

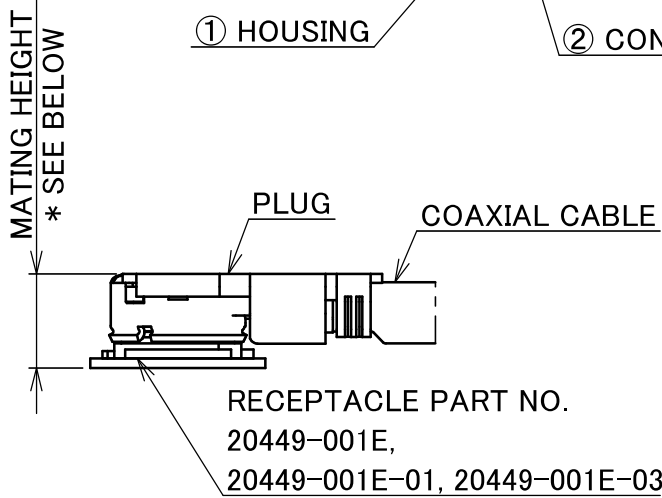
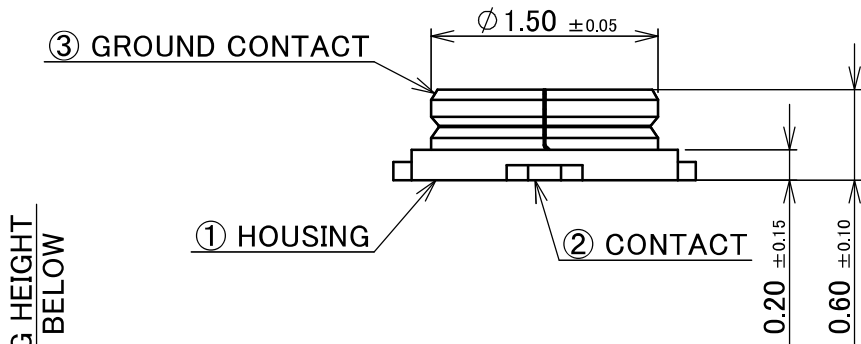
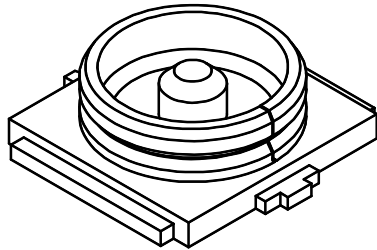
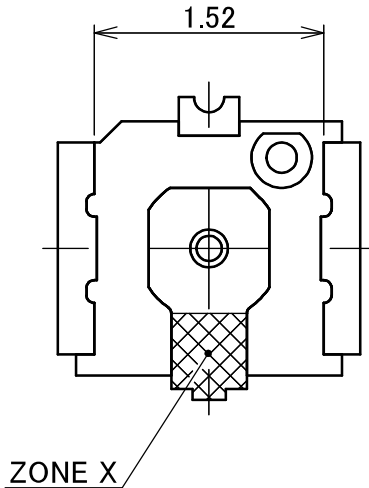
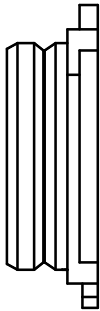
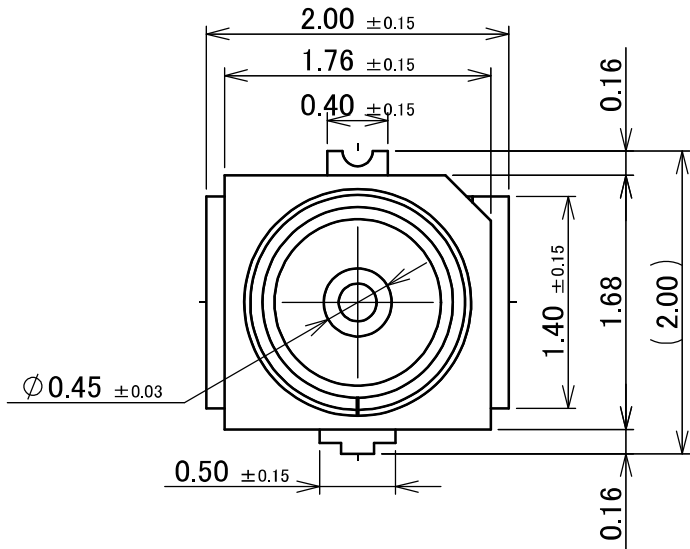
PART NO.	PACKING QUANTITY / REEL	CONTACT PLATING			GROUND CONTACT PLATING		
		CONTACT PART	SOLDERING PART	ALL OVER	CONTACT PART	SOLDERING PART	ALL OVER
20449-001E	10,000 PCS.	TOP: Au 0.05 μ m MIN.	TOP	Ni 1.00 μ m MIN.	TOP: Au 0.03 μ m MIN.	TOP: Au 0.01 μ m MIN.	Ni 1.00 μ m MIN.
20449-001E-01			OTHER: Au 0.01 μ m MIN. ZONE X: Au 0.03 μ m MIN.				
20449-001E-03		TOP: Au 0.01 μ m MIN. MIDDLE: Pd-Ni 0.02 μ m MIN.	TOP: Au 0.01 μ m MIN. MIDDLE: Pd-Ni 0.02 μ m MIN.		TOP: Au 0.01 μ m MIN. MIDDLE: Pd-Ni 0.02 μ m MIN.	TOP: Au 0.01 μ m MIN. MIDDLE: Pd-Ni 0.02 μ m MIN.	



