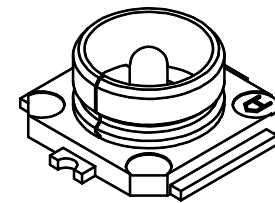
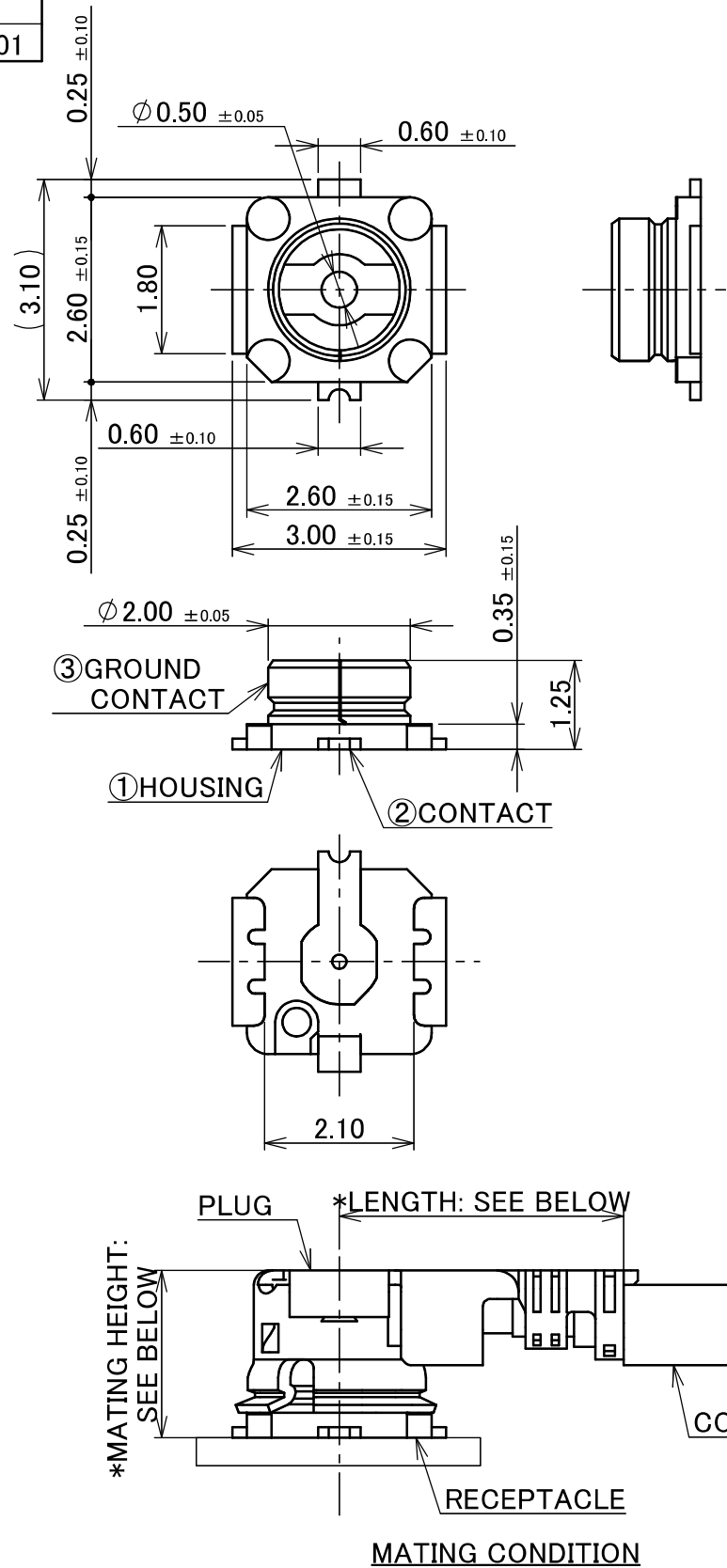


PART No.
20441-001E-01



- NOTES.
1. APPLICABLE CONNECTOR PART NUMBER:
20278-112R-**-
20351-*12R-37
20670-001R-**-
20767-001R-20
 2. COPLANARITY: 0.1mm MAX.
 3. THIS IS "Pb-FREE" CONNECTOR.

