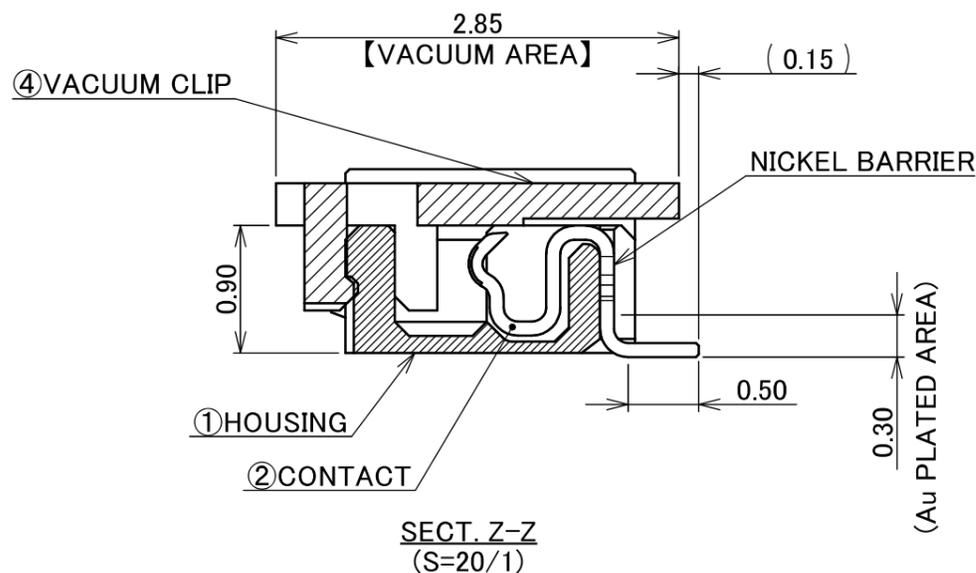
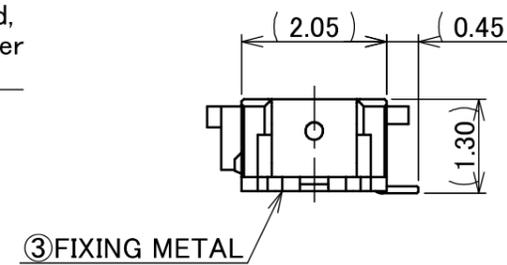
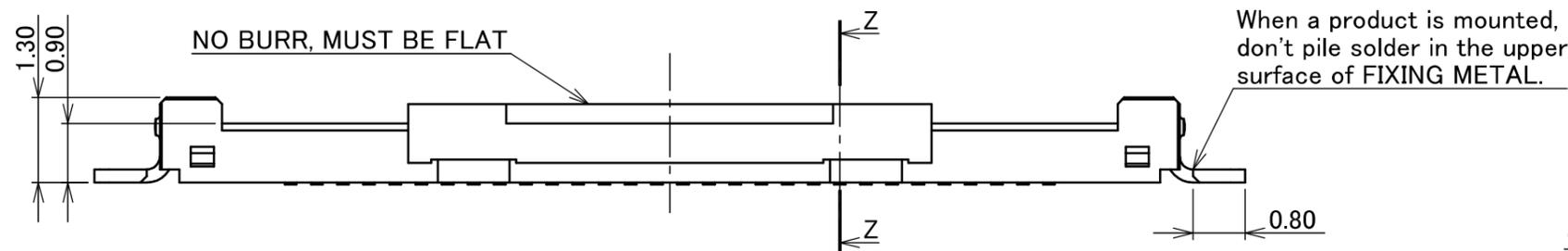
Halogen Free



