

MHF® 4L

The M.2 industry standard, mated height of 1.2 mm, 1.4 mm, and 1.7 mm max., excellent electrical performance up to 12 GHz

Product Specifications:

Mated Height (mm max.)	(1) 1.2, (2) 1.4, (3) 1.7		
Rece. SMT Size (mm)	2.0 x 2.0		
Applicable Frequency	DC ~ 12 GHz		
Characteristic Impedance	50 ohm		
VSWR (L=100 mm)	Connector	PLUG	RECEPTACLE
	DC ~ 3 GHz	1.3 max.	1.3 max.
	3 ~ 6 GHz	(1)(2) 1.45 max. (3) 1.4 max.	1.4 max.
	6 ~ 9 GHz	(1)(2) 1.6 max. (3) 1.5 max.	1.5 max.
	9 ~ 12 GHz	(1)(2) 1.9 max. (3) 1.6 max.	1.65 max.

* Cable size O.D. (1) 0.81 mm, 0.64 mm (2) 1.13 mm, 0.95 mm (3) 1.37 mm

Applicable Cable Size:

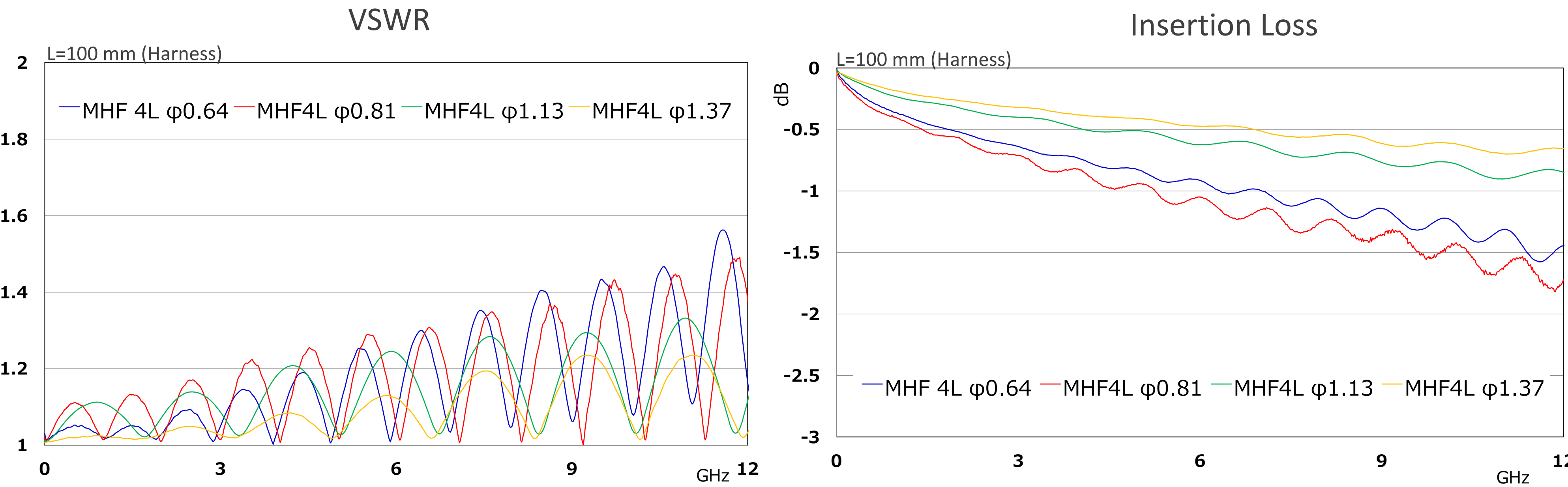
(1) 20572-001R-08
O.D. 0.81 mm, O.D. 0.64 mm / AWG 36
(2) 20565-001R-13
O.D. 1.13 mm / AWG 32
O.D. 0.95 mm / AWG 33
(3) 20632-001R-37
O.D. 1.37 mm / AWG 30

Applicable Standards (Reference Only):

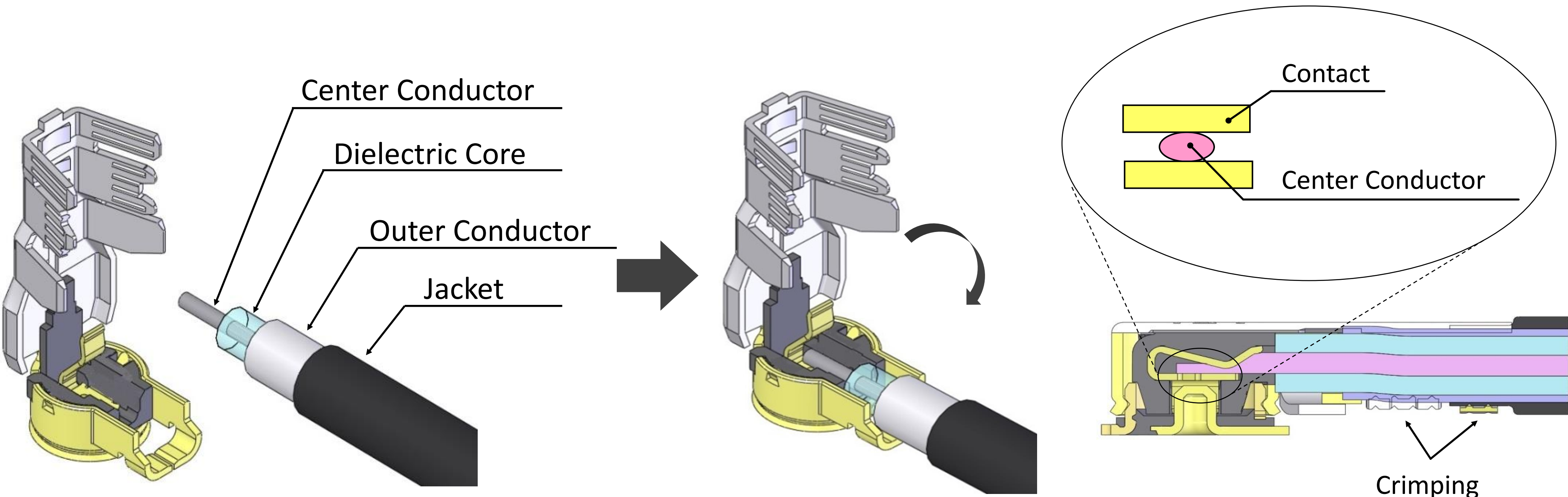
5G sub-6, Wi-Fi 6E, LTE/LTE-Advanced, LPWA, Bluetooth, GPS
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Small form factor with big performance through 12 GHz



Solderless micro-coax termination technology "i-Fit®" provides consistent performance



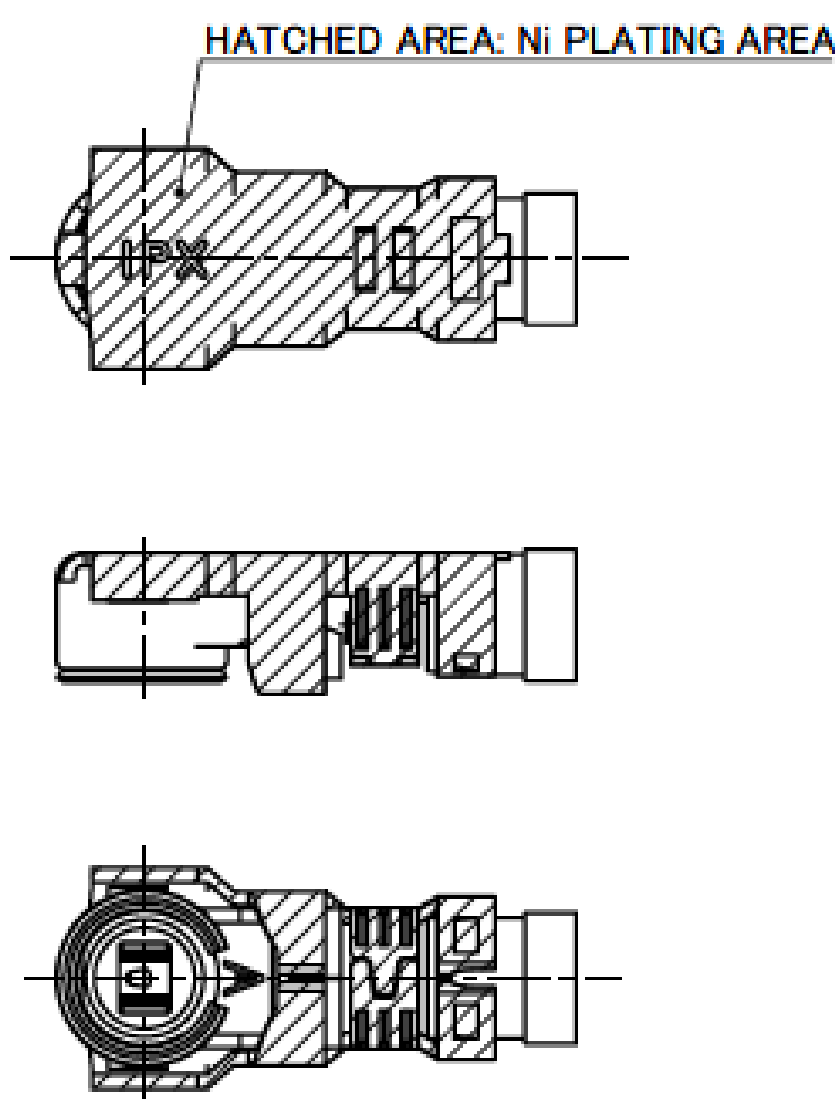
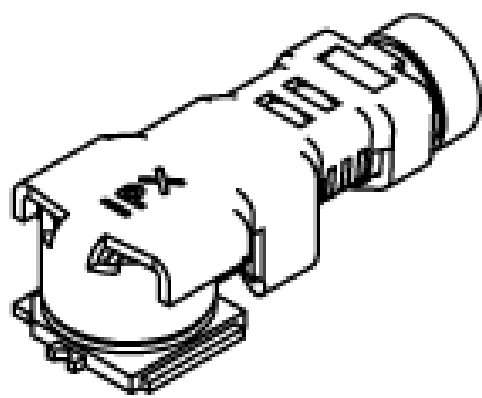
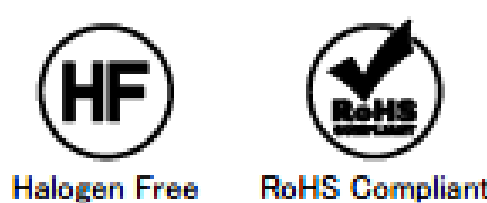
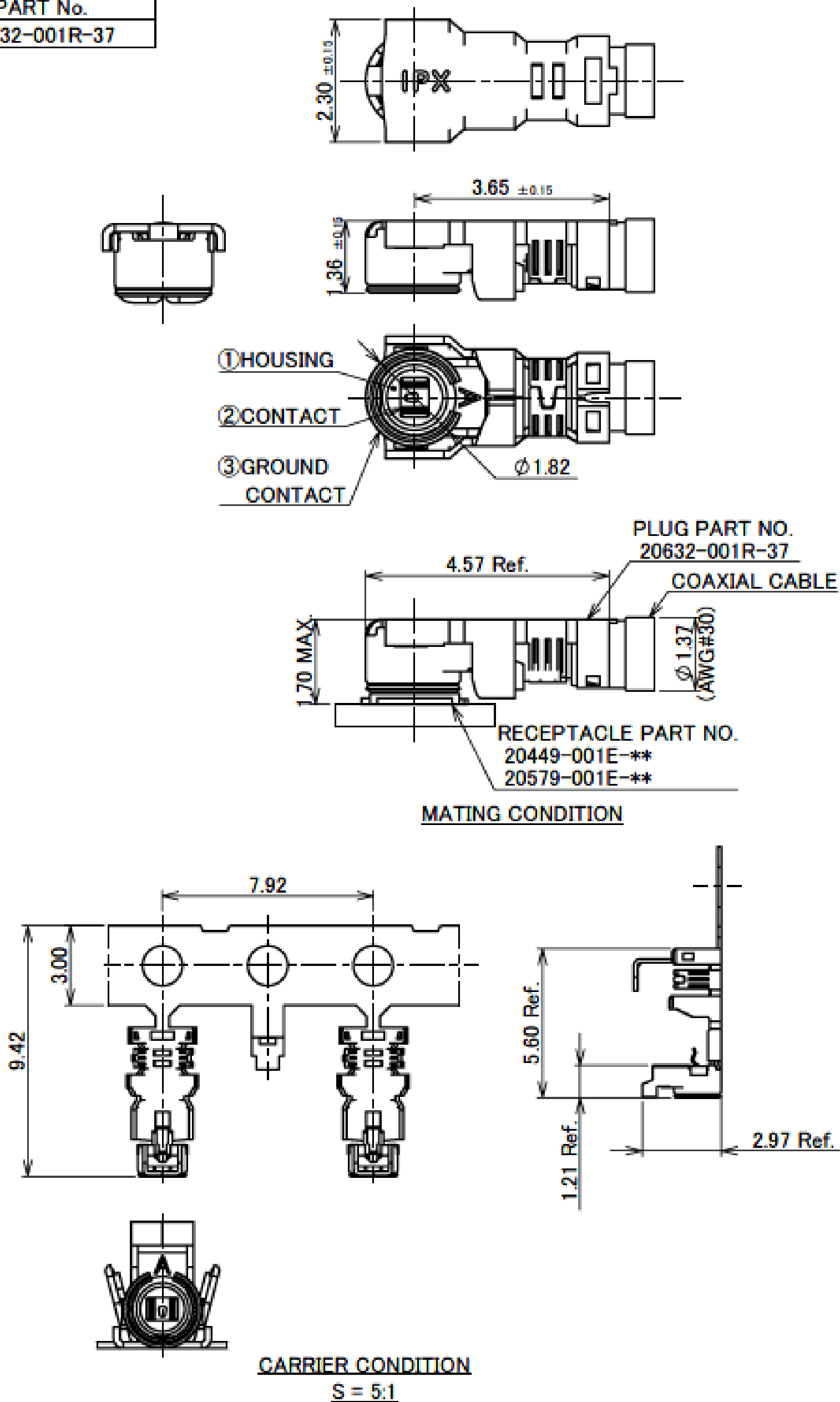
MHF® 4L Plug available with various cable O.D. and additional locking option