3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.03 μ m MIN. SOLDERING PART Au 0.03 μ m MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.10 μ m MIN. SOLDERING PART Au 0.03 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

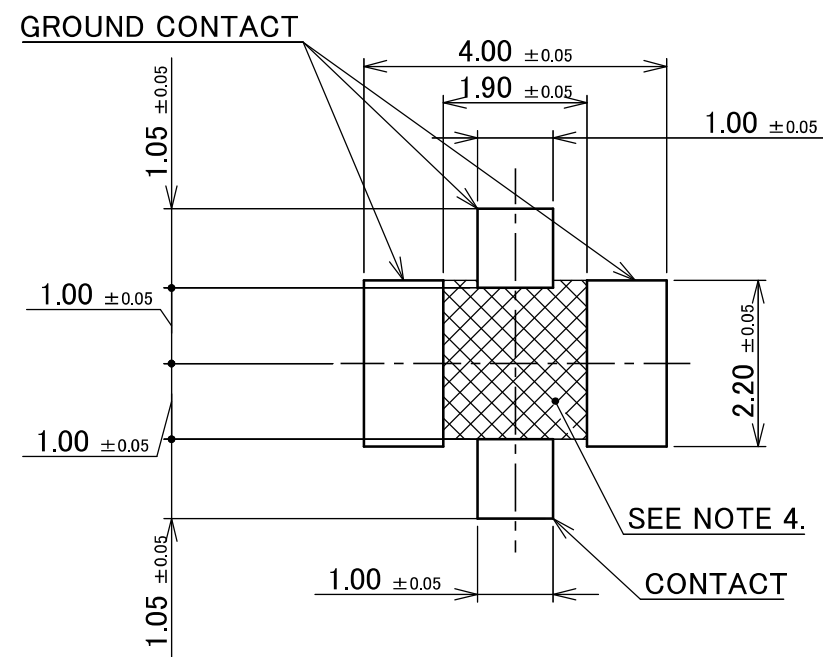
*LENGTH: 4.0±0.4 AT PLUG PART NO. 20670-001R-08, 20670-001R-13, 20670-001R-32
4.7±0.4 AT PLUG PART NO. 20670-001R-18, 20670-001R-37
5.6 AT PLUG PART NO. 20767-001R-20 (REFERENCE DIMENSION)

*MATING HEIGHT: 2.5 MAX. AT PLUG PART NO. 20670-001R-**-
(2.9 MAX. AT MHF I LK LOCKED CONDITION)
3.0 MAX. AT PLUG PART NO. 20767-001R-20

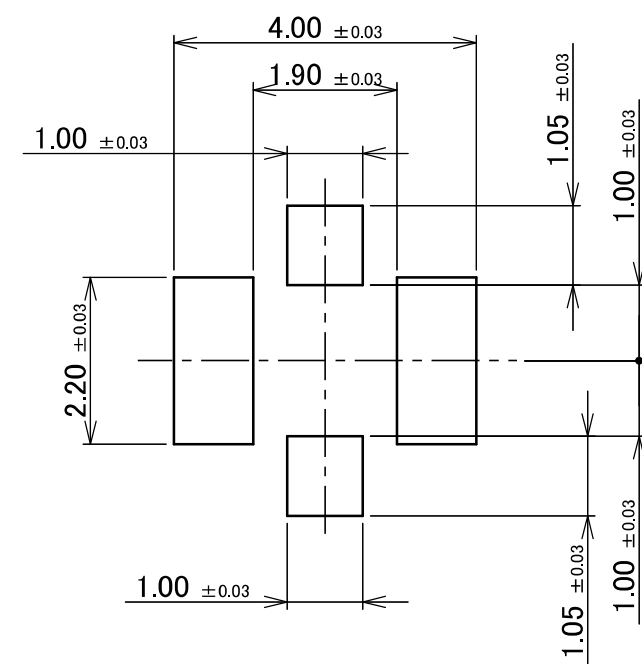
9	Z250723	TOI	2025/05/12	Yufu	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R4	CUSTOMER COPY					
8	Z241399	TOI	2024/10/08	Yufu	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5								
7	Z231442	K.T	2023/12/04	Y.H	GENERAL TOLERANCE.				TITLE MHF® I RECEPTACLE (4 PADS TYPE)	SCALE						
6	Z231116	Y.I	2023/09/15	Y.H	DWG.	DATE				10:1						
5	Z200262	TOI	2020/03/05	Y.H	K.Oobayashi 2007/07/10					UNIT						
4	Z181513	M.N	2018/12/10	Ken	CHK.					mm						
REV.	ECN	BY	DATE	APP.	APP.					DWG. No.			20441	SIZE	SHEET	REV.
REVISION RECORD					E.Kawabe											

