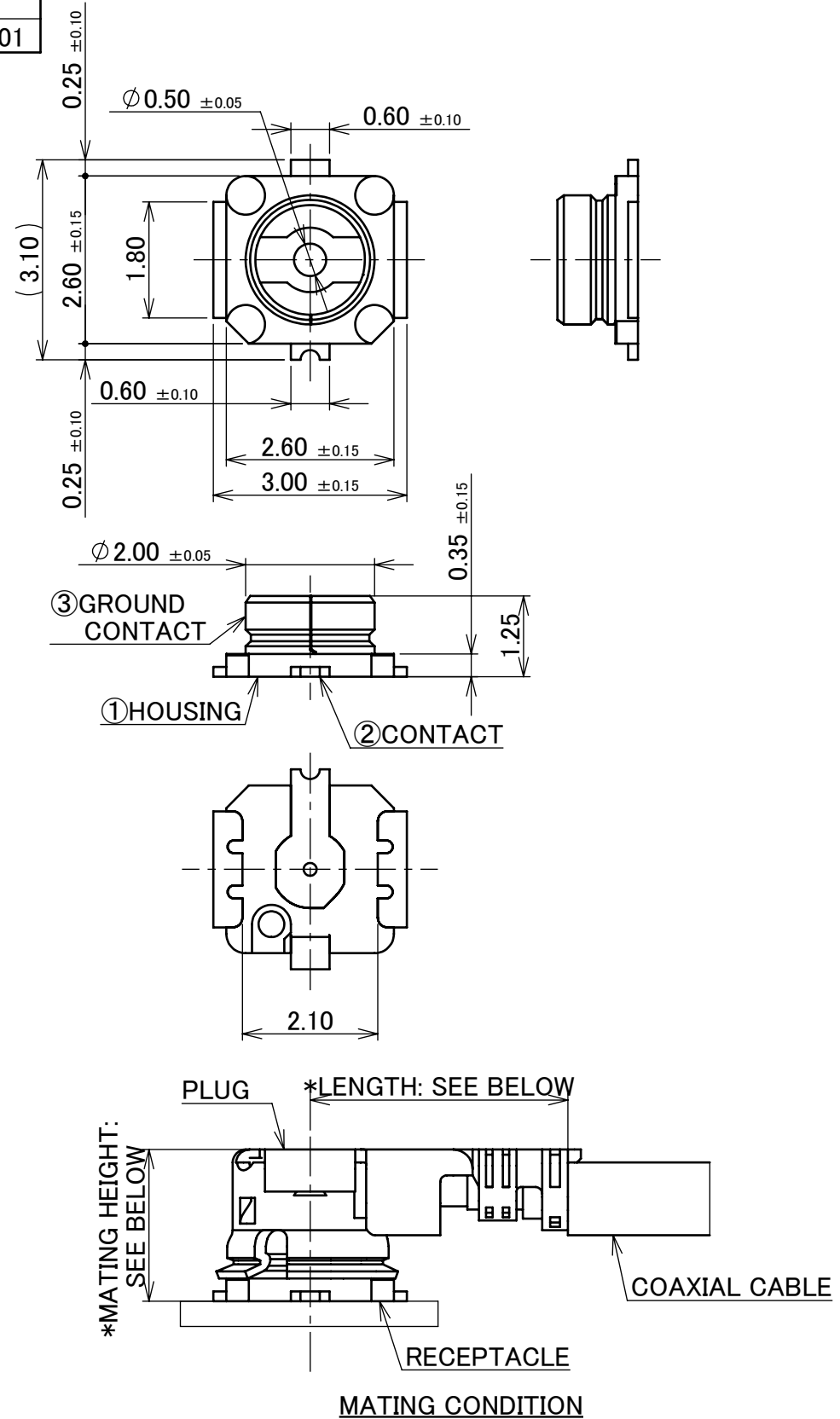


PART No.
20441-001E-01



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

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
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