Product name		MHF® 4L LK	MHF® 4L	MHF® 4L	MHF® 4L
Lock		With Lock	Without Lock	Without Lock	Without Lock
Mating Height		2.0 mm max.	1.7 mm max.	1.4 mm max.	1.2 mm max.
Coaxial O.D. (Center Conductor AWG)	1.37 mm (AWG#30)	●	●		
	1.13 mm (AWG#32)			●	
	0.95 mm (AWG#33)			●	
	0.81 mm (AWG#36)				●
	0.64 mm (AWG#36)				●
Receptacle		MHF® 4 receptacle (20449-001E-**) , MHF® 4L receptacle (20579-001E)			

Component Parts Details

MHF® 4L plug Ni top (1.37)

Recommended P/N	20632-001R-37
PART No.	
20632-001R-37	



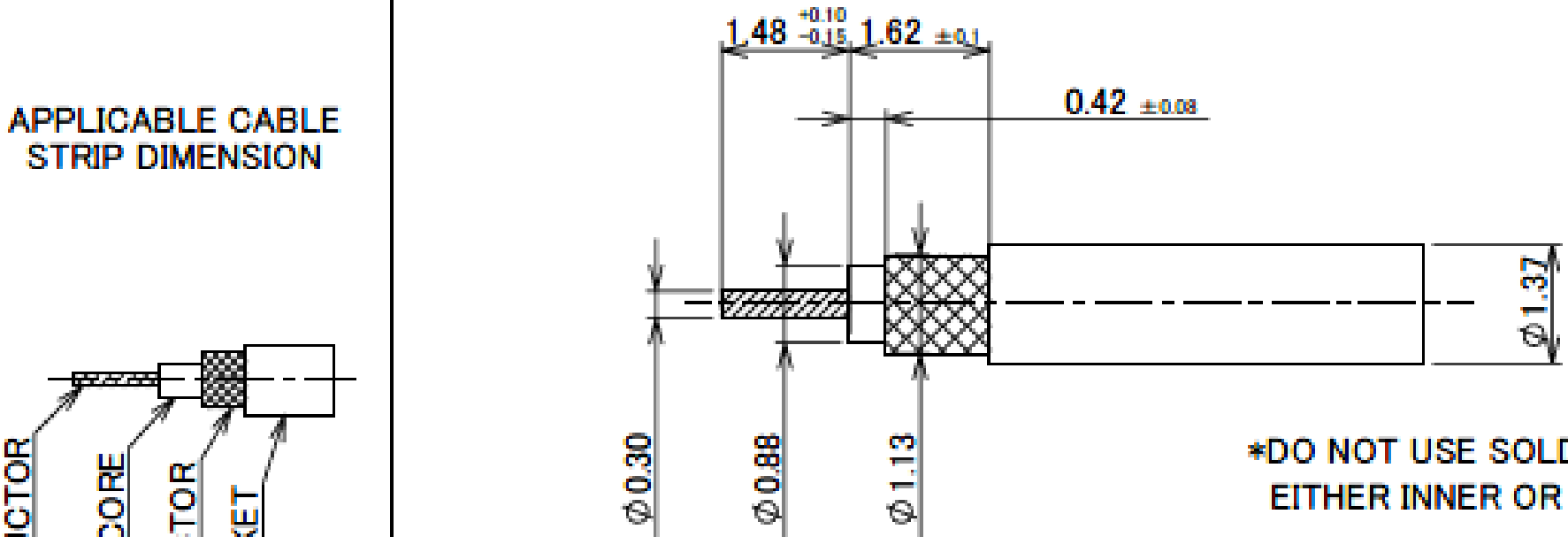
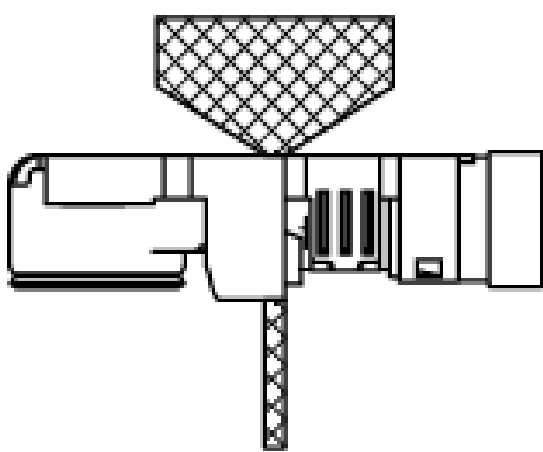
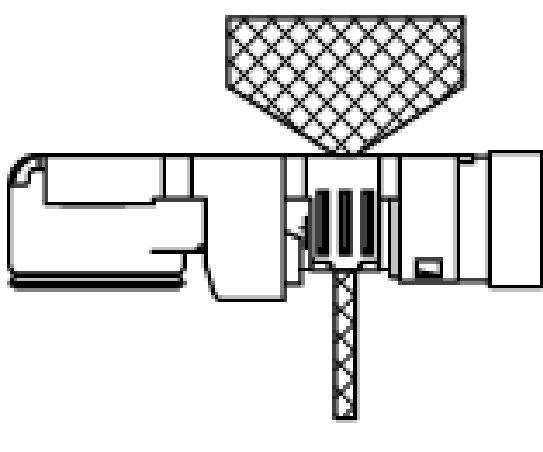
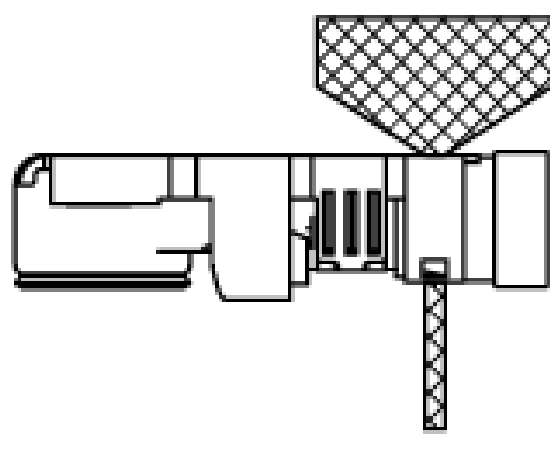
NOTES.
1. APPLICABLE CONNECTOR
20449-001E-**
20579-001E-**

3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.05 μ m MIN. [Ni PLATING AREA] Ni ONLY
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.10 μ m MIN.
1	HOUSING	PBT	UL94V-0, BLACK (GF 10%)
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

MHF® 4L plug Ni top (1.37)

ITEMS	SPECIFICATION	
RECOMMENDED APPLICABLE CONNECTOR PART No.	20449-001E-**-	20579-001E-**-
RATING VOLTAGE	60 V AC (R.M.S)	
RATING FREQUENCY	DC~9 GHz	DC~12 GHz
OPERATING TEMPERATURE	233~363K (-40℃~+90℃)	
VSWR (MATED WITH SMA ADAPTER PART No. 90449-001)	1.30 MAX. AT 0.1~3 GHz, 1.40 MAX. AT 3~6 GHz, 1.50 MAX. AT 6~9 GHz, 1.60 MAX. AT 9~12 GHz	
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ΔR 20 mohm MAX.	
GROUND CONTACT RESISTANCE	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)	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-2008	PRS-2925
TEST REPORT	TR-14100	TR-24070
PACKING STANDARD	PST-12066	
INSTRUCTION MANUAL	HIM-16011	
APPEARANCE CRITERIA No.	QLS-A***	

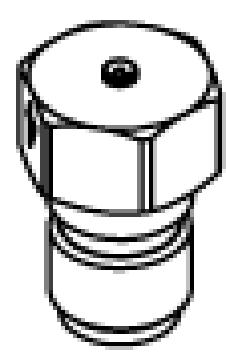
Rev.8

PART NO.	20632-001R-37		
APPLICABLE CABLE STRIP DIMENSION 	*DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.		
	REQUIREMENTS CHARACTERISTIC IMPEDANCE: 50(±2) ohm BY TDR METHOD NOMINAL CAPACITANCE: 98pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR: 320 ohm/km INSULATION RESISTANCE: 1500 Mega-ohm. km MIN. DIELECTRIC WITH STANCE VOLTAGE: NO BREAKDOWN AT 1500 V AC FOR 1 MINUTE.		
BRAIDED SHIELD OF OUTER CONDUCTOR	SINGLE BRAIDED SHIELD		
PART NO. OF SEMI AUTO TERMINATION MACHINE	90703-037		
CRIMP HEIGHT			
	CH-1 (i-Fit® PART) 1.46~1.50	CH-2 (SHIELD PART) 1.16~1.20	CH-3 (JACKET PART) 1.27~1.31
	※USE FOR POINT MICROMETER.		