Halogen Free



RoHS Compliant



* MATING HEIGHT
1.2 MAX. WITH 20611-001R, 20572-001R-08,
20448-00*R-081, 20448-001R-081E
1.4 MAX. WITH 20565-001R-**
1.7 MAX. WITH 20632-001R-37
(2.0 MAX. WITH MHF 4L LK LOCKED CONDITION)

MATING CONDITION
WITH MHF 4/MHF 4L PLUG
(S = 10 : 1)

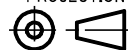
- NOTES.
1. APPLICABLE CONNECTOR (CABLE SIZE)
MHF 4 PLUG: 20611-001R (Φ 0.81)
20448-00*R-081 (Φ 0.81)
20448-001R-081E (Φ 0.81)
MHF 4L PLUG: 20572-001R-08 (Φ 0.64, Φ 0.81)
20565-001R-** (Φ 0.83, Φ 0.95, Φ 1.13)
20632-001R-37 (Φ 1.37)
 2. COPLANARITY: 0.1 mm MAX.
 3. THIS IS " Pb-FREE " CONNECTOR.
 4. CHARACTERISTIC IMPEDANCE: 50 Ω (NOMINAL VALUE)

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

22	ZC00099	TOI	2025/09/17	Yufu	ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No.	CUSTOMER COPY			
21	Z230809	Y.I	2023/07/13	M.T	6 MAX.	±0.2	30 OVER 120 MAX.	±0.5		R5				
20	Z230517	K.M	2023/05/10	Y.H	GENERAL TOLERANCE.				TITLE MHF® 4 RECEPTACLE	SCALE		I-PEX		
19	Z230390	TOI	2023/04/04	Y.H	DWG.	DATE		20:1						
18	Z230201	TOI	2023/02/20	Y.H	K.Oobayashi 2007/11/12									
17	Z221366	M.H	2022/12/19	Y.H	CHK.	—				UNIT				
REV.	ECN	BY	DATE	APP.	APP.				DWG. No.	20449		SIZE	SHEET	REV.
REVISION RECORD					E.Kawabe						A3	1/7	22	