RoHS Compliant



MATING CONDITION



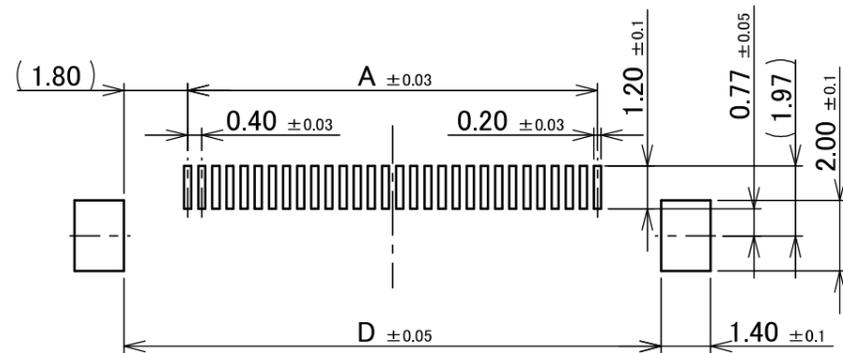
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	VACUUM CRIP	LCP	UL94V-0, BEIGE
3	FIXING METAL	PHOSPHOR BROZE	Sn/Cu(98/2) (LUSTER) 2.0 μ m MIN. OVER Ni 1.00 μ m MIN.
2	CONTACT	PHOSPHOR BROZE	CONTACT AREA : Au 0.1 μ m MIN. OVER Ni 1.00 μ m MIN. SOLDERING AREA : Au 0.05 μ m MIN. OVER Ni 1.00 μ m MIN.
1	HOUSING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

REV.	ECN	BY	DATE	APP.	APP.	PROJECTION	SERIES No.	TITLE	SCALE	SHEET	REV.
33	ZC00543	RYO	2026/03/16	T.M	ANGLE ±2° 6 OVER 30 MAX. ±0.3		R3	CABLINER [®] -SS RECEPTACLE ASSEMBLY	10:1	A3	33
32	ZC00398	A.K	2026/01/05	T.M	6 MAX. ±0.2 30 OVER 120 MAX. ±0.5				UNIT		
31	Z250961	T.T	2025/06/16	H.I	GENERAL TOLERANCE.		DWG. No. 20374	mm	1/4	33	
30	Z221004	K.Hara	2022/09/05	H.I	DWG. K.Narita	DATE 2004/04/19					
29	Z220245	TSU	2022/03/08	H.I	CHK. -						
28	Z210420	T.T	2021/04/21	H.I	APP. -						
REVISION RECORD					T.Harada						

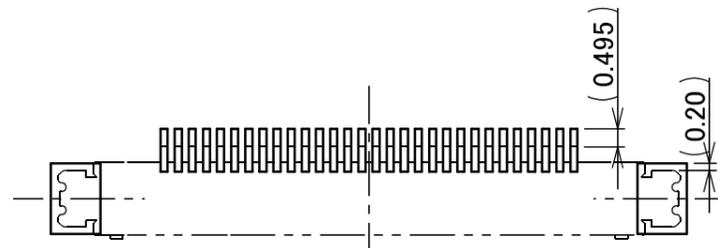
ITEMS	SPECIFICATION
APPLICABLE CABLE	MICRO-COAXIAL CABLE : AWG# 42 , 40 , 38 , 36 DISCRETE WIRE : AWG# 36, 34
RATING VOLTAGE	100V AC (PER CONTACT PIN) ※THIS IS THE RATED VOLTAGE OF THE CONNECTOR. PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS DEPENDING ON THE CABLES USED.
RATING AMPERAGE (FOR CONTACT)	0.24A AC/DC [AWG#42] (Per Contact Pin/Up to 50 Contacts) 0.25A AC/DC [AWG#40] (Per Contact Pin/Up to 50 Contacts) 0.30A AC/DC [AWG#40] (Per Contact Pin/Up to 32 Contacts) 0.33A AC/DC [AWG#38] (Per Contact Pin/Up to 50 Contacts) 0.50A AC/DC [AWG#38] (Per Contact Pin/Up to 12 Contacts) 0.35A AC/DC [AWG#36] (Per Contact Pin/Up to 50 Contacts) 0.40A AC/DC [AWG#36] (Per Contact Pin/Up to 37 Contacts) 0.80A AC/DC [AWG#36] (Per Contact Pin/Up to 4 Contacts) 0.35A AC/DC [AWG#34] (Per Contact Pin/Up to 50 Contacts) 1.00A AC/DC [AWG#34] (Per Contact Pin/Up to 2 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-CONDENSING)
CONTACT RESISTANCE	INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : \triangleleft 40mohm MAX. 275mohm MAX. (AWG#36) 360mohm MAX. (AWG#38) 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 : \triangleleft 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	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY		
	6 MAX.	± 0.2	30 OVER 120 MAX.					
GENERAL TOLERANCE.				TITLE CABLIN [®] -SS RECEPTACLE ASSEMBLY	SCALE 5:1 UNIT mm	I-PEX		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20374	SIZE A3	SHEET 2/4	REV. 33