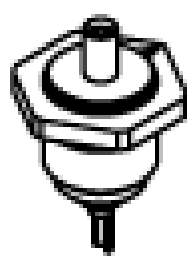
NOTES 2.
DESCRIPTION
INNER CONDUCTOR AWG#30 (7/0.102) SILVER PLATING ANNEALED COPPER WIRE
DIELECTRIC CORE FLUORO-PLASTICS, DIAMETER 0.88(+0.04/-0.02)mm NOMINAL THICKNESS 0.29mm
OUTER CONDUCTOR 16/5/0.05, NOMINAL DIAMETER 1.13mm TIN-COATED ANNEALED COPPER WIRE.
JACKET FLUORO-PLASTICS, DIAMETER 1.37±0.08mm NOMINAL THICKNESS 0.12mm

Rev.8

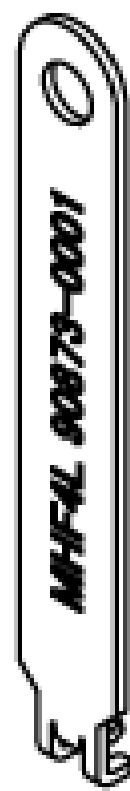
Accessories for MHF® 4L plug Ni top (1.37)



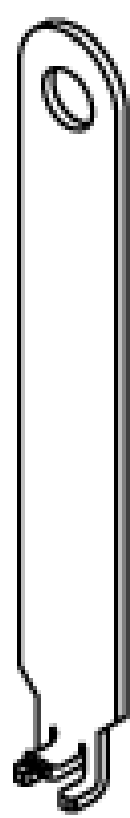
MHF 4 (4L) SMA ADAPTOR
PART NO. 90449-001



MHF 4 (4L) INSPECTION CONNECTOR
PART NO. 90449-003-01



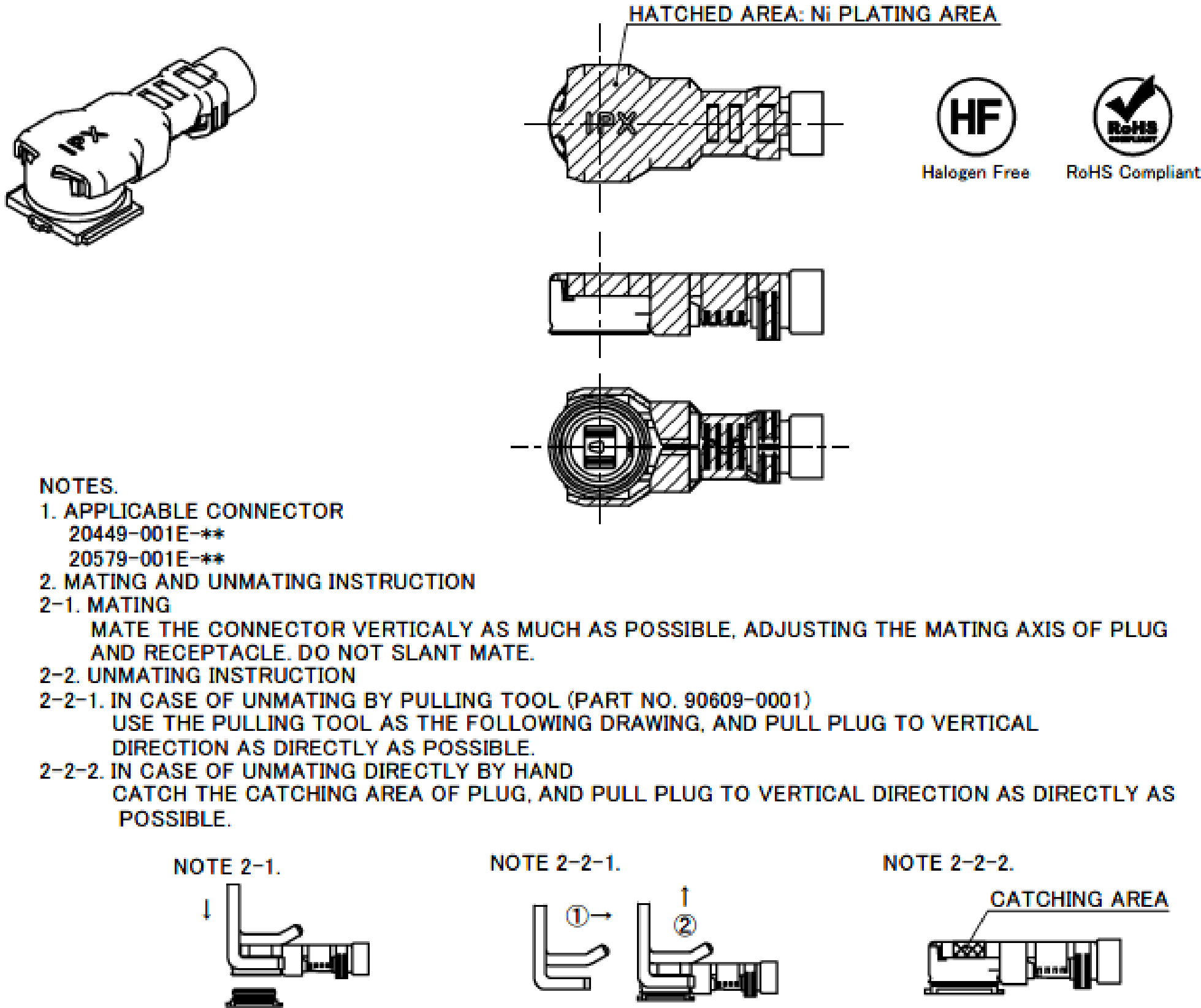
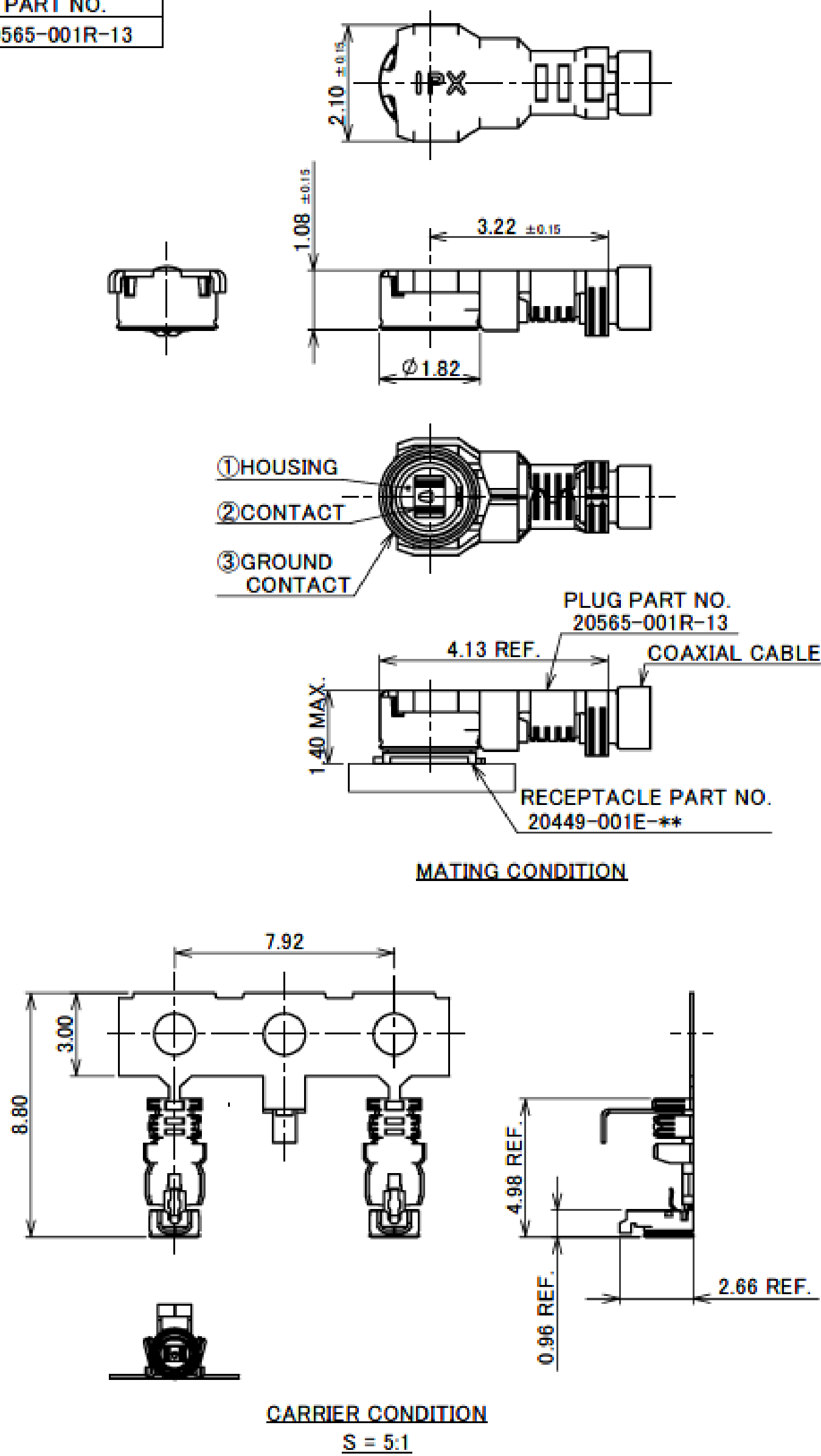
FRONT SIDE
MHF 4L (1.37) PUSHING AND PULLING TOOL
PART NO. 90873-0001



Rev.8

MHF® 4L plug Ni top (1.13,0.95)