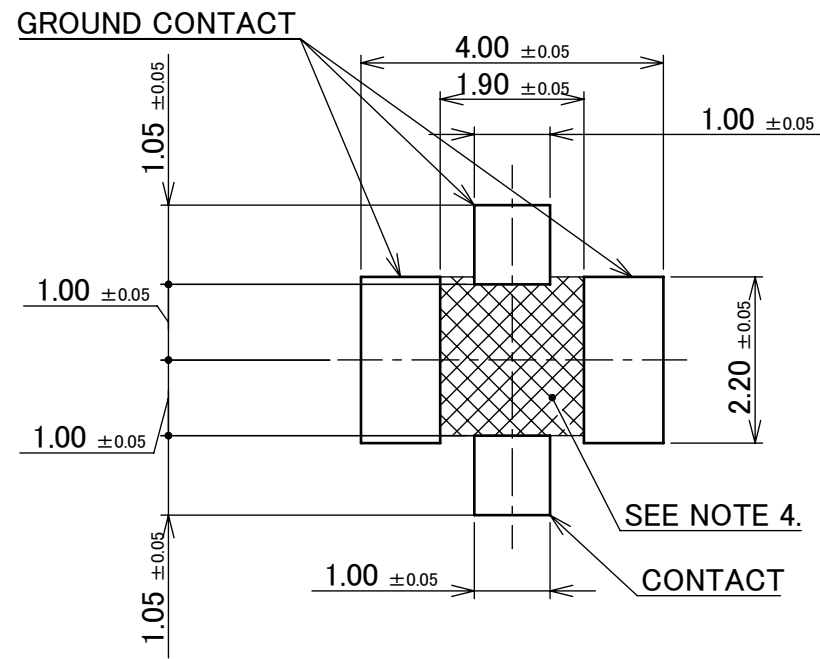
\*LENGTH: 4.0±0.4 AT PLUG PART NO. 20670-001R-08, 20670-001R-13, 20670-001R-32  
4.7±0.4 AT PLUG PART NO. 20670-001R-18, 20670-001R-37  
5.6 AT PLUG PART NO. 20767-001R-20 (REFERENCE DIMENSION)

\*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

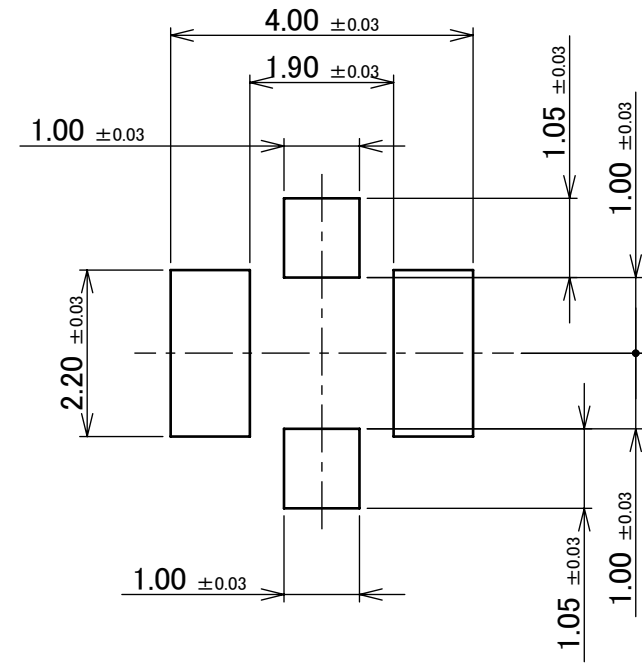
REV.	ECN	BY	DATE	APP.	APP.	APP.	APP.	PROJECTION	SERIES No.	TITLE	SCALE	SHEET	REV.	
8	Z241399	TOI	2024/10/08	Yufu	ANGLE	±2°	6 OVER 30 MAX.	±0.3	R4	MHF® I RECEPTACLE (4 PADS TYPE)	10:1	1/6	8	
7	Z231442	K.T	2023/12/04	Y.H	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5			mm			
6	Z231116	Y.I	2023/09/15	Y.H	GENERAL TOLERANCE.				DWG. No. 20441	A3	1/6	8		
5	Z200262	TOI	2020/03/05	Y.H	DWG.	K.Oobayashi		DATE					2007/07/10	
4	Z181513	M.N	2018/12/10	Ken	CHK.	Tom								
3	Z150615	Tad	2015/06/04	Tom	APP.	E.Kawabe								
REVISION RECORD														