FOR MHF 4 PLUG

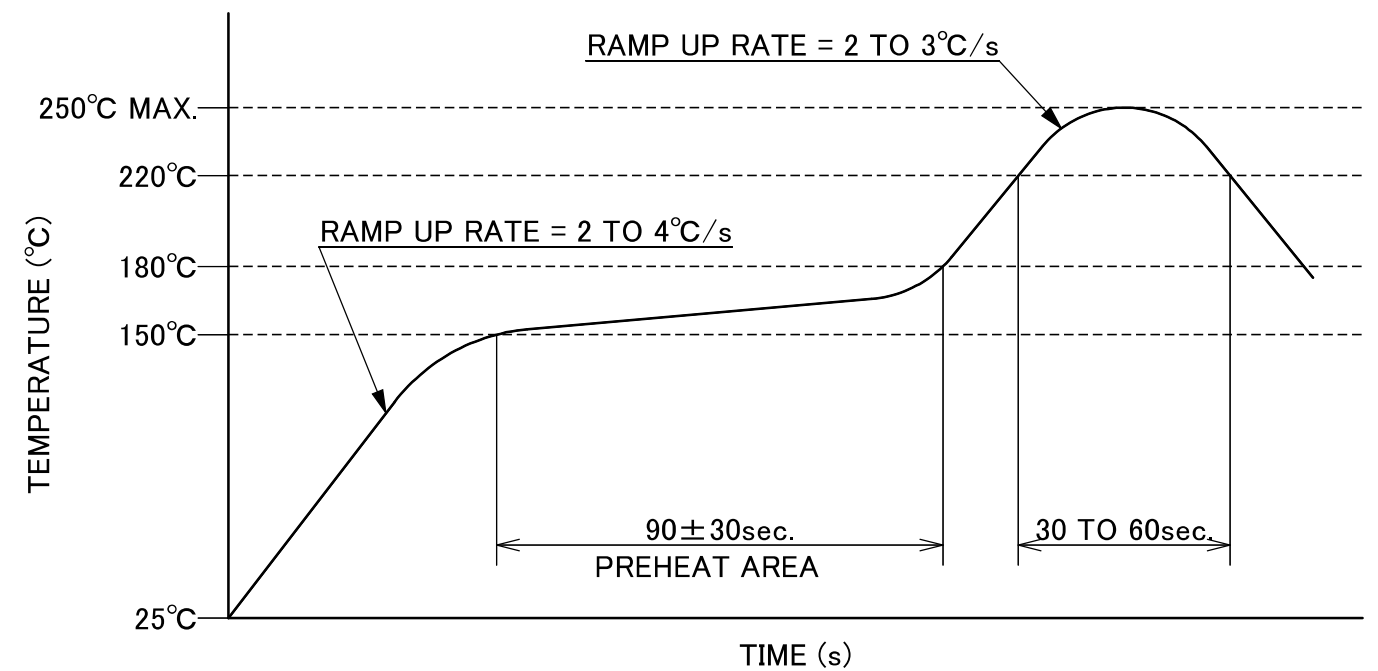
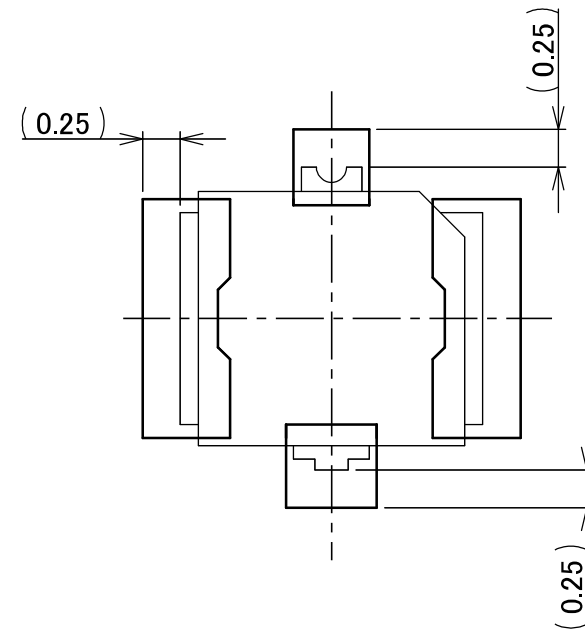
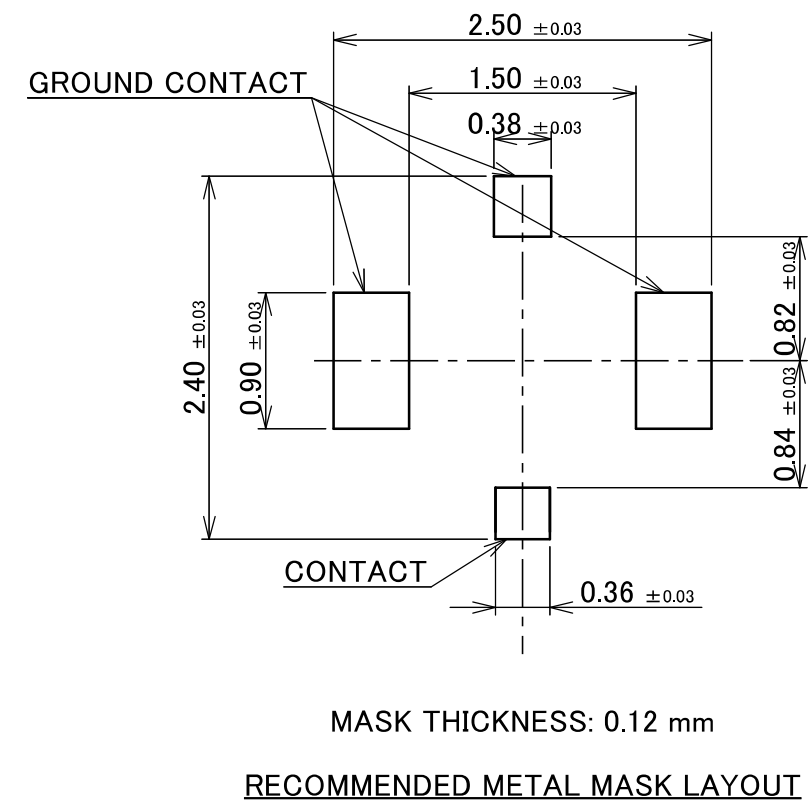
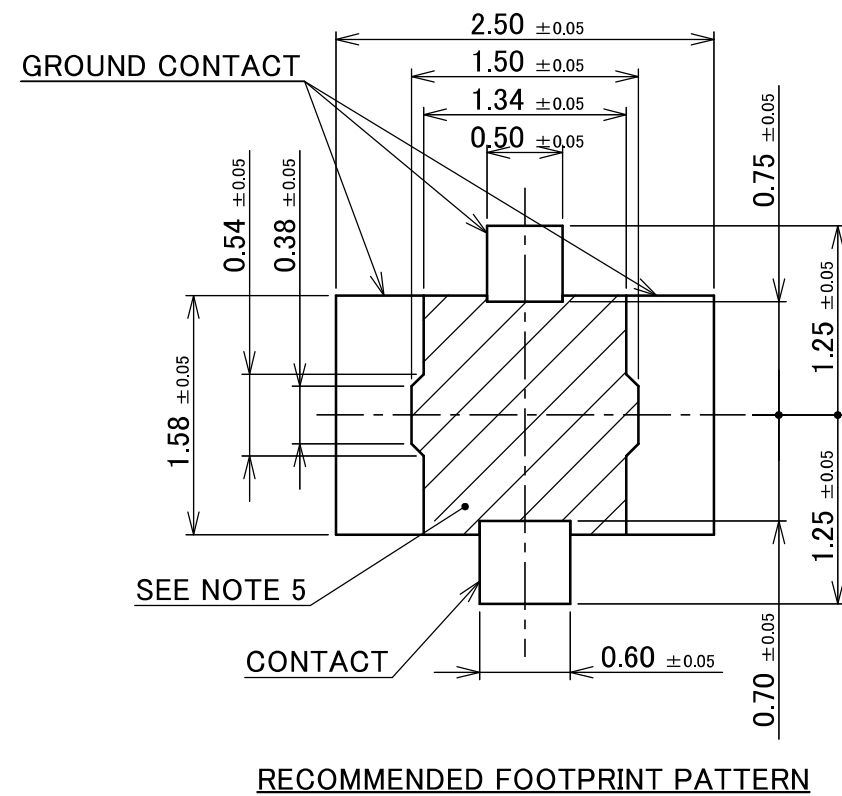
ITEMS	SPECIFICATION	
APPLICABLE CONNECTOR PART No.	20611-001R (CABLE Φ0.81 TYPE)	20448-001R (CABLE Φ0.81 TYPE)
RATED VOLTAGE	60 V AC (R.M.S)/DC	
RATED FREQUENCY	DC TO 9GHz	
OPERATING TEMPERATURE	233 TO 363 K (−40°C TO +90°C)	
CHARACTERISTIC IMPEDANCE	50 ohm (NOMINAL VALUE)	
VSWR (MATED WITH SMA ADAPTER PART No. 90449-002)	1.30 MAX. AT 0.1-3GHz, 1.40 MAX. AT 3-6GHz, 1.55 MAX. AT 6-9GHz	
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : ΔR 20 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : ΔR 100 mohm MAX.	INITIAL : 20 mohm MAX. / AFTER TEST : ΔR 20 mohm MAX.
INSULATION RESISTANCE	INITIAL : 500 Mohm MIN. / AFTER TEST : 100 Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC 1 MINUTE	
DURABILITY	30 CYCLES	
MATING FORCE (INITIAL / AFTER TEST)	-	
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL : 4 N MIN. / AFTER TEST : 2 N MIN.	
PRODUCT SPECIFICATION	PRS-2530	PRS-1745
TEST REPORT	TR-18086	TR-12118
PACKING STANDARD	300-604	
INSTRUCTION MANUAL	HIM-10003	
APPEARANCE CRITERIA No.	QLS-A***	