Recommended P/N	20565-001R-13
PART NO.	
20565-001R-13	

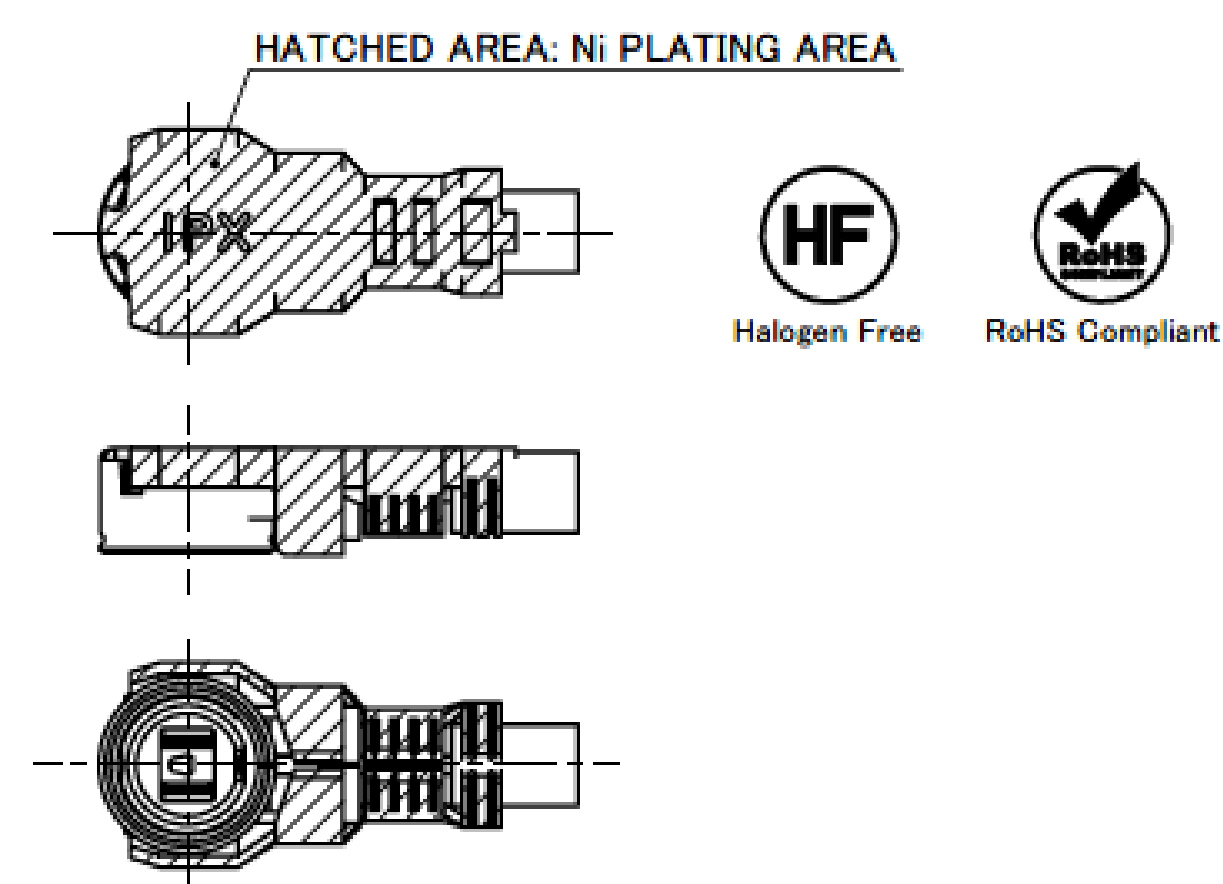
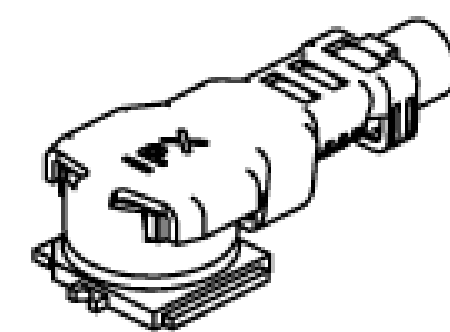
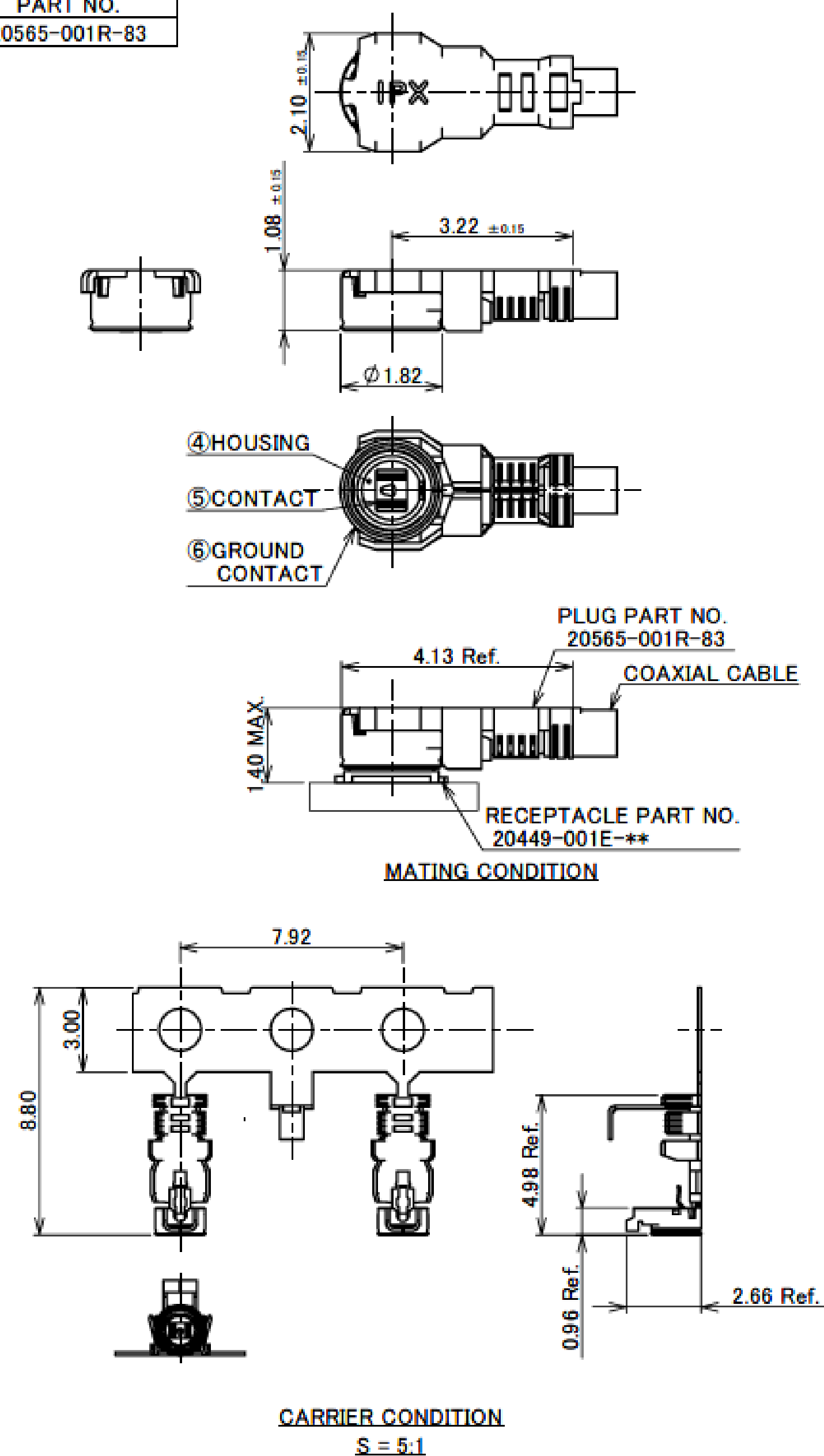


3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.05 μ m MIN. [Ni PLATING AREA] Ni ONLY
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.10 μ m MIN.
1	HOUSING	PBT	UL94V-0, BLACK
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.10

MHF® 4L plug Ni top (1.13,0.95)

Recommended P/N		20565-001R-83
PART NO.		
20565-001R-83		



NOTES.

3. APPLICABLE CONNECTOR:
20449-001E-**
20579-001E-**

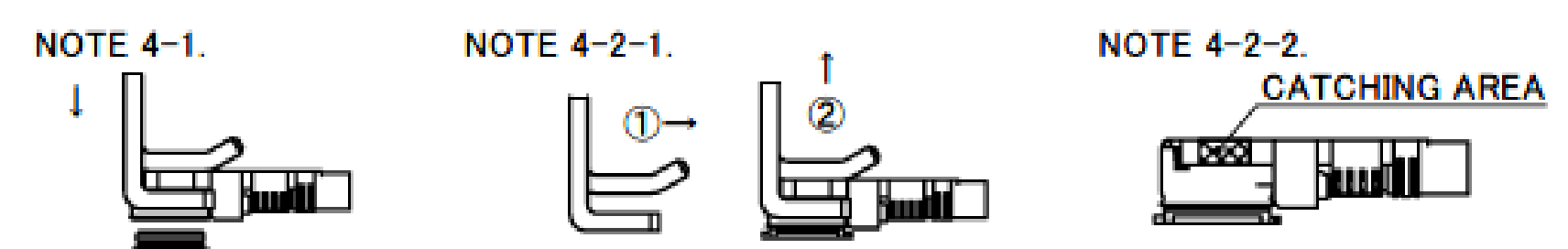
4. MATING AND UNMATING INSTRUCTION

4-1. MATING
MATE THE CONNECTOR VERTICALLY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. DO NOT SLANT MATE.

4-2. UNMATING INSTRUCTION

4-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90609-0001)
USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

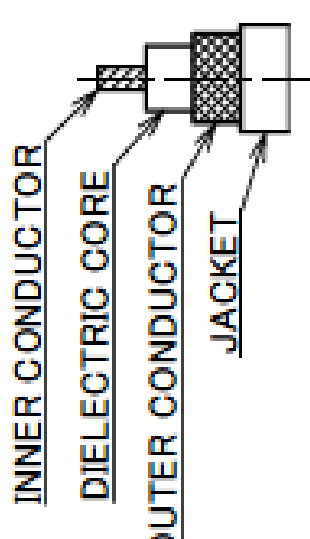
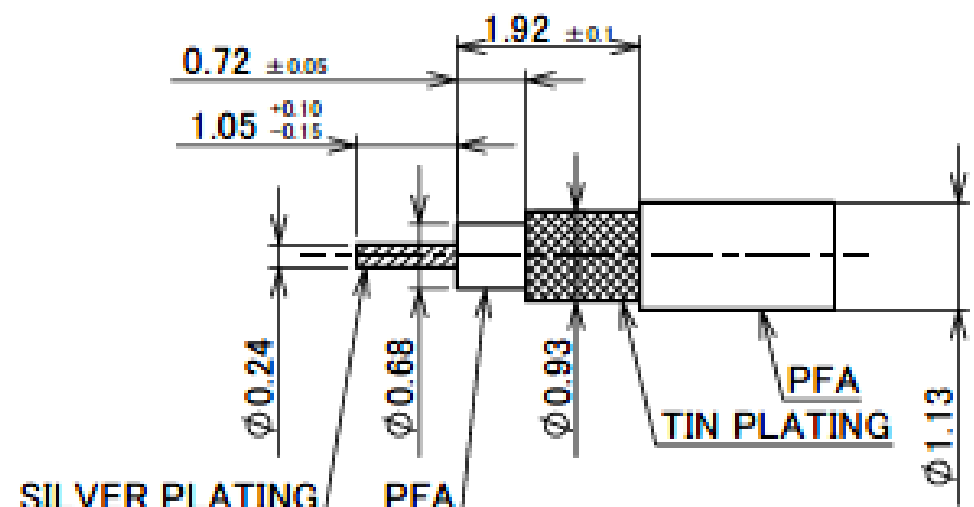
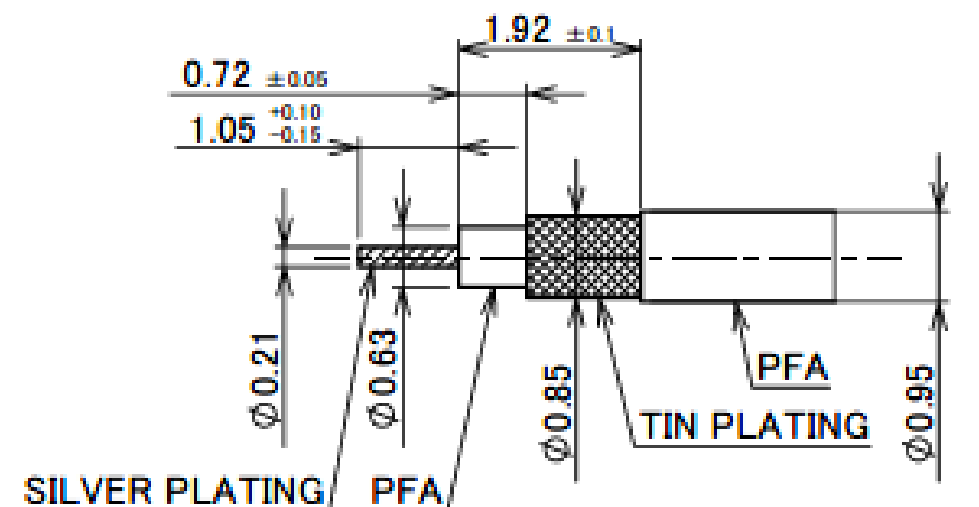
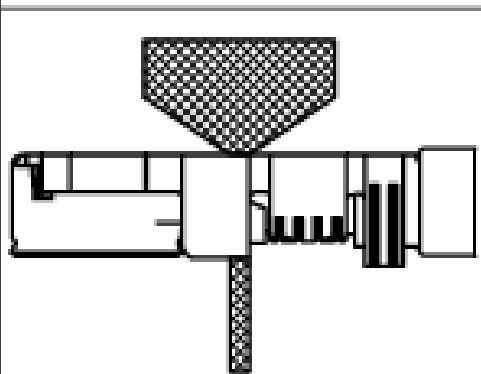
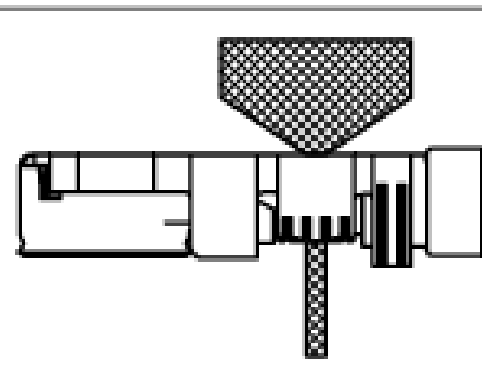
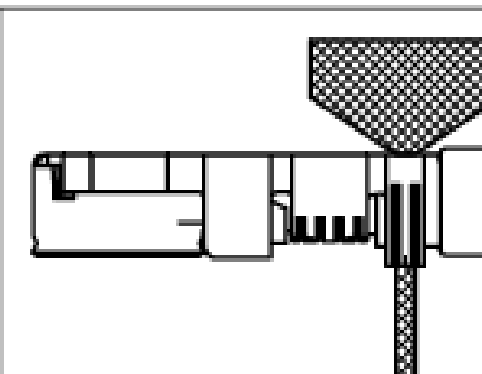
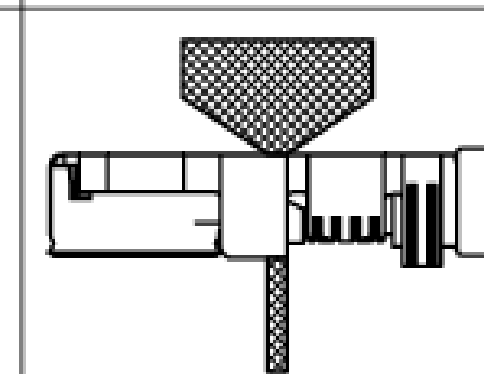
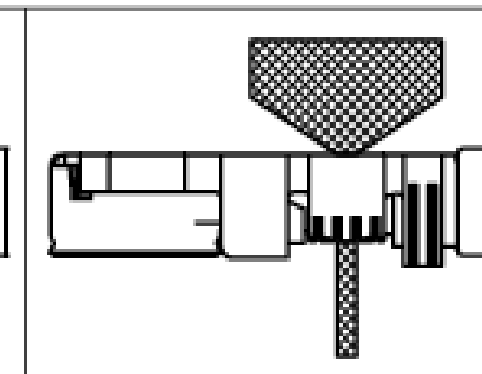
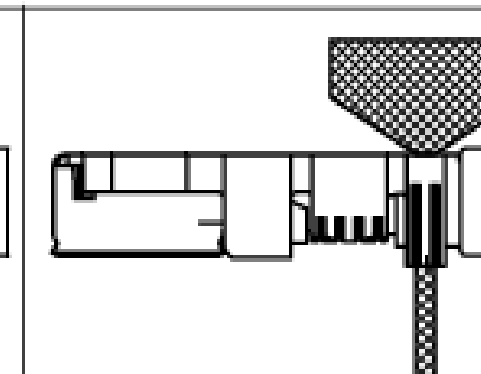
4-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.