ITEMS	SPECIFICATION			
RECOMMENDED APPLICABLE CONNECTOR PART NO.	20278-112R-** (MHF I PLUG 1.80, 1.32, 1.13, 0.81)	20351-112R-37 (MHF I PLUG 1.37)	20670-001R-** (MHF I PLUG Ni TOP 1.80, 1.37, 1.32, 1.13, 0.81)	20767-001R-20 (MHF I PLUG 2.00)
RATING VOLTAGE	60 V AC (R.M.S)			
RATING FREQUENCY	DC TO 9GHz			
OPERATING TEMPERATURE	233 TO 363K (−40°C TO +90°C)			
VSWR (MATED WITH SMA ADAPTER PART No. 90193-002)	RECEPTACLE: 1.30 MAX. AT 0.1-3 GHz, 1.40 MAX. AT 3-6 GHz, 1.80 MAX. AT 6-9 GHz			
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. AFTER TEST : 25 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : $\angle$ R 20 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL : 10 mohm MAX. AFTER TEST : 15 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : $\angle$ R 100 mohm MAX.	
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC, 1 MINUTE			
DURABILITY	30 CYCLES			
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.			
PRODUCT SPECIFICATION	PRS-1676	PRS-1726	PRS-2105	PRS-2490
TEST REPORT	TR-12044	TR-12096	TR-15059	TR-18041
PACKING STANDARD	300-596			
INSTRUCTION MANUAL	HIM-10002			HIM-17017
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 MHF® I RECEPTACLE (4 PADS TYPE)			SCALE		
DWG.	DATE						—		
CHK.							UNIT		
APP.							mm		
				DWG. No. 20441			SIZE	SHEET	REV.
							A3	2/6	9