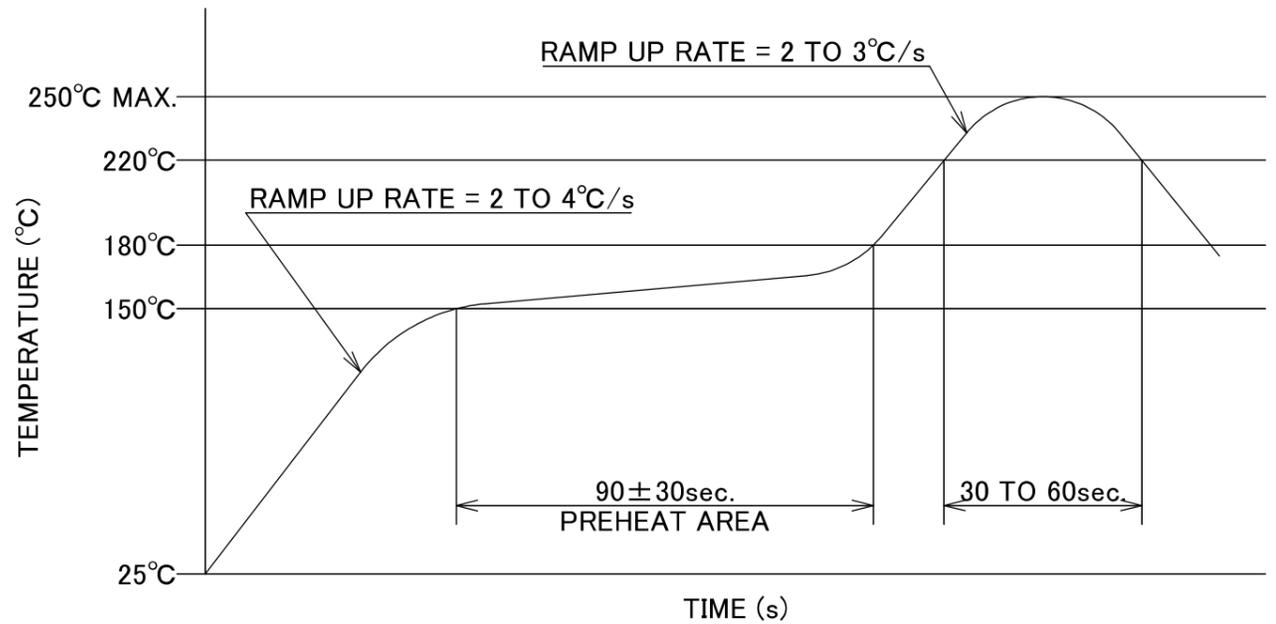
PART NO.	POS.	A	D
20374-R10E-31	10	3.60	7.20
20374-R14E-31	14	5.20	8.80
20374-R20E-31	20	7.60	11.20
20374-R30E-31	30	11.60	15.20
20374-R32E-31	32	12.40	16.00
20374-R35E-31	35	13.60	17.20
20374-R40E-31	40	15.60	19.20
20374-R50E-31	50	19.60	23.20