ITEMS	SPECIFICATION			
	20278-001R-** (MHF I PLUG 1.80, 1.32, 1.13, 0.81)	20351-001R-** (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)
RECOMMENDED APPLICABLE CONNECTOR PART NO.				
RATING VOLTAGE	60 V AC (R.M.S)			
RATING FREQUENCY	DC~9GHz			
OPERATING TEMPERATURE	233~363K (-40°C~+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 : $\Delta$ R 20 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL : 10 mohm MAX. AFTER TEST : 15 mohm MAX.		INITIAL : 20 mohm MAX. AFTER TEST : $\Delta$ 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	$\pm 2^\circ$	6 OVER 30 MAX.	$\pm 0.3$	PROJECTION 	SERIES No. R4	CUSTOMER COPY		
6 MAX.	$\pm 0.2$	30 OVER 120 MAX.	$\pm 0.5$			SCALE -	<b>I-PEX</b>	
GENERAL TOLERANCE.				TITLE MHF® I RECEPTACLE (4 PADS TYPE)	UNIT mm			
DWG.	DATE				SIZE A3	SHEET 2/6		REV. 8
CHK.								
APP.				DWG. No. 20441				

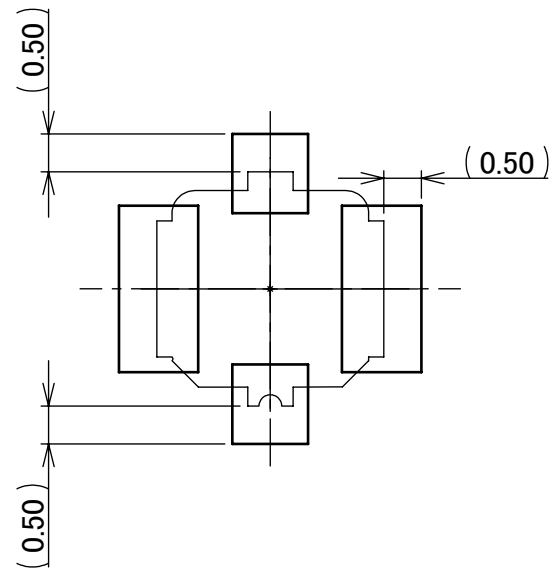


RECOMMENDED FOOTPRINT PATTERN

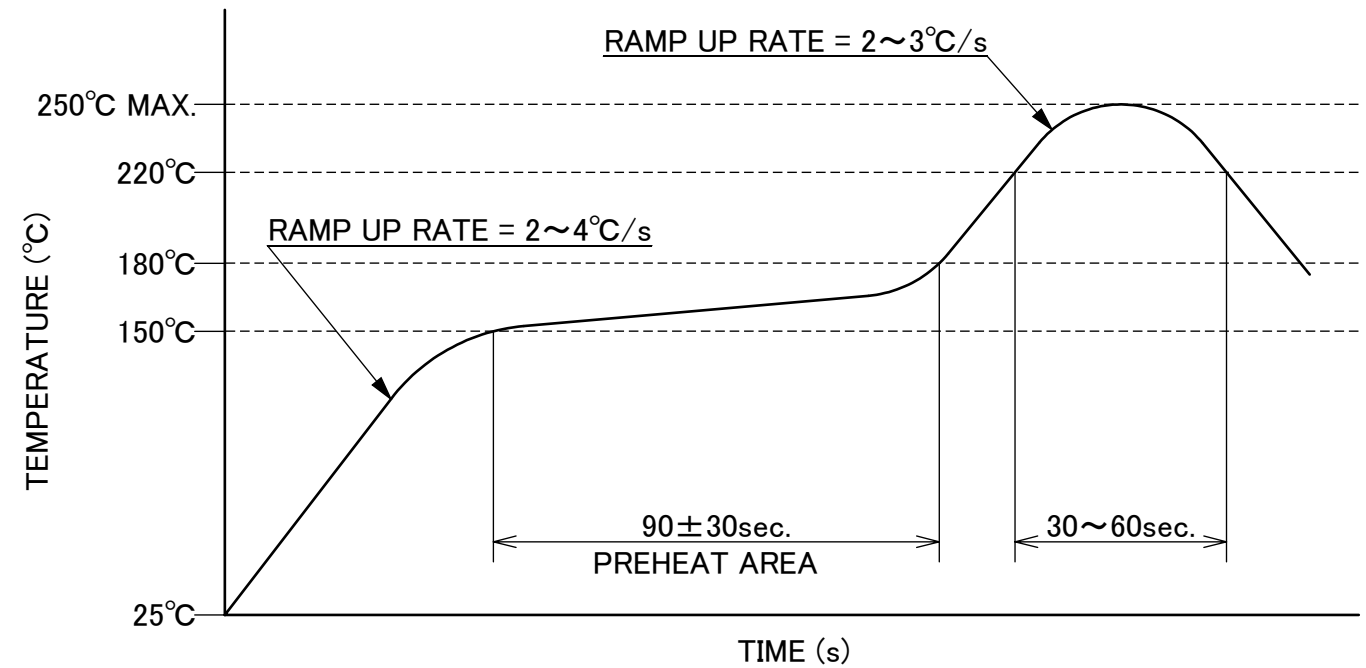


MASK THICKNESS:  $t = 0.12$

METAL MASK



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



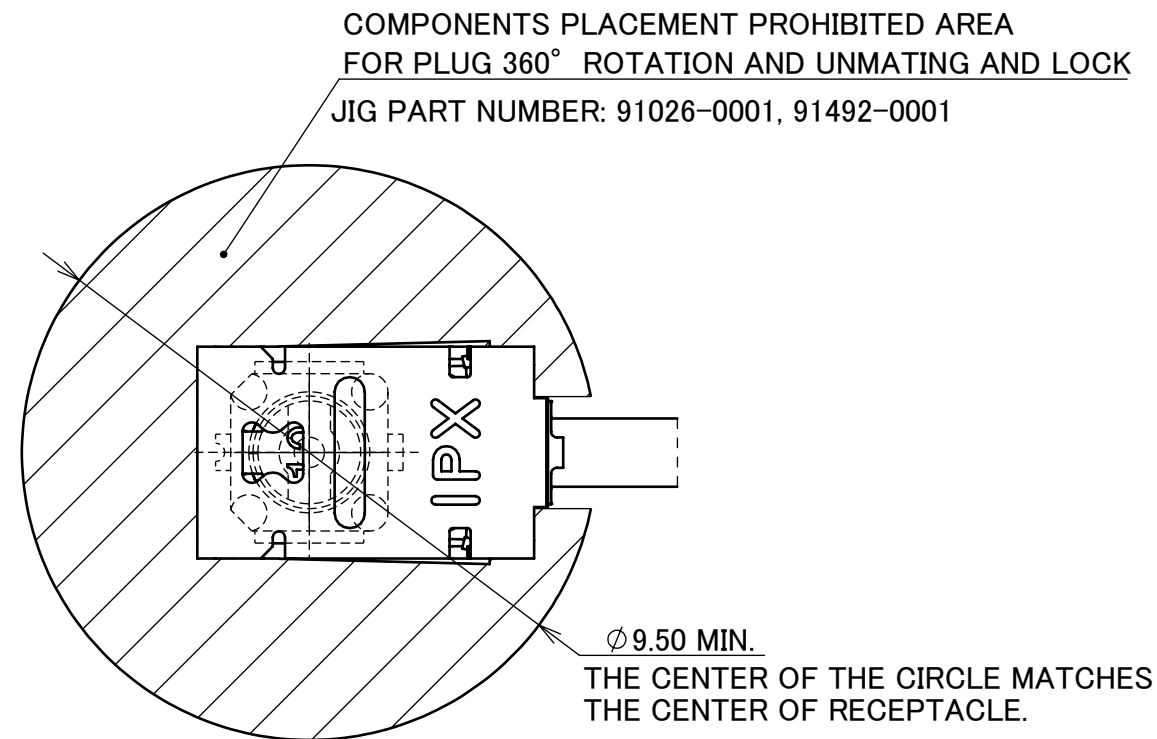
REFLOW TEMPERATURE PROFILE  
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