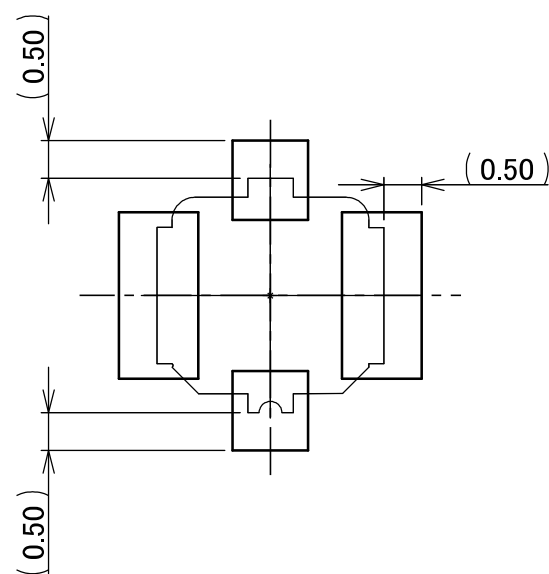


RECOMMENDED FOOTPRINT PATTERN

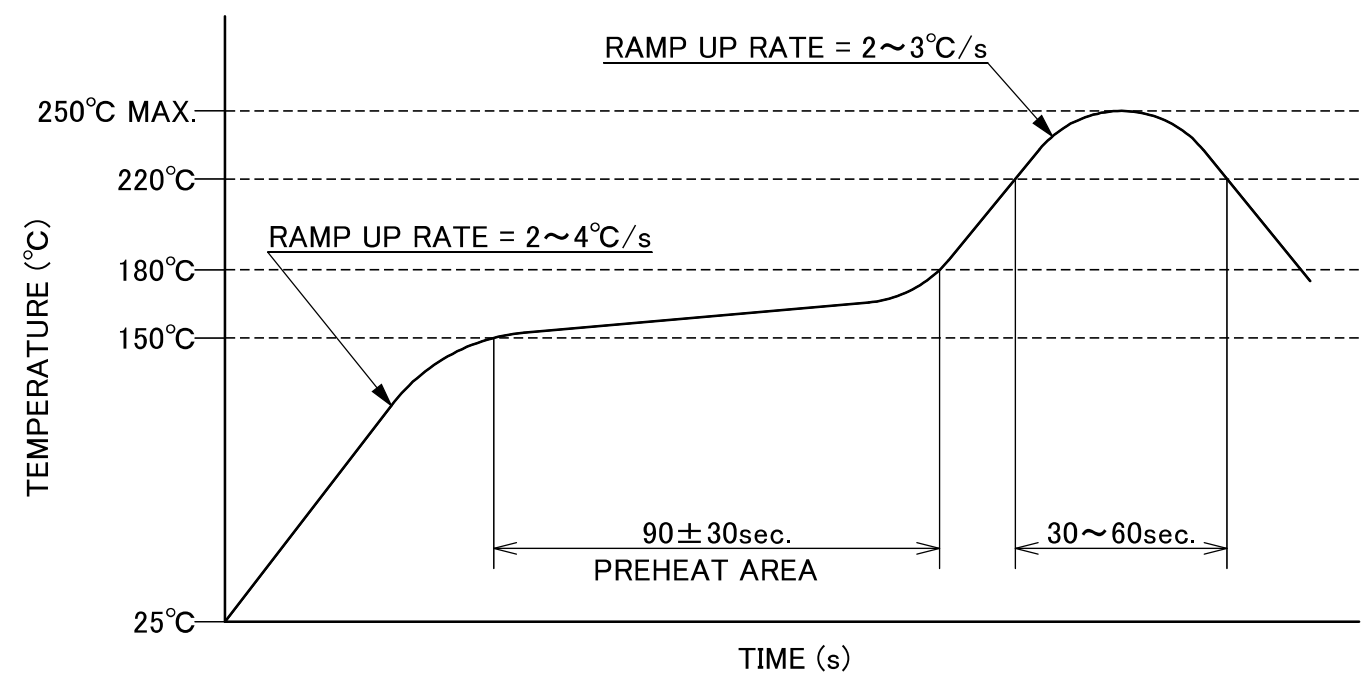


MASK THICKNESS: $t = 0.12$

METAL MASK

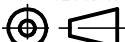


CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



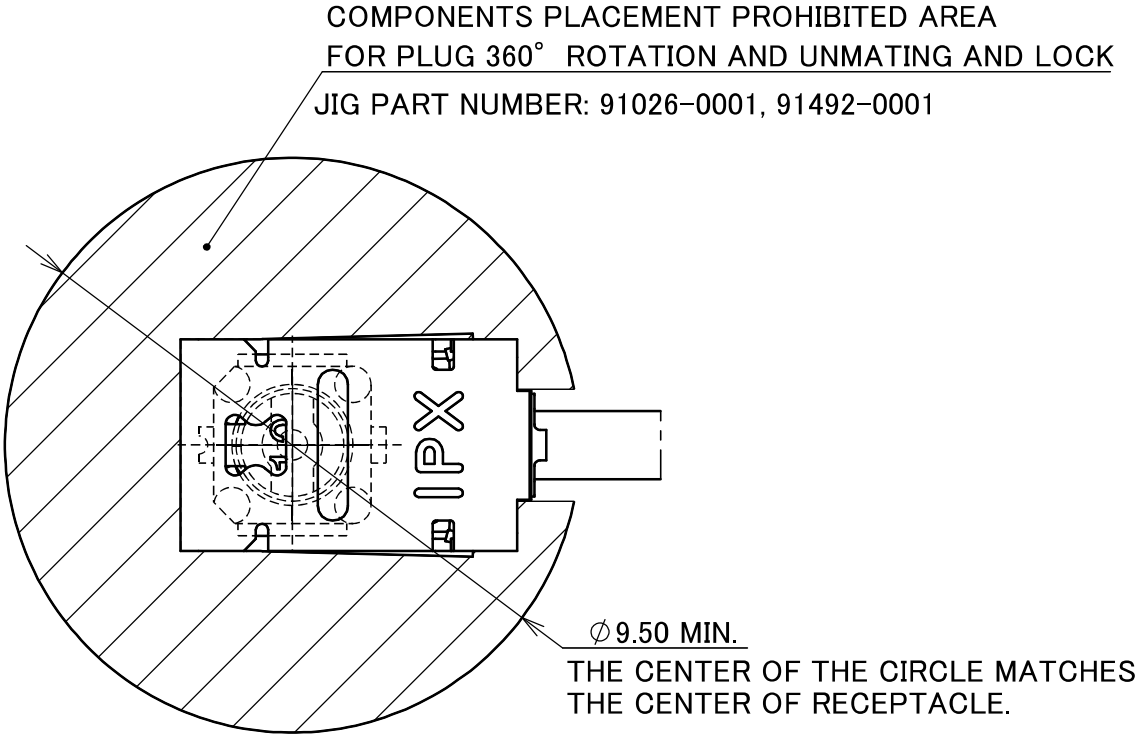
REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