6	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.05 μ m MIN. [Ni PLATING AREA] Ni ONLY
5	CONTACT	PHOSPHOR BRONZE	CONTACT PART FINISH: Au 0.10 μ m MIN. UNDER PLATE: Ni 1.00 μ m MIN.
4	HOUSING	PBT	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH . REMARKS

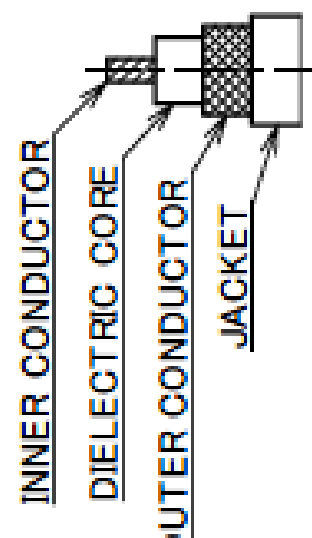
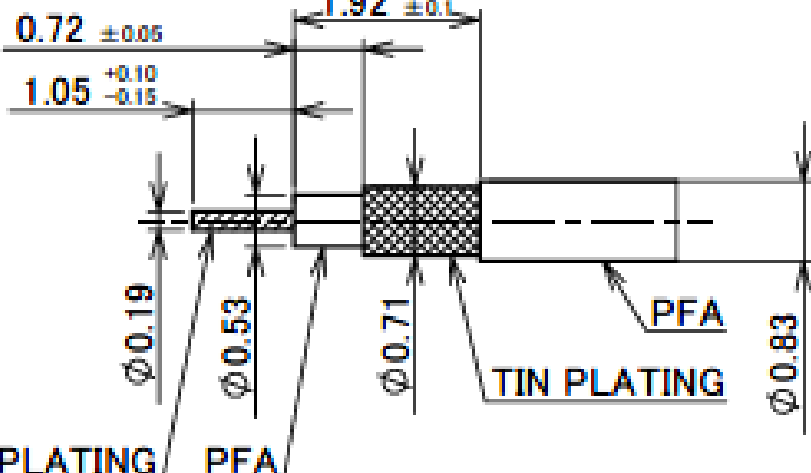
ITEMS	SPECIFICATION		
APPLICABLE CABLE	AWG#32 (1.13 O.D.)	AWG#33 (0.95 O.D.)	AWG#33 (0.83 O.D.)
RECOMMENDED APPLICABLE CONNECTOR PART No.	20449-001E-**-		
RATING VOLTAGE	60 V AC (R.M.S)		
RATING FREQUENCY (MATED WITH MHF 4 RECEPTACLE PART No.20449-001E-**-)	DC~ 9GHz		
OPERATING TEMPERATURE	233~363 K (-40°C~+90°C)		
VSWR (MATED WITH SMA ADAPTER PART No. 90449-001)	1.30 MAX. AT 0.1~3GHz, 1.45 MAX. AT 3~6GHz, 1.60 MAX. AT 6~9GHz, 1.90 MAX. AT 9~12GHz		
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-1772	PRS-2051	PRS-2062
TEST REPORT	TR-13011	TR-14142	TR-15011
PACKING STANDARD	PST-12066		
INSTRUCTION MANUAL	HIM-12012		
APPEARANCE CRITERIA No.	QI S-A***		

MHF® 4L plug Ni top (1.13,0.95)

PART NO.	20565-001R-13					
APPLICABLE CABLE STRIP DIMENSION 						
	※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.			※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.		
	REQUIREMENTS CHARACTERISTIC IMPEDANCE: 50 ohm by TDR METHOD NOMINAL CAPACITACNE (REFERENCE VALUE): 97pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR AT 293K (REFERENCE VALUE): OD 1.13 TYPE...520 ohm/km OD 0.95 TYPE...752 ohm/km INSULATION RESISTANCE: OD1.13 TYPE...1500 Mega-ohm.km MIN. OD0.95 TYPE...1000 Mega-ohm.km MIN. DIELECTRIC WITHSTAND VOLTAGE: OD1.13 TYPE...NO BREAKDOWN AT AC1000V FOR 1 MINUTE. OD0.95 TYPE...NO BREAKDOWN AT AC500V FOR 1 MINUTE.					
BRAIDED SHIELD OF OUTER CONCUCTOR	SINGLE BRAIDED SHIELD			SINGLE BRAIDED SHIELD		
PART NO. OF SEMI AUTO TERMINATION MACHINE	90600-013			90600-010		
CRIMP HEIGHT	※USE FOR POINT MICROMETER.			※USE FOR POINT MICROMETER.		
						
	CH-1 (i-Fit® PART) 1.07~1.11	CH-2 (SHIELD PART) 0.90~0.94	CH-3 (JACKET PART) 1.16~1.20	CH-1 (i-Fit® PART) 1.04~1.08	CH-2 (SHIELD PART) 0.92~0.96	CH-3 (JACKET PART) 1.16~1.20

Rev.10

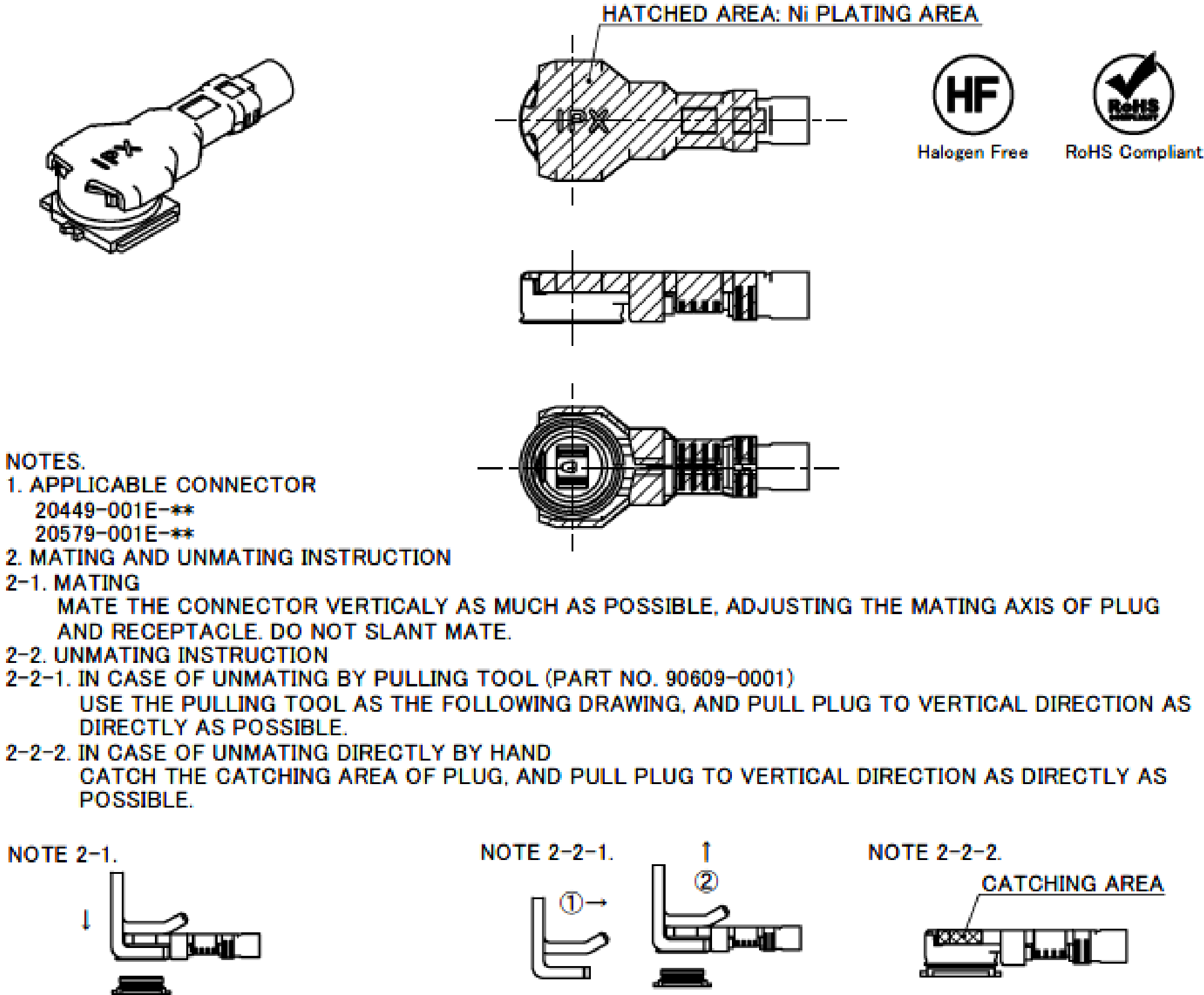
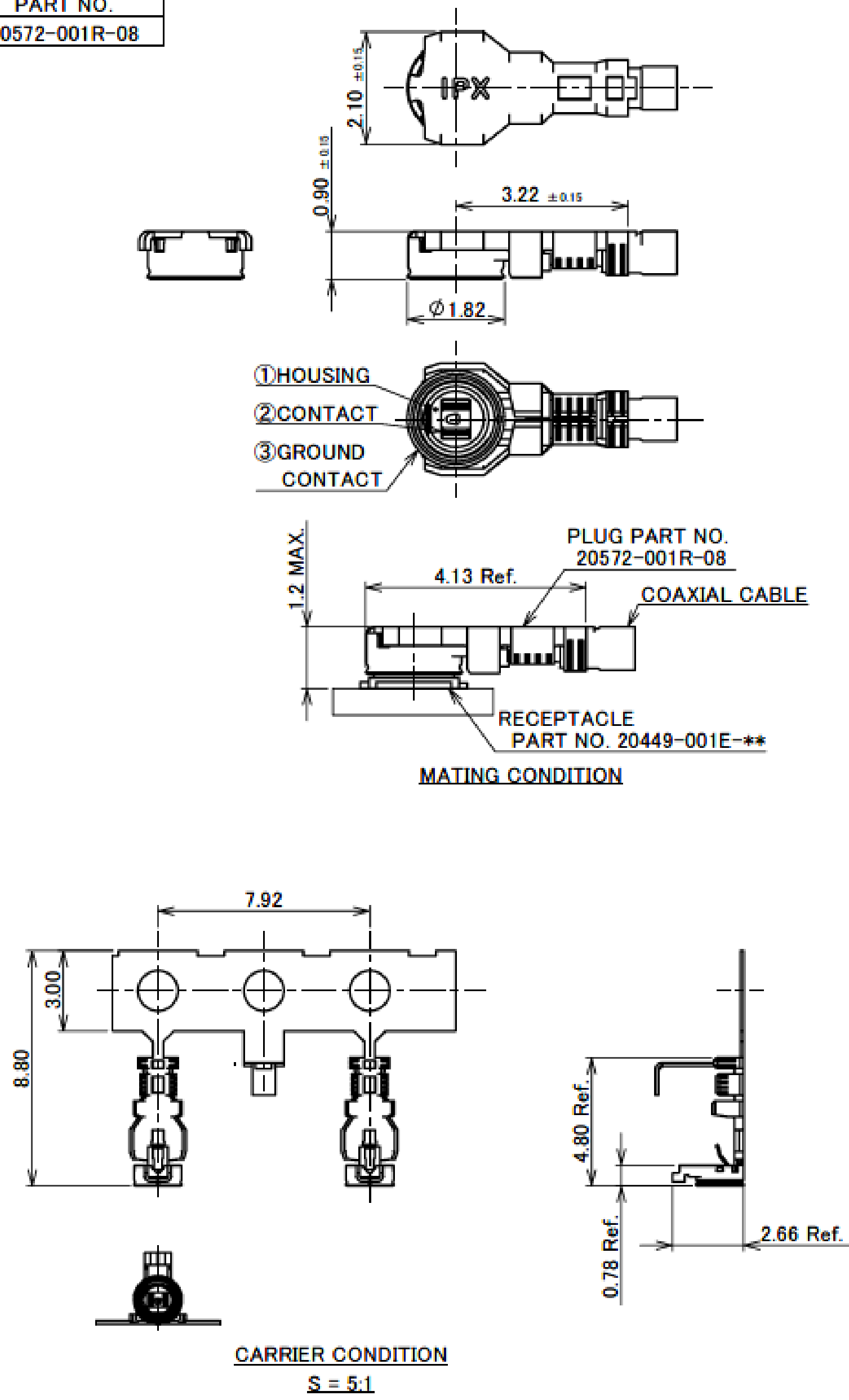
Plug Housing Assembly