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

ANGLE	$\pm 2^\circ$	6 OVER 30 MAX.	$\pm 0.3$	PROJECTION	SERIES No.	CUSTOMER COPY			
	6 MAX.	$\pm 0.2$	30 OVER 120 MAX.	$\pm 0.5$		R4			
GENERAL TOLERANCE.				TITLE		SCALE	<b>I-PEX</b>		
DWG.	DATE			MHF® I RECEPTACLE (4 PADS TYPE)		10:1			
CHK.						UNIT			
APP.						mm			
				DWG. No.	20441	SIZE	SHEET	REV.	
						A3	3/6	8	

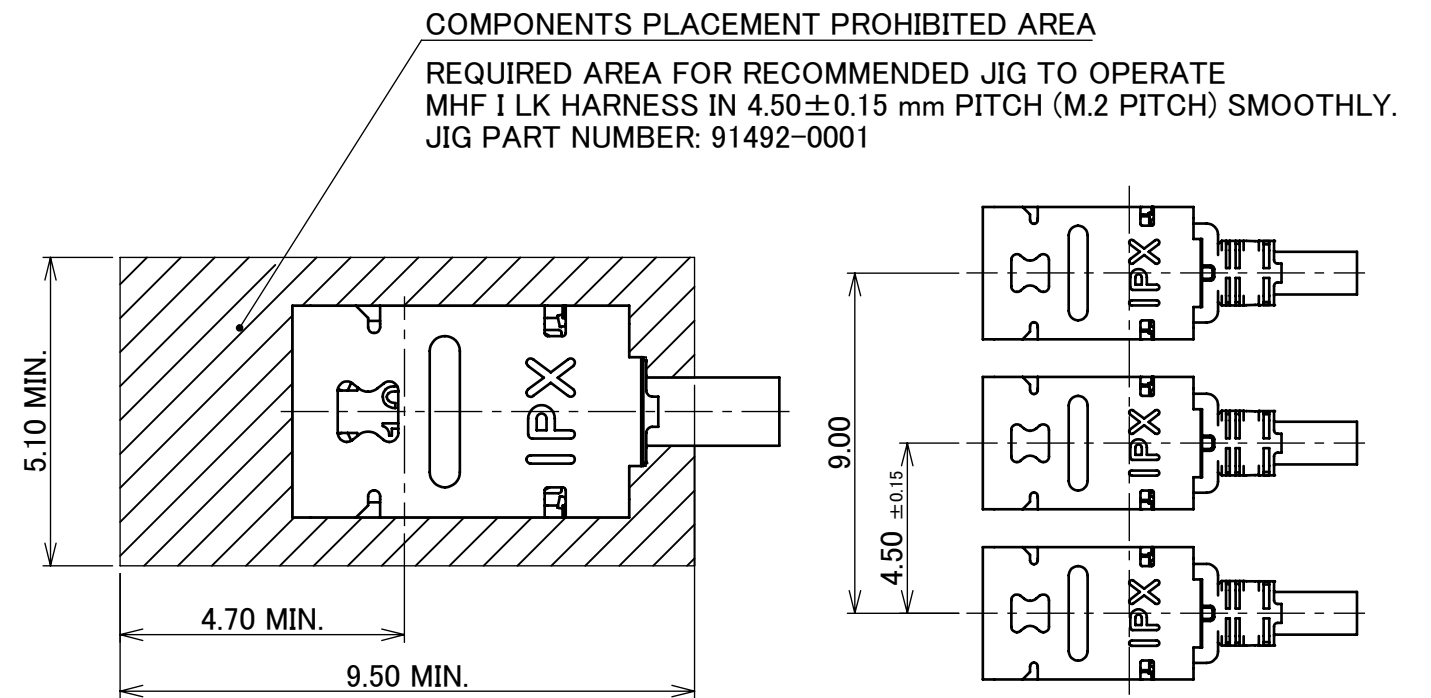
# COMPONENT PLACEMENT PROHIBITED AREA FOR MHF I RECEPTACLE MATED WITH MHF I LK HARNESS REQUIRED AREA FOR RECOMMENDED JIG TO OPERATE