NOTE
4. NO GROUND, SIGNAL, OR RESIST ALLOWED IN THIS AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R4	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® I RECEPTACLE (4 PADS TYPE)		SCALE	I-PEX	
DWG.	DATE					10:1		
CHK.						UNIT		
APP.						mm		
				DWG. No.	20441	SIZE	SHEET	REV.
						A3	3/6	9

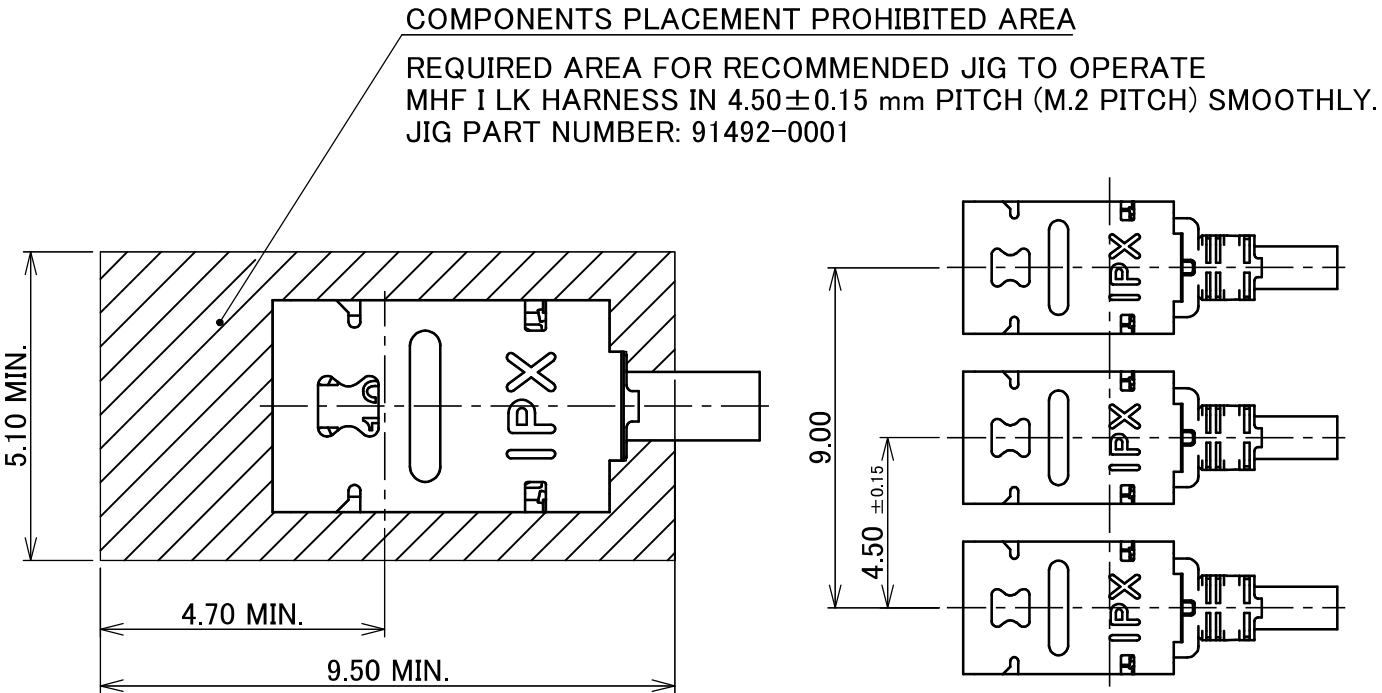
COMPONENT PLACEMENT PROHIBITED AREA FOR MHF I RECEPTACLE MATED WITH MHF I LK HARNESS REQUIRED AREA FOR RECOMMENDED JIG TO OPERATE