PART NO.	20565-001R-83		
APPLICABLE CABLE STRIP DIMENSION 			
	※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.		
	REQUIREMENTS CHARACTERISTIC IMPEDANCE: 50 ohm BY TDR METHOD NOMINAL CAPACITACNE(REFERENCE VALUE): 96pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR AT 293K (Reference value): 925 ohm/km INSULATION RESISTANCE: 1000 Mega-ohm.km MIN. DIELECTRIC WITH STANCE VOLTAGE: NO BREAKDOWN AT AC 1500V FOR 1 MINUTE.		
BRAIDED SHIELD OF OUTER CONCUCTOR	SINGLE BRAIDED SHIELD		
PART NO. OF SEMI AUTO TERMINATION MACHINE	90600-083		
CRIMP HEIGHT	※USE FOR POINT MICROMETER		
	CH-1 (i-Fit® PART) 0.91~0.95	CH-2 (SHIELD PART) 0.84~0.88	CH-3 (JACKET PART) 0.82~0.86

Rev.10

MHF® 4L plug Ni top (0.81,0.64)

Recommended P/N	20572-001R-08
PART NO.	
20572-001R-08	



NOTES.

1. APPLICABLE CONNECTOR
20449-001E-08
20579-001E-08

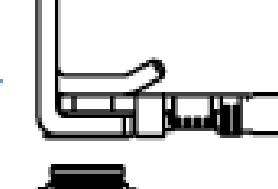
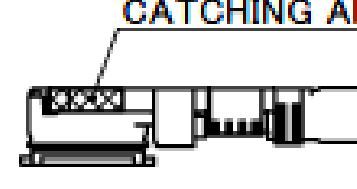
2. MATING AND UNMATING INSTRUCTION

2-1. MATING
MATE THE CONNECTOR VERTICALLY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. DO NOT SLANT MATE.

2-2. UNMATING INSTRUCTION

2-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90609-0001)
USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

2-2-2. IN CASE OF UNMATING DIRECTLY BY HAND
CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

NOTE 2-1.			NOTE 2-2-1.	NOTE 2-2-2.
				
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN. [Ni PLATING AREA] Ni ONLY	
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.10 μm MIN.	
1	HOUSING	PBT	UL94V-0, BLACK	
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS	

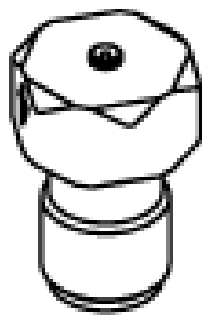
ITEMS	SPECIFICATION	
APLICABLE CABLE	AWG#36 (0.81 O.D.)	AWG#36 (0.64 O.D.)
RECOMMENDED CONNECTOR PART No.	20449-001E-08	
RATING VOLTAGE	60 V AC (R.M.S)	
RATING FREQUENCY (MATED WITH MHF 4 RECEPTACLE PART No.20449-001E-08)	DC~9 GHz	
OPERATING TEMPERATURE	233~363K (-40°C~+90°C)	
VSWR (MATED WITH SMA ADAPTER PART No. 90449-001)	1.30 MAX. AT 0.1~3 GHz, 1.45 MAX. AT 3~6 GHz, 1.60 MAX. AT 6~9 GHz, 1.90 MAX. AT 9~12 GHz	
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ΔR 20 mohm MAX.	
GROUND CONTACT RESISTANCE	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)	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.	
CRIMP STRENGTH	-	8 N MIN.
PRODUCT SPECIFICATION	PRS-1772	PRS-1944
TEST REPORT	TR-13011	TR-14078
PACKING STANDARD	PST-12066	
INSTRUCTION MANUAL	HIM-12011	
APPEARANCE CRITERIA No.	QLS-A***	

MHF® 4L plug Ni top (0.81,0.64)

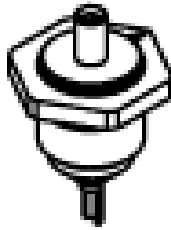
PART NO.	20572-001R-08				
APPLICABLE CABLE STRIP DIMENSION	※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.		※DO NOT USE SOLDER COATED EITHER INNER OR OUTER CONDUCTOR CABLES.		
	NOTES 3.REQUIREMENTS CHARACTERISTIC IMPEDANCE: 50(±3)ohm BY TDR METHOD NOMINAL CAPACITANCE (REFERENCE VALUE): 96pF/m CONDUCTOR RESISTANCE OF INNER CONDUCTOR AT 293 (REFERENCE): OD 0.81 TYPE/OD 0.64 TYPE...1400ohm/km INSULATION RESISTANCE: OD 0.81 TYPE/OD 0.64 TYPE... 1000Mega-ohm.km MIN. DIELECTRIC WITH STANCE VOLTAGE: OD 0.81 TYPE...NO BREAKDOWN AT AC 1500V FOR 1 MINUTES. OD 0.64 TYPE...NO BREAKDOWN AT AC 500V FOR 1 MINUTES.				
BRAIDED SHIELD OF OUTER CONCUCTOR	SINGLE BRAIDED SHIELD		SINGLE SPIRAL SHIELD		
PART NO. OF SEMI AUTO TERMINATION MACHINE	90599-008		90599-006		
CRIMP HEIGHT					
	CH-1 (i-Fit® PART) 0.83~0.87	CH-2 (SHIELD PART) 0.76~0.80	CH-3 (JACKET PART) 0.92~0.96	CH-1 (i-Fit® PART) 0.81~0.85	CH-2 (SHIELD PART) 0.73~0.77
	※USE FOR POINT MICROMETER.		※USE FOR POINT MICROMETER.		
			CH-3 (JACKET PART) 0.71~0.75		

Rev.8

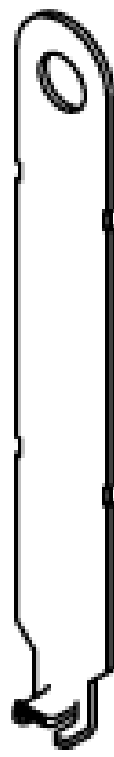
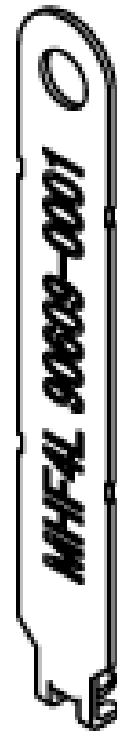
Accessories for MHF® 4L (0.81,0.64,1.13,0.95)



MHF 4 (4L) SMA ADAPTOR
PART NO. 90449-001



MHF 4 (4L) INSPECTION CONNECTOR
PART NO. 90449-003-01

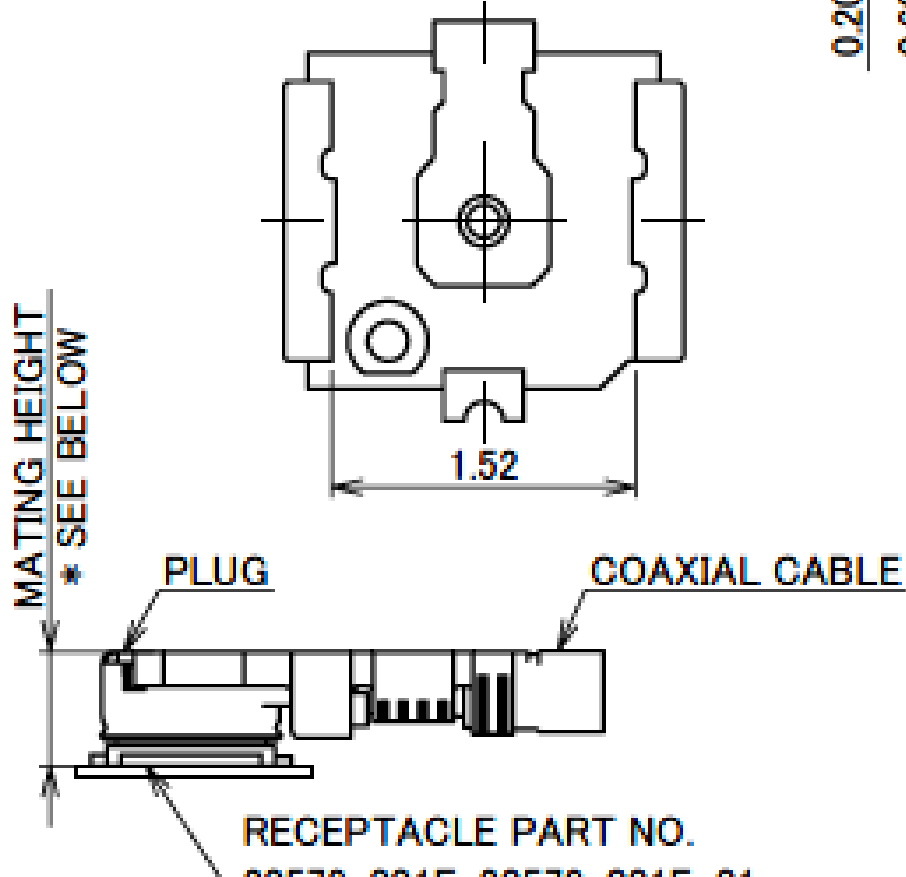
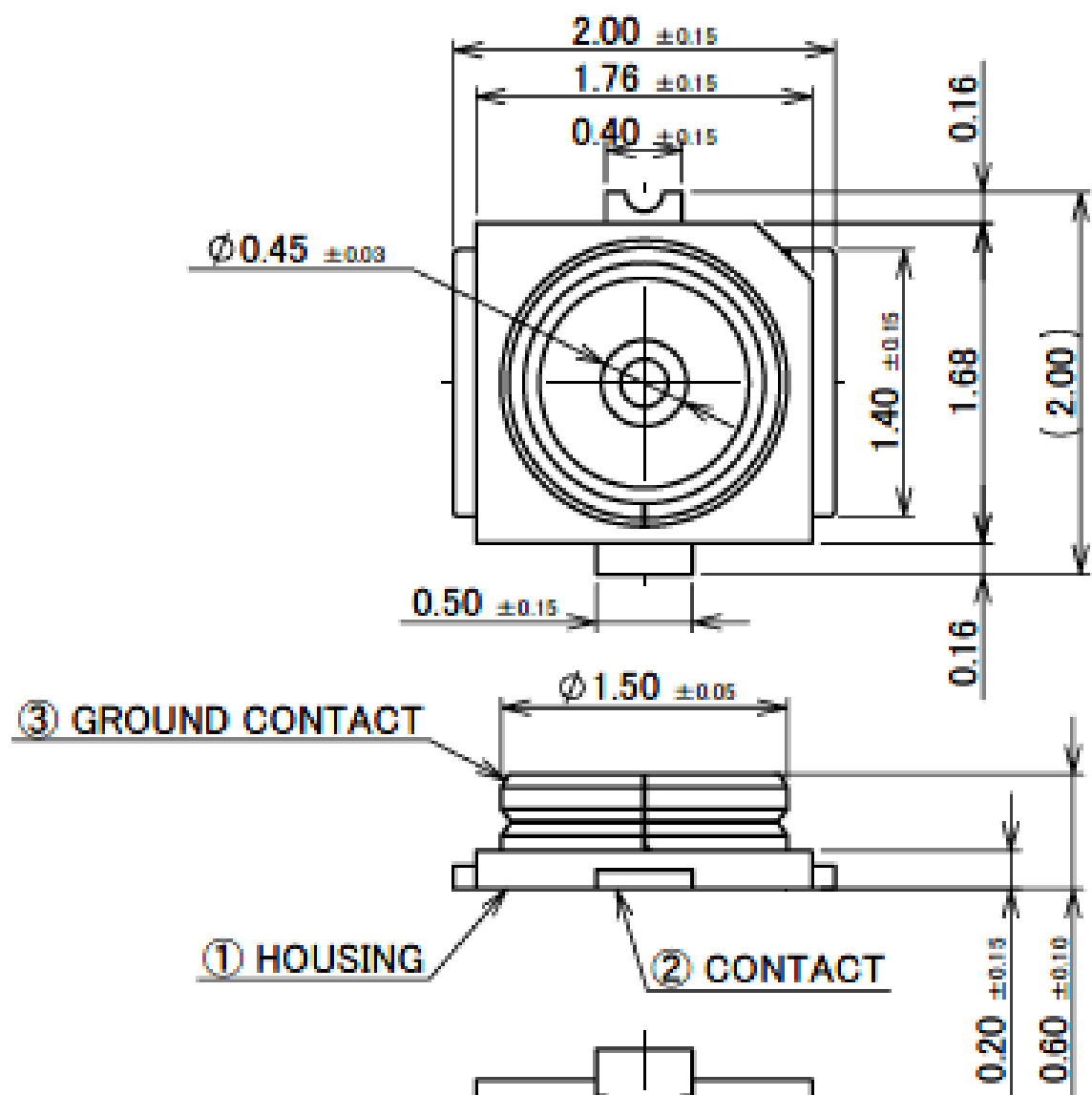