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION 	SERIES No. R5	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® 4 RECEPTACLE		SCALE	I-PEX	
DWG.	DATE					—		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20449		SIZE	SHEET	REV.
							2/7	

FOR MHF 4L PLUG

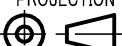
ITEMS	SPECIFICATION			
APPLICABLE CONNECTOR PART No.	20572-001R-08 (CABLE Φ0.64 TYPE) (CABLE Φ0.81 TYPE)	20565-001E-13 (CABLE Φ0.95 TYPE) (CABLE Φ1.13 TYPE)	20565-001R-83 (CABLE Φ0.83 TYPE)	20632-001R-37 (CABLE Φ1.37 TYPE)
RATED VOLTAGE	60 V AC (R.M.S)/DC			
RATED FREQUENCY	DC TO 9GHz			
OPERATING TEMPERATURE	233 TO 363 K (-40℃ TO +90℃)			
CHARACTERISTIC IMPEDANCE	50 ohm (NOMINAL VALUE)			
VSWR (MATED WITH SMA ADAPTER PART No. 90449-002)	1.30 MAX. AT 0.1-3GHz, 1.40 MAX. AT 3-6GHz, 1.55 MAX. AT 6-9GHz			
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : $\angle$ R 20 mohm MAX.			
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : $\angle$ R 20 mohm MAX.			
INSULATION RESISTANCE	INITIAL : 500 Mohm MIN. / AFTER TEST : 100 Mohm MIN.			
DIELECTRIC WITHSTANDING VOLTAGE	200 V AC 1 MINUTE			
DURABILITY	30 CYCLES			
MATING FORCE (INITIAL / AFTER TEST)	INITIAL : 30 N MAX. / AFTER TEST : 30 N MAX.			
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL : 20 N MAX. 5 N MIN. / AFTER TEST : 20 N MAX. 3 N MIN.			
PRODUCT SPECIFICATION	PRS-1944 (CABLE Φ0.64 TYPE) PRS-1772 (CABLE Φ0.81 TYPE)	PRS-2051 (CABLE Φ0.95 TYPE) PRS-1772 (CABLE Φ1.13 TYPE)	PRS-2062 (CABLE Φ0.83 TYPE)	PRS-2008 (CABLE Φ1.37 TYPE)
TEST REPORT	TR-14078 (CABLE Φ0.64 TYPE) TR-13011 (CABLE Φ0.81 TYPE)	TR-14142 (CABLE Φ0.95 TYPE) TR-13011 (CABLE Φ1.13 TYPE)	TR-15011 (CABLE Φ0.83 TYPE)	TR-14100 (CABLE Φ1.37 TYPE)
PACKING STANDARD	300-604			
INSTRUCTION MANUAL	HIM-12011	HIM-12012		HIM-16011
APPEARANCE CRITERIA No.	QLS-A***			