SINGLE CONNECTOR LAYOUT



MATING AND LOCK CONDITION
WITH MHF I LK HARNESS

MULTIPLE CONNECTORS LAYOUT

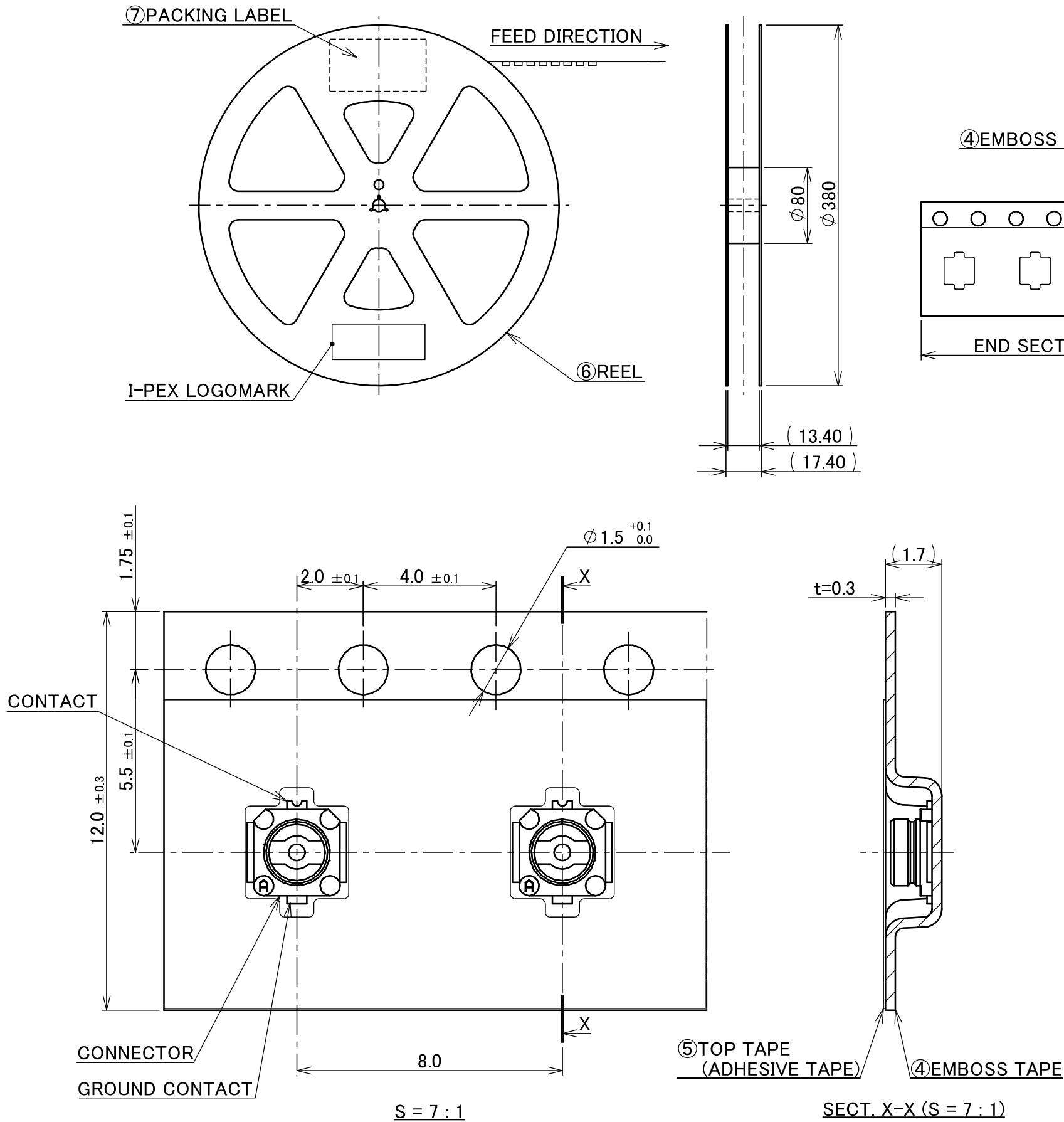


MATING AND LOCK CONDITION
WITH MHF I LK HARNESS NARROW PITCH

MHF I LK HARNESS UNLOCK CONDITION
NARROW PITCH DIMENSIONS
 (S = 5 : 1)