## SINGLE CONNECTOR LAYOUT



MATING AND LOCK CONDITION  
WITH MHF I LK HARNESS

## MULTIPLE CONNECTORS LAYOUT

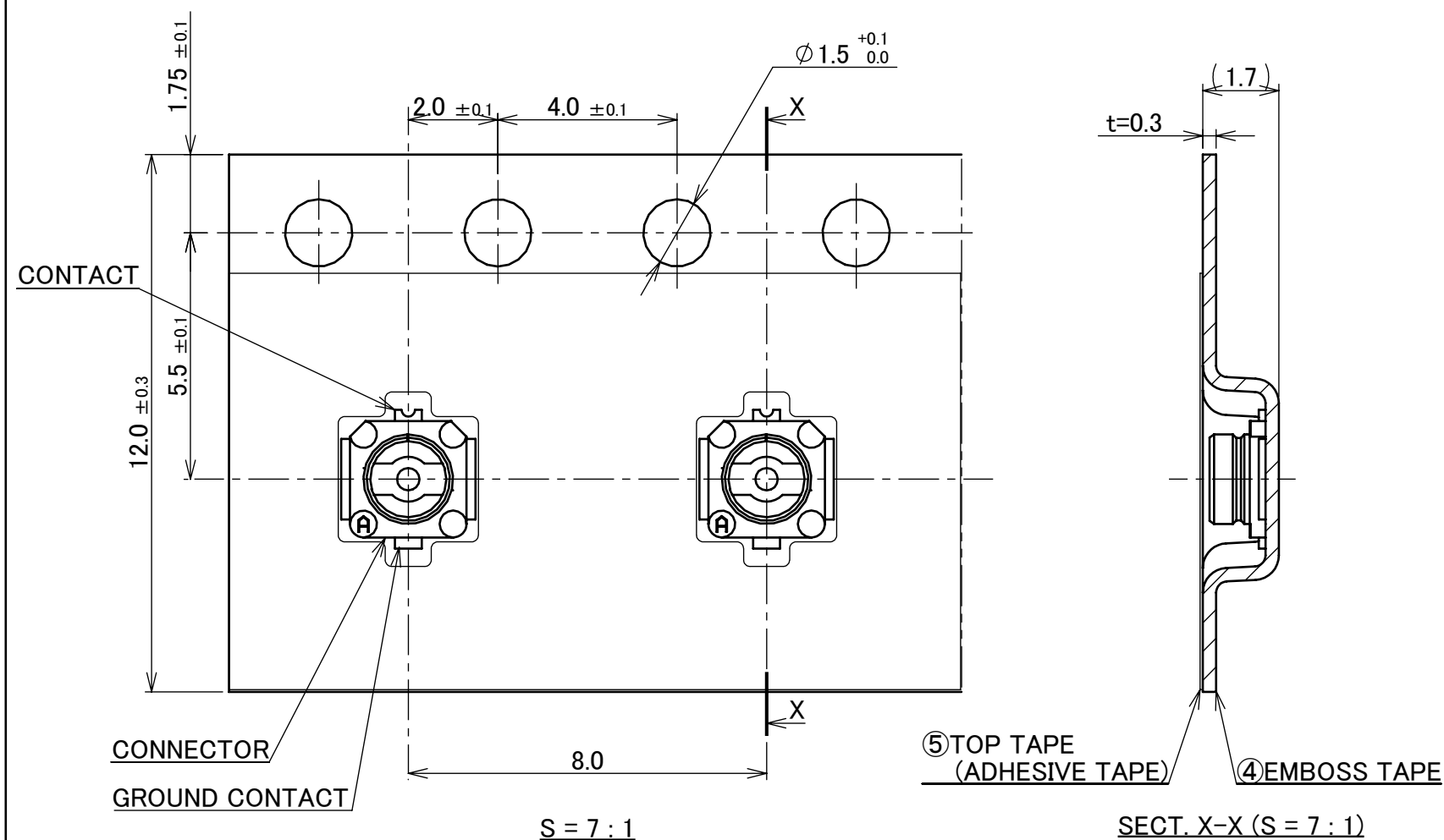
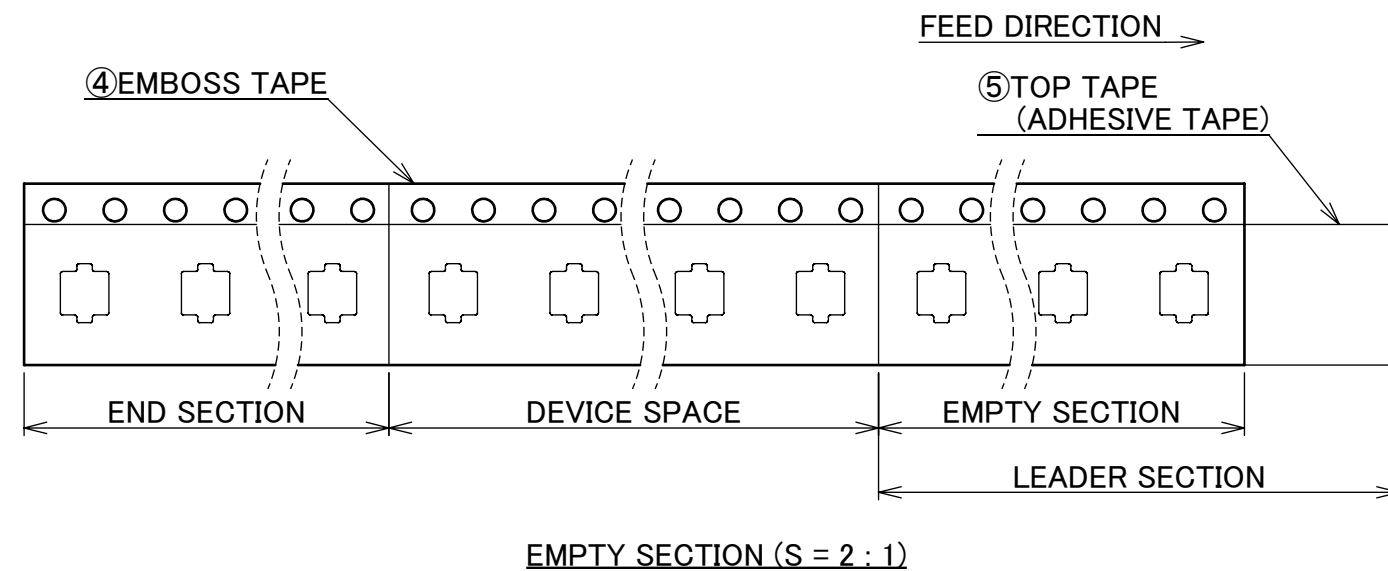
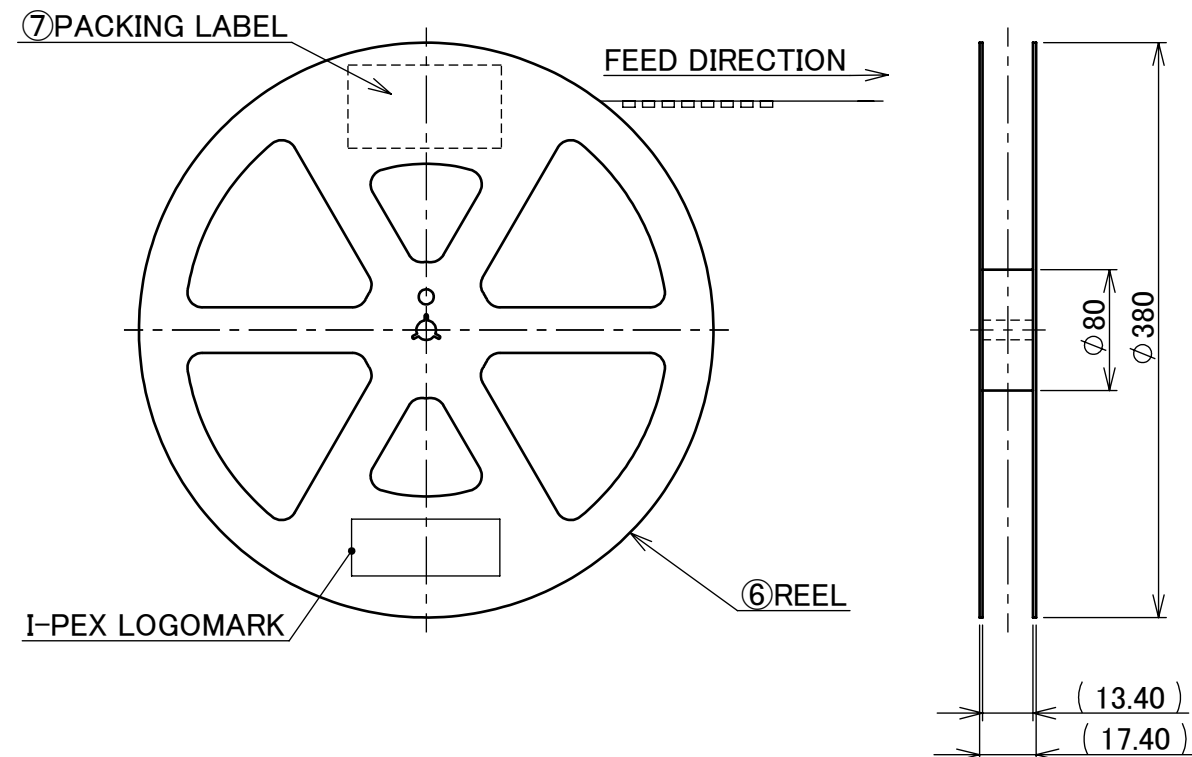