ANGLE	±2°	6 OVER 30 MAX.	±0.3	PROJECTION	SERIES No. R5	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® 4 RECEPTACLE		SCALE	I-PEX	
DWG.	DATE					—		
CHK.						UNIT		
APP.						mm		
				DWG. No.		SIZE	SHEET	REV.
				20449		A3	3/7	22



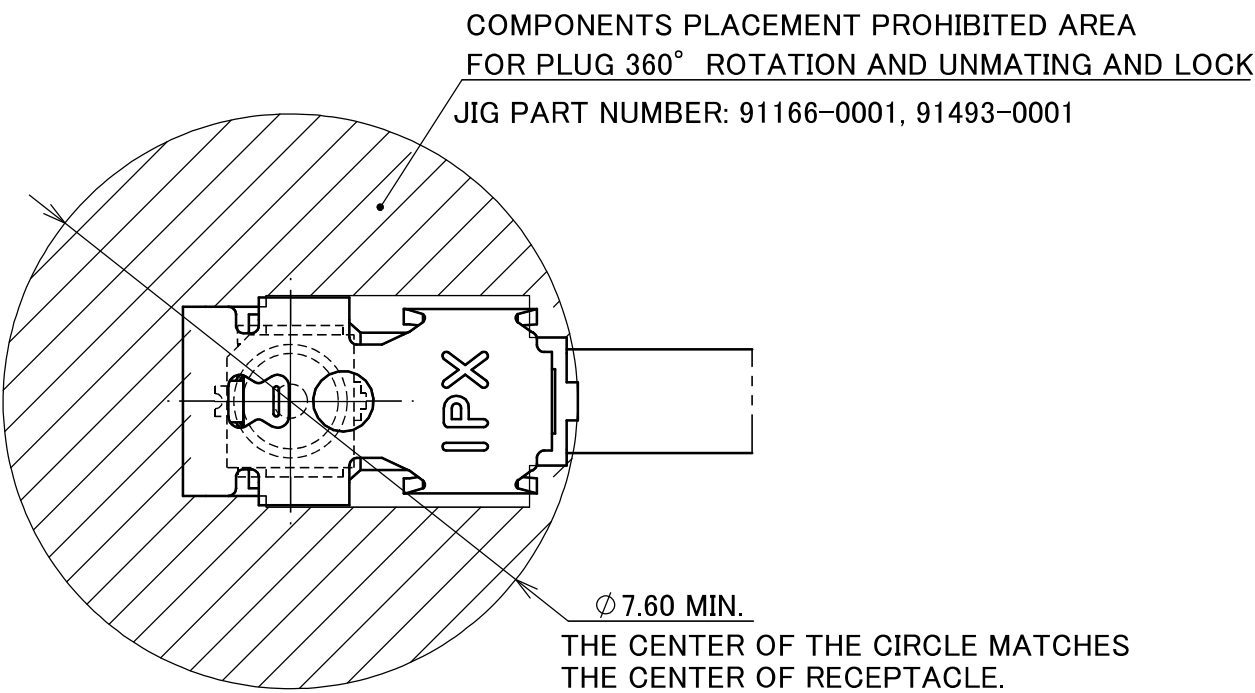
CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN

NOTE 5. NO GROUND, SIGNAL, AND RESIST ALLOWED IN THIS AREA.

ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R5	CUSTOMER COPY			
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5						
GENERAL TOLERANCE.				TITLE MHF® 4 RECEPTACLE		SCALE	I-PEX		
DWG.	DATE					20:1			
CHK.						UNIT			
						mm			
APP.				DWG. No.	20449		SIZE	SHEET	REV.
				A3	4/7	22			

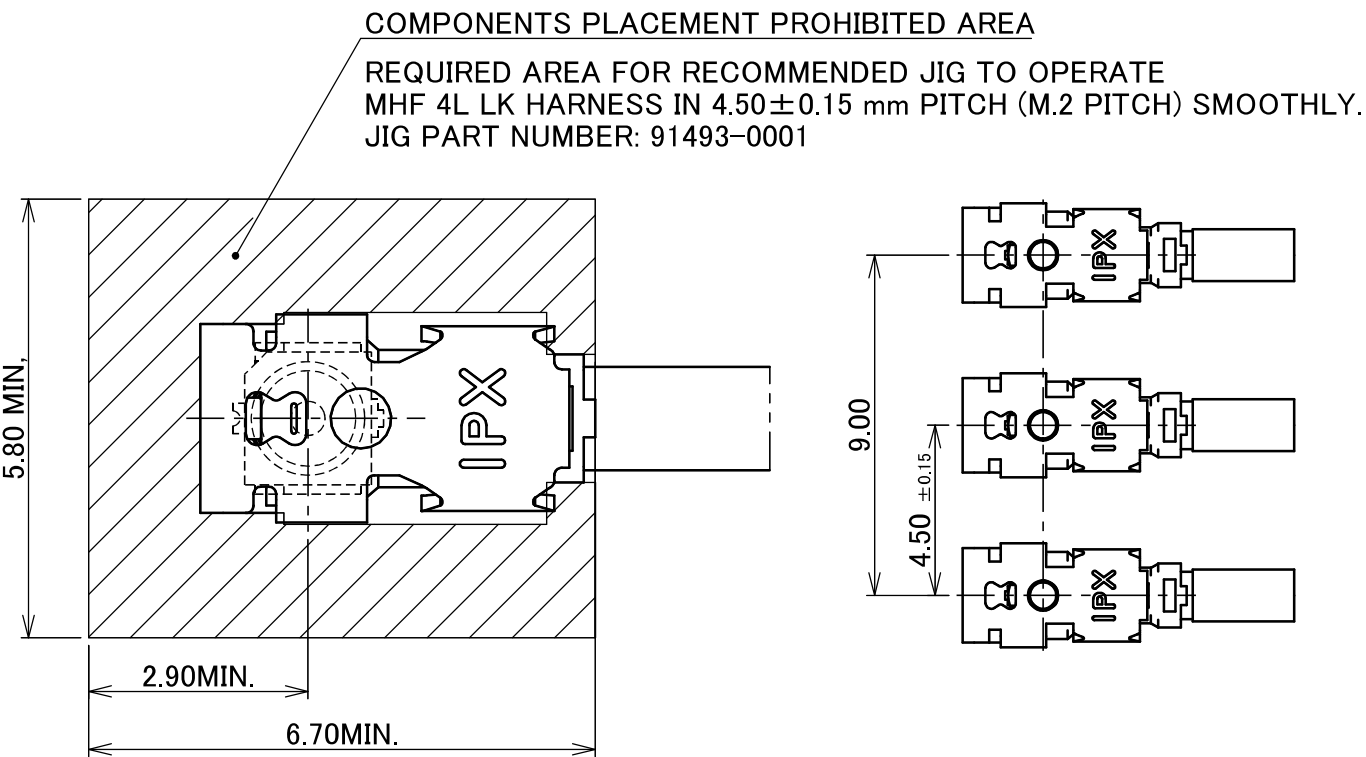
COMPONENT PLACEMENT PROHIBITED AREA FOR MHF 4 RECEPTACLE MATED WITH MHF 4L LK HARNESS REQUIRED AREA FOR RECOMMENDED JIG TO OPERATE

SINGLE CONNECTOR LAYOUT



MATING AND LOCK CONDITION
WITH MHF 4L LK HARNESS

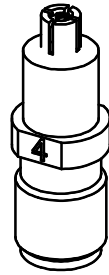
MULTIPLE CONNECTORS LAYOUT



MATING AND LOCK CONDITION
WITH MHF 4L LK HARNESS NARROW PITCH

MHF 4L LK HARNESS UNLOCK CONDITION
NARROW PITCH DIMENSIONS
 (S = 5 : 1)