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 MHF® I RECEPTACLE (4 PADS TYPE)			SCALE		
DWG.	DATE						8:1		
CHK.							UNIT		
APP.							mm		
				DWG. No. 20441			SIZE	SHEET	REV.
							A3	4/6	9

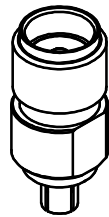
PART NO.	QTY. PER EMBOSS REEL (PIECES / REEL)	QTY. PER PACKING CARTON (REELS / CARTON)
20441-001E-01	5,000 / REEL	8 REELS / CARTON = 40,000 PIECES



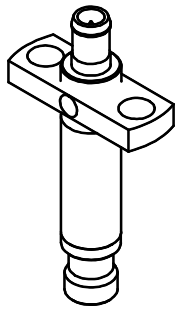
- NOTES.
- TAPING SPECIFICATION FOLLOWS JIS C 0806 (IEC 60286-3).
 - EMPTY SECTION OF LEADER AND END ON EACH END OF THE TAPE FOLLOW JIS C 0806 (IEC 60286-3).
 - TOP TAPE SHALL NOT STICK OUT FROM EMBOSS TAPE.
 - TOP TAPE SHALL NOT COVER FEED HOLE.

7	PACKING LABEL	-	-
6	REEL	PS	-
5	TOP TAPE	PET	-
4	EMBOSS TAPE	PS, t=0.3	-
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

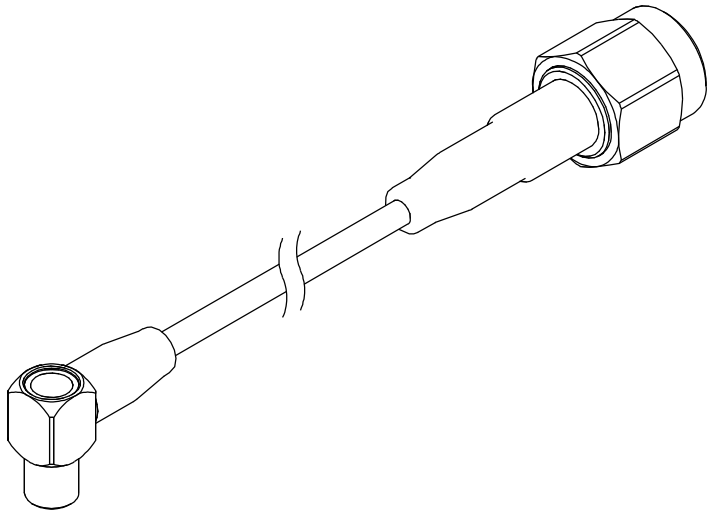
ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	± 0.3	PROJECTION	SERIES No.	CUSTOMER COPY		
6 MAX.	± 0.2	30 OVER 120 MAX.	± 0.5		R4			
GENERAL TOLERANCE.				TITLE		SCALE	I-PEX	
DWG. DATE				MHF [®] I RECEPTACLE (4 PADS TYPE)		1:X		
CHK.						UNIT		
APP.				DWG. No.		mm		
				20441		SIZE	SHEET	REV.
						A3	5/6	9



MHF I SMA ADAPTER
PART NO. 90193-002



MHF I RECEPTACLE HIGH CYCLE N45 C ADAPTER
PART NO. 90575-0001



MHF SERIES N45 C TO SMA ADAPTER CABLE
PART NO. 90577-****

* 90575-0001 AND 90577-**** SHOULD BE USED TOGETHER.

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 MHF® I RECEPTACLE (4 PADS TYPE)		SCALE	I-PEX	
DWG.	DATE					2:1		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20441		SIZE	SHEET	REV.
						A3	6/6	9