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



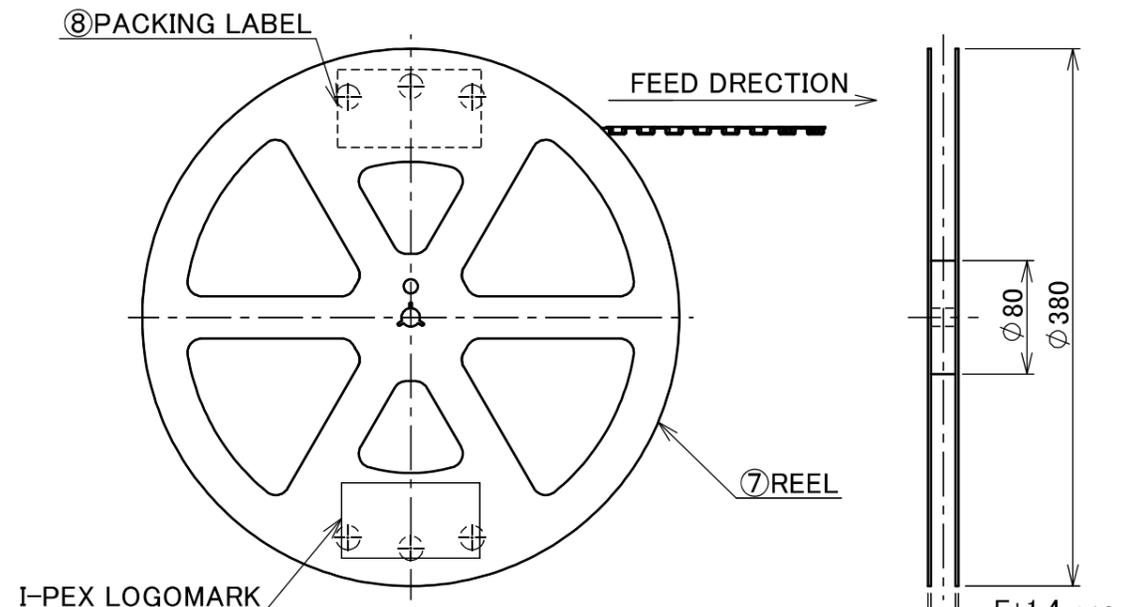
CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



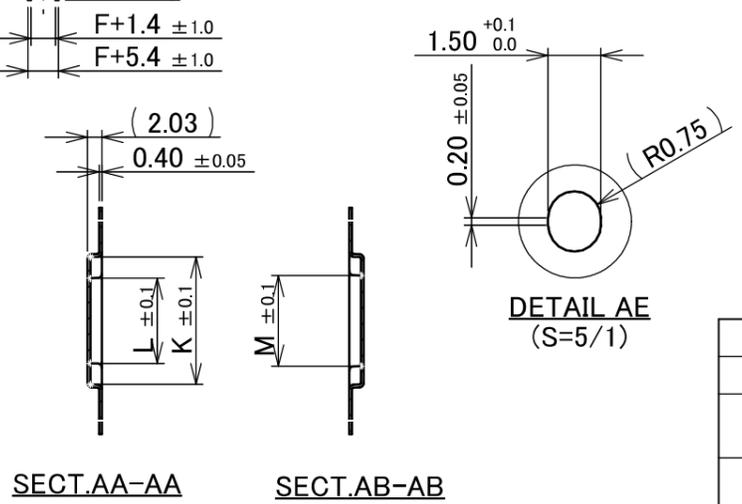
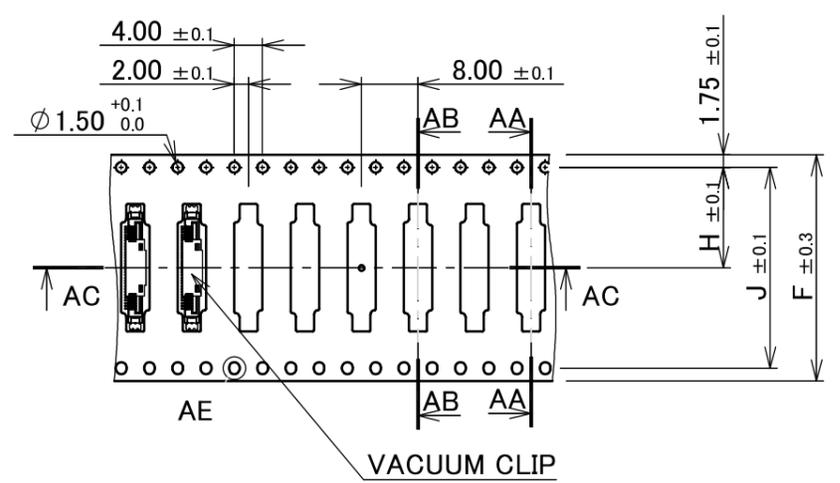
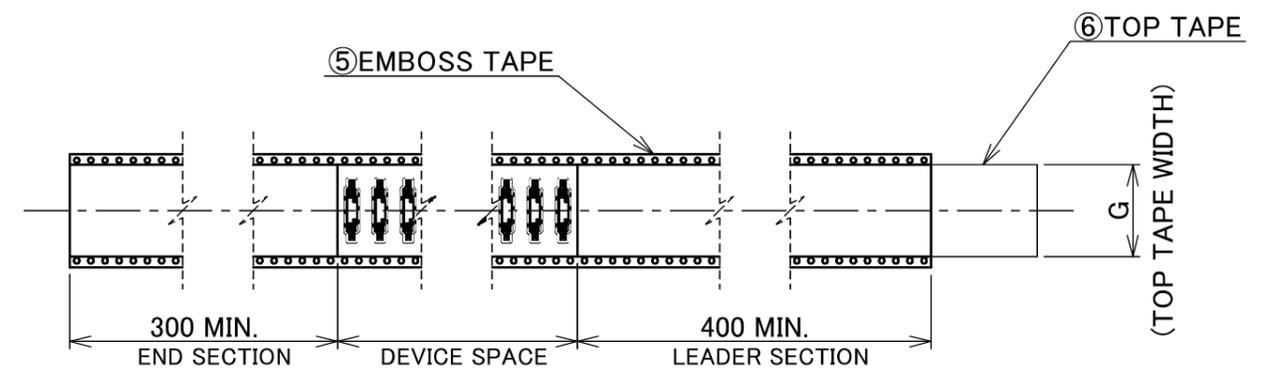
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION 	SERIES No. R3	CUSTOMER COPY		
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5			SCALE 5:1	I-PEX	
GENERAL TOLERANCE.				TITLE CABLIN [®] -SS RECEPTACLE ASSEMBLY	UNIT mm			
DWG.	DATE			DWG. No. 20374	SIZE A3	SHEET 3/4		REV. 33
CHK.								
APP.								