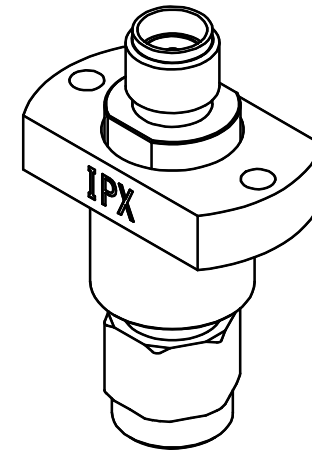
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6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® 4 RECEPTACLE		SCALE	I-PEX	
DWG.	DATE					10:1		
CHK.						UNIT		
APP.						mm		
				DWG. No. 20449		SIZE	SHEET	REV.
						A3	5/7	22



MHF 4 (4L) SMA ADAPTER
PART NO. 90449-002

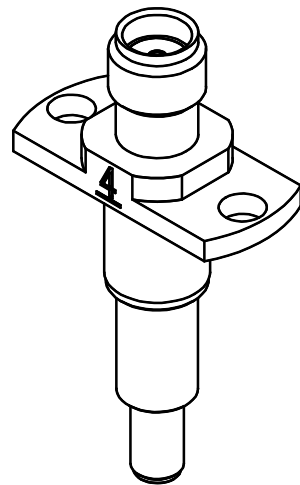


MHF 4 RECEPTACLE HIGH CYCLE ATTACHMENT
PART NO. 90683-0001

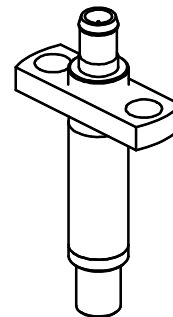


MHF SERIES HIGH CYCLE SMA ADAPTER BASE UNIT
PART NO. 90684-0001

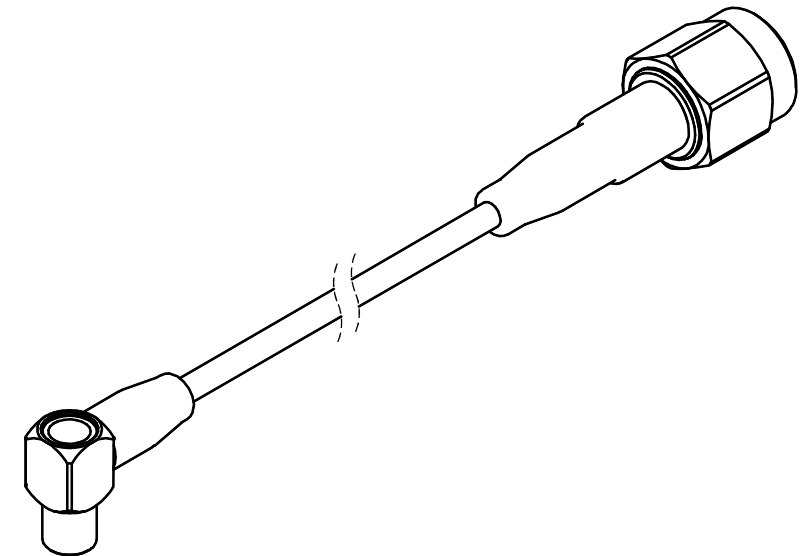
* 90683-0001 AND 90684-0001 SHOULD BE USED TOGETHER.



MHF4(4L) RECEPTACLE HIGH CYCLE SMA ADAPTER
PART NO. 90698-0001



MHF4(4L) RECEPTACLE HIGH CYCLE N45 C ADAPTER
PART NO. 90576-0001



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

* 90576-0001 AND 90577-**** SHOULD BE USED TOGETHER.

ANGLE	±2°	6 OVER 30 MAX.	±0.3		SERIES No. R5	CUSTOMER COPY		
6 MAX.	±0.2	30 OVER 120 MAX.	±0.5					
GENERAL TOLERANCE.				TITLE MHF® 4 RECEPTACLE		SCALE	I-PEX	
DWG.	DATE					2:1		
CHK.						UNIT		
						mm		
APP.				DWG. No. 20449		SIZE	SHEET	REV.
						A3	7/7	22