FRONT SIDE
BACK SIDE
MHF 4L PUSHING AND PULLING TOOL
PART NO. 90609-0001

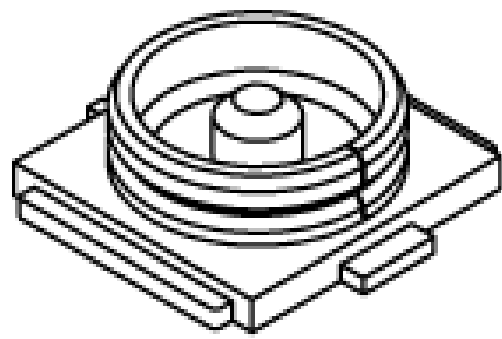
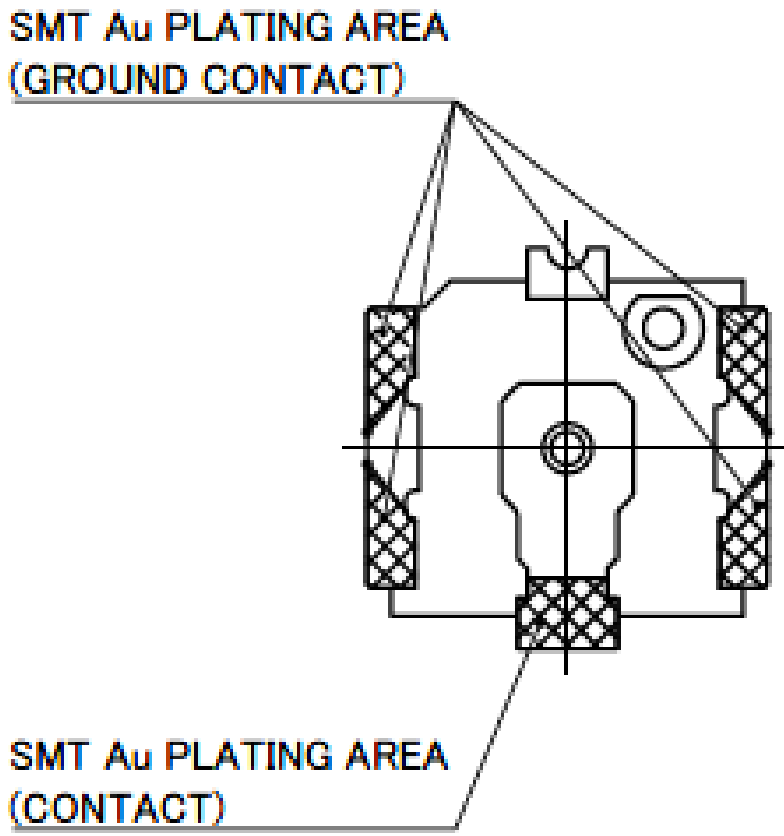
Rev.8

MHF® 4L Receptacle

Recommended P/N		20579-001E
PART NO.	PACKING QUANTITY / REEL	
20579-001E	10,000 PCS.	
20579-001E-01	20,000 PCS.	



* 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 (Φ0.81)
20448-00*R-081 (Φ0.81)
20448-001R-081E (Φ0.81)
MHF 4L PLUG: 20572-001R-08 (Φ0.64, Φ0.81)
20565-001R-** (Φ0.83, Φ0.95, Φ1.13)
20632-001R-37 (Φ1.37)
2. COPLANARITY: 0.1 mm MAX.

3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART: Au 0.05 μm MIN. , SOLDERING PART Au AREA: 0.03 μm MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00 μm MIN. CONTACT PART: Au 0.05 μm MIN. SOLDERING PART Au AREA: 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

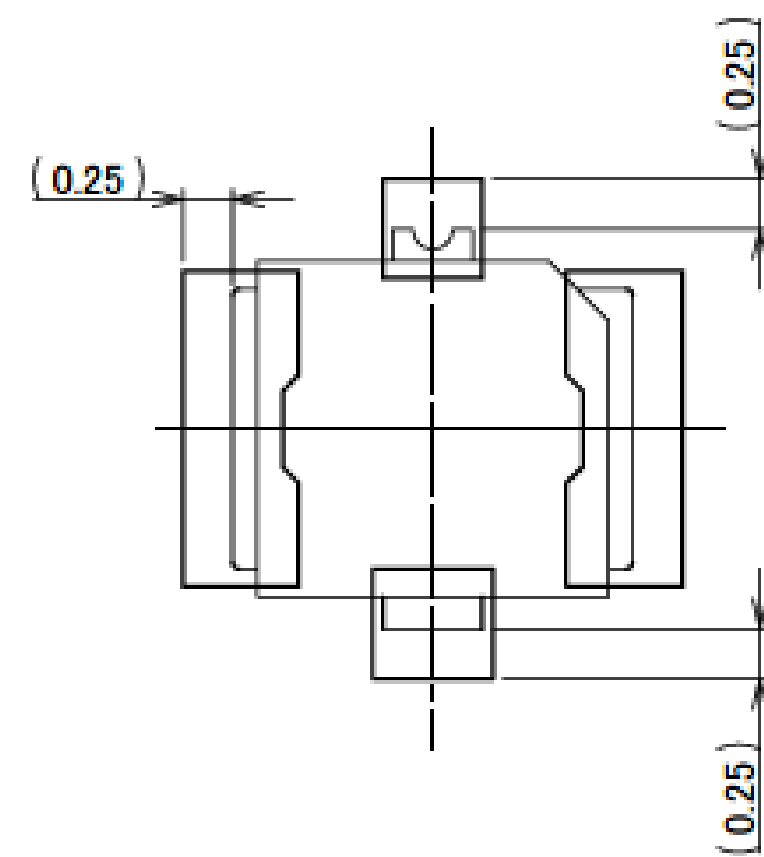
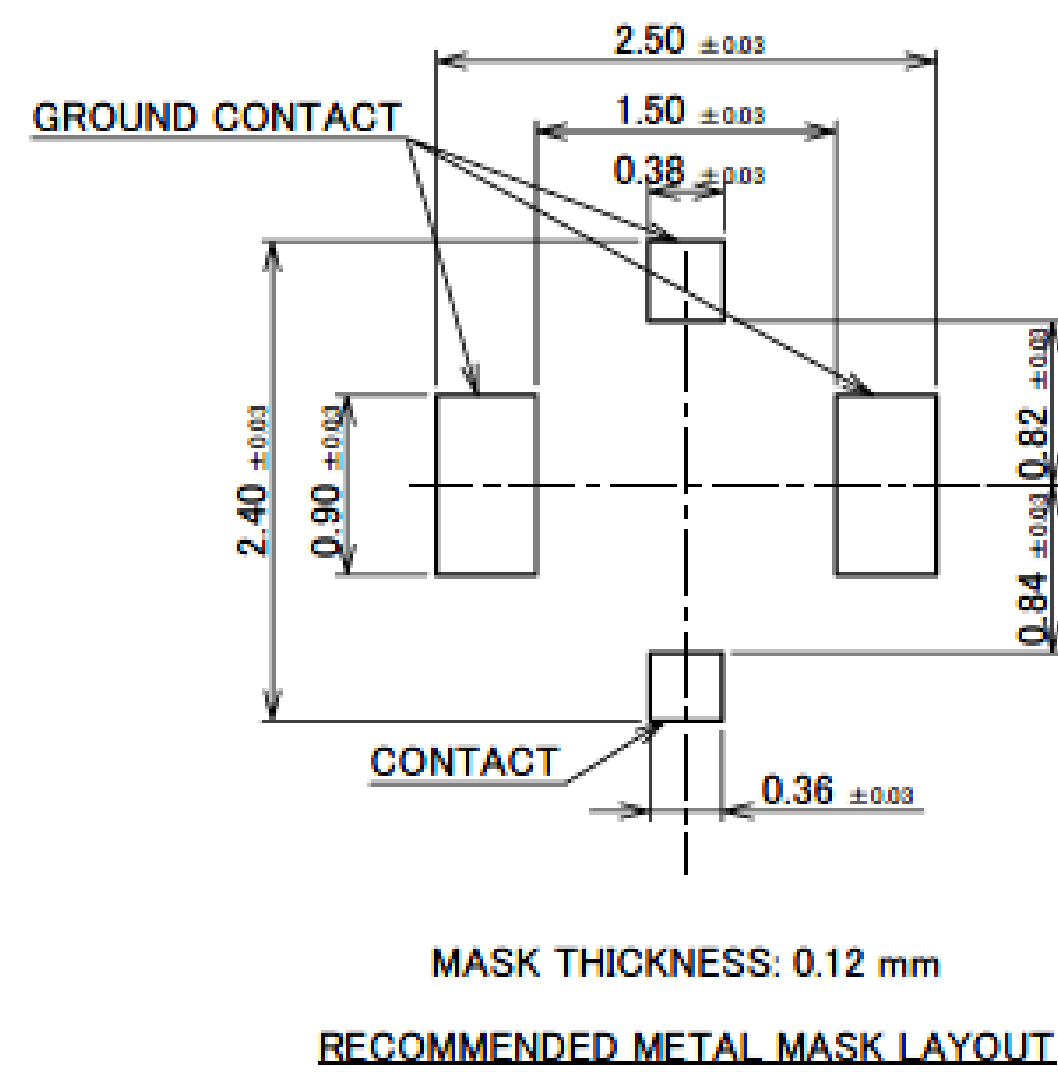
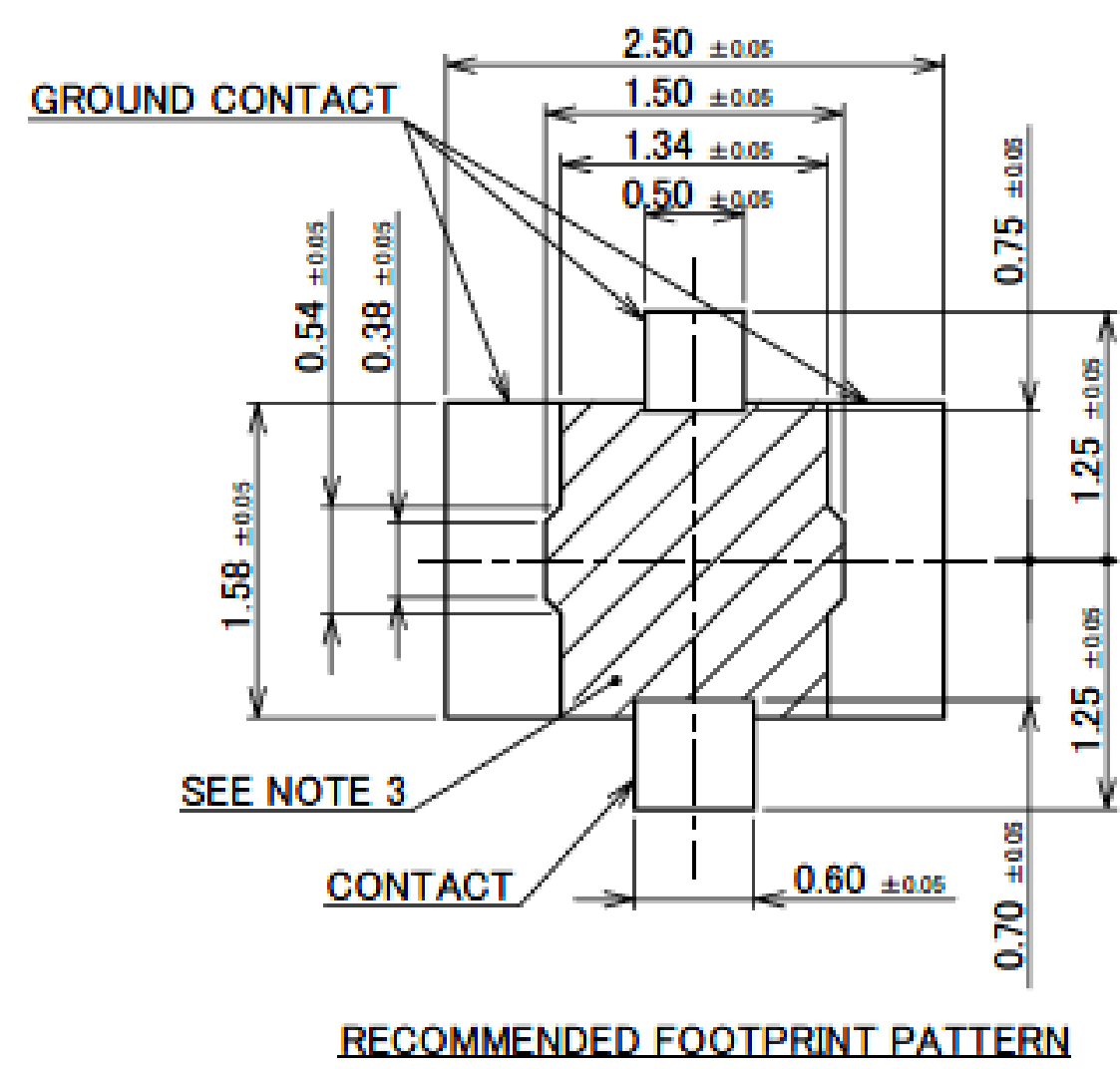
Rev.16