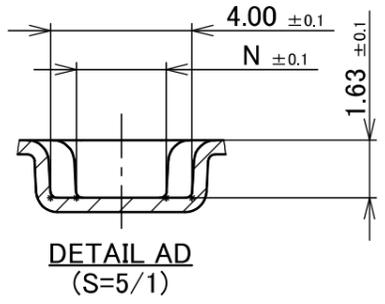
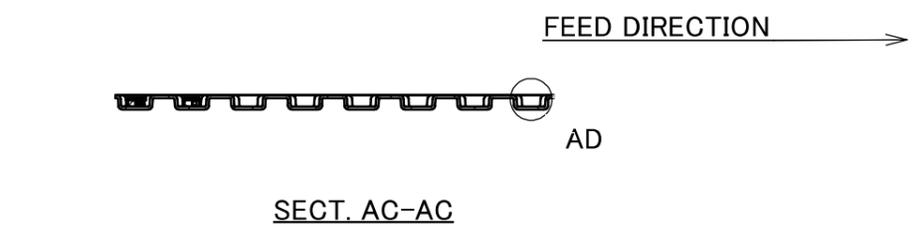
PART NO.	POS.	F	G	H	J	K	L	M	N	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20374-R10E-31	10	24.00	21.50	11.50	-	9.90	5.90	5.90	2.50	6000 PIECES / REEL	3 REELS / CARTON = 18000 PIECES
20374-R14E-31	14	24.00	21.50	11.50	-	11.50	7.50	7.50	2.50		
20374-R20E-31	20	32.00	26.00	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.



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



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 CABLIN®-SS RECEPTACLE ASSEMBLY	SCALE 1:1	I-PEX	
DWG.	DATE						
CHK.							
APP.							
DWG. No. 20374				SIZE A3	SHEET 4/4	REV. 33	