MATING AND LOCK CONDITION  
WITH MHF I LK HARNESS NARROW PITCH

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 8:1	UNIT <b>I-PEX</b>		
DWG.	DATE							
CHK.								
APP.								
				DWG. No.	20441	SIZE	SHEET	REV.
						A3	4/6	8

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.

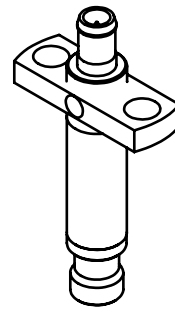
- TAPING SPECIFICATION FOLLOWS JIS C 0806 (IEC 60286-3).
- MAKE EMPTY SECTION OF LEADER AND END ON EACH END OF THE TAPE.
- TOP TAPE SHALL NOT STICK OUT FROM EMBOSS TAPE.
- TOP TAPE SHALL NOT COVER FEED HOLE.

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

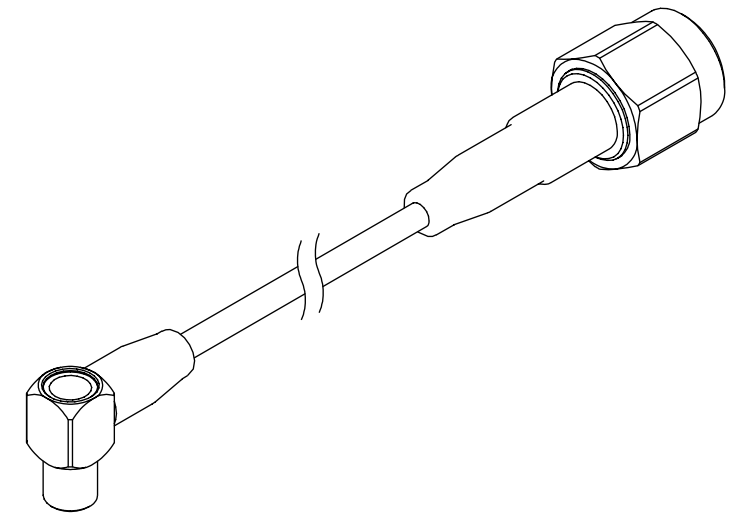
ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION ⊕	SERIES No. R4	CUSTOMER COPY
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5			
GENERAL TOLERANCE.				TITLE MHF® I RECEPTACLE (4 PADS TYPE)	SCALE 1:X	UNIT mm
DWG.	DATE					
CHK.						
APP.						
DWG. No. 20441				SIZE	SHEET	REV.
				A3	5/6	8



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	<b>I-PEX</b>			
DWG.	DATE					2:1				
CHK.						UNIT				mm
APP.						SIZE				SHEET
				DWG. No.	20441	A3	6/6	8		