FOR MHF 4L PLUG

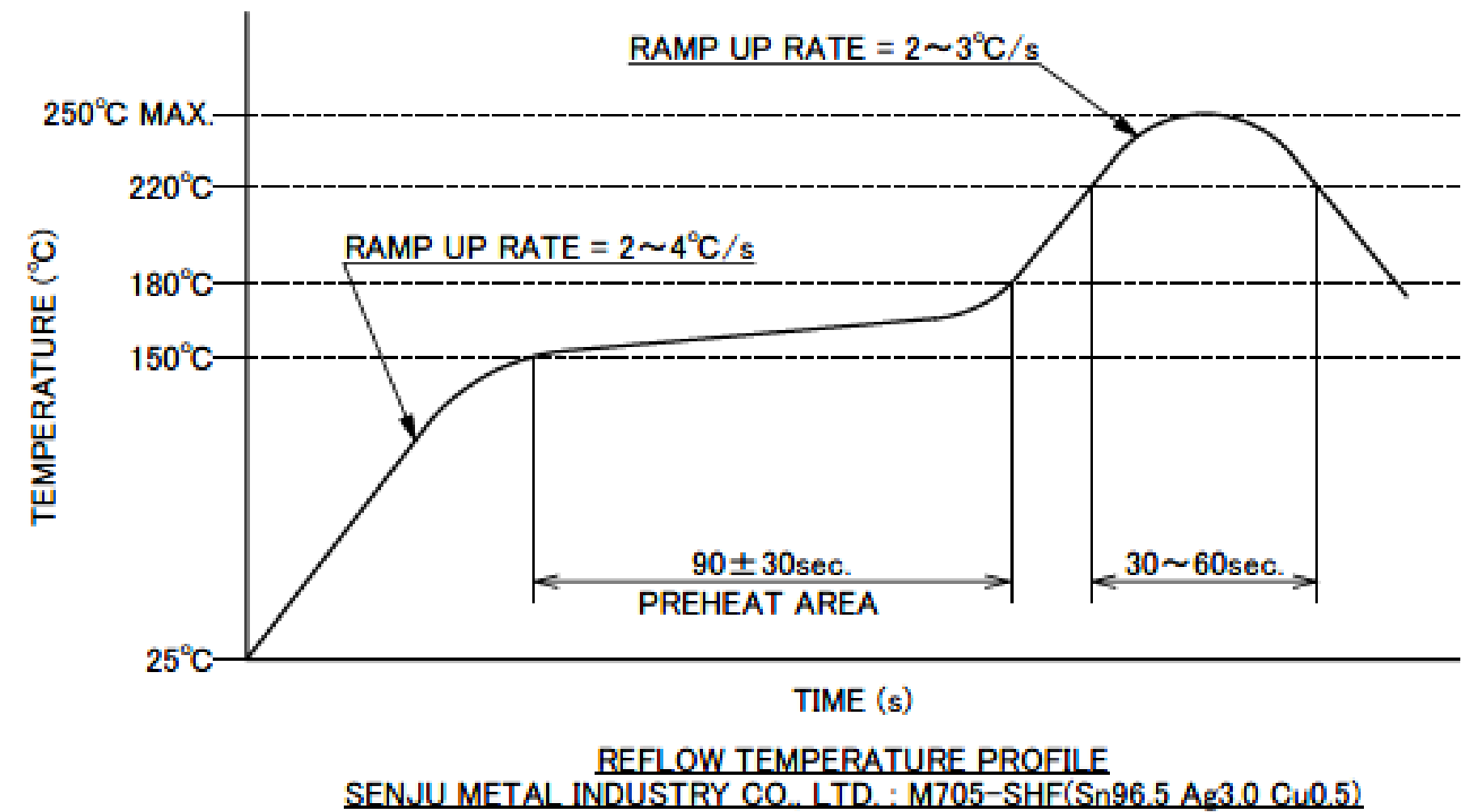
ITEMS	SPECIFICATION		
APPLICABLE CONNECTOR PART No.	20572-001R-08 (CABLE Φ0.81 TYPE)	20565-001R-13 (CABLE Φ1.13 TYPE)	20632-001R-37 (CABLE Φ1.37 TYPE)
RATING VOLTAGE	60 V AC (R.M.S)/DC		
RATING FREQUENCY	DC ~ 12GHz		
OPERATING TEMPERATURE	233~363 K(-40°C~+90°C)		
VSWR (MATED WITH SMA ADAPTER PART No. 90449-002)	1.30 MAX. AT 0.1~3GHz, 1.40 MAX. AT 3~6GHz, 1.50 MAX. 6~9GHz. 1.65 MAX. AT 9~12GHz		
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : ΔR 20 mohm MAX.		
GROUND CONTACT RESISTANCE	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)	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-1907		PRS-2925
TEST REPORT	TR-14097		TR-24070
PACKING STANDARD	20579-001E: PST-14004 20579-001E-01: PST-14067		
INSTRUCTION MANUAL	HIM-12011	HIM-12012	HIM-16011
APPEARANCE CRITERIA No.	QLS-A***		

Rev.16

MHF® 4L Receptacle



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



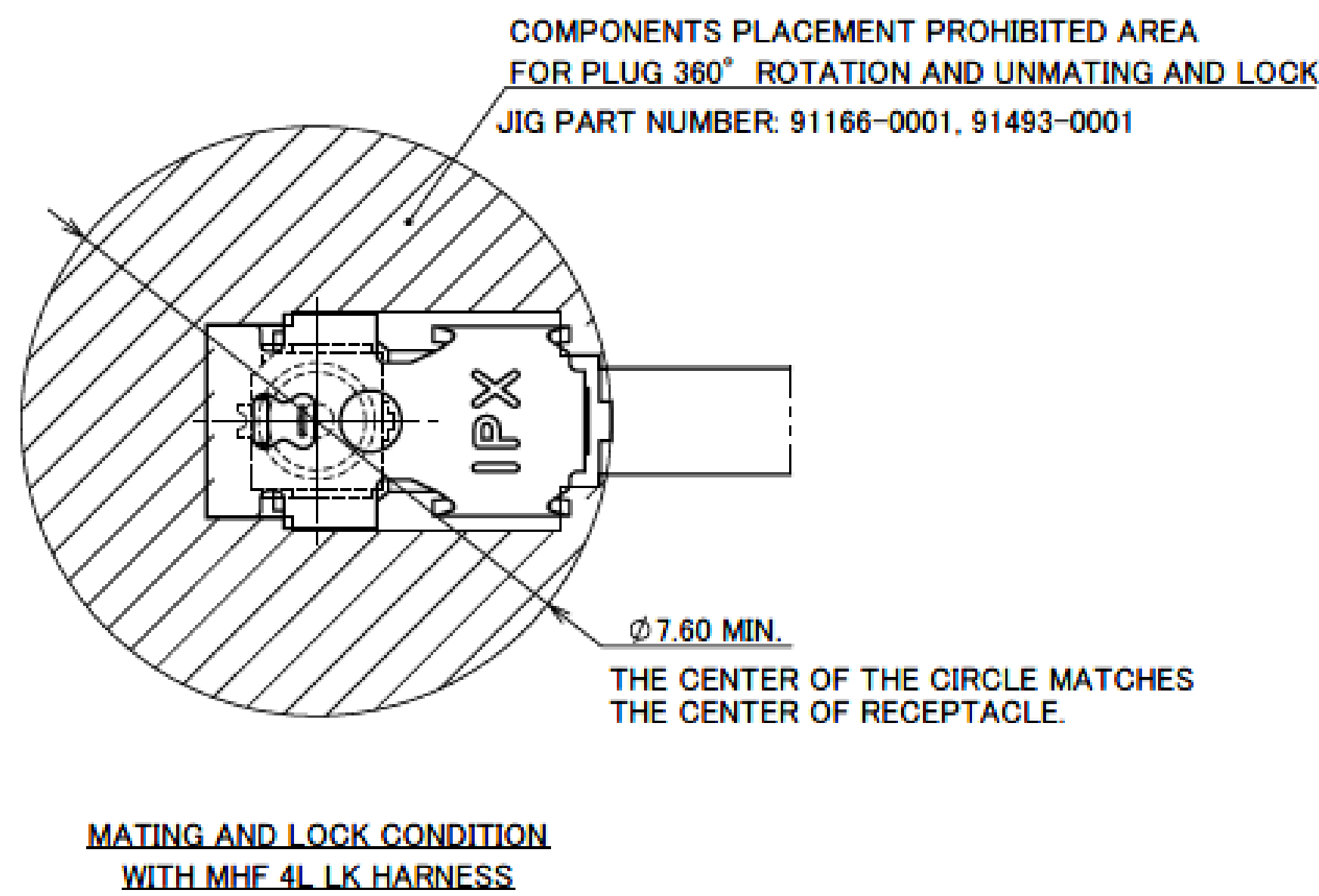
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

NOTE 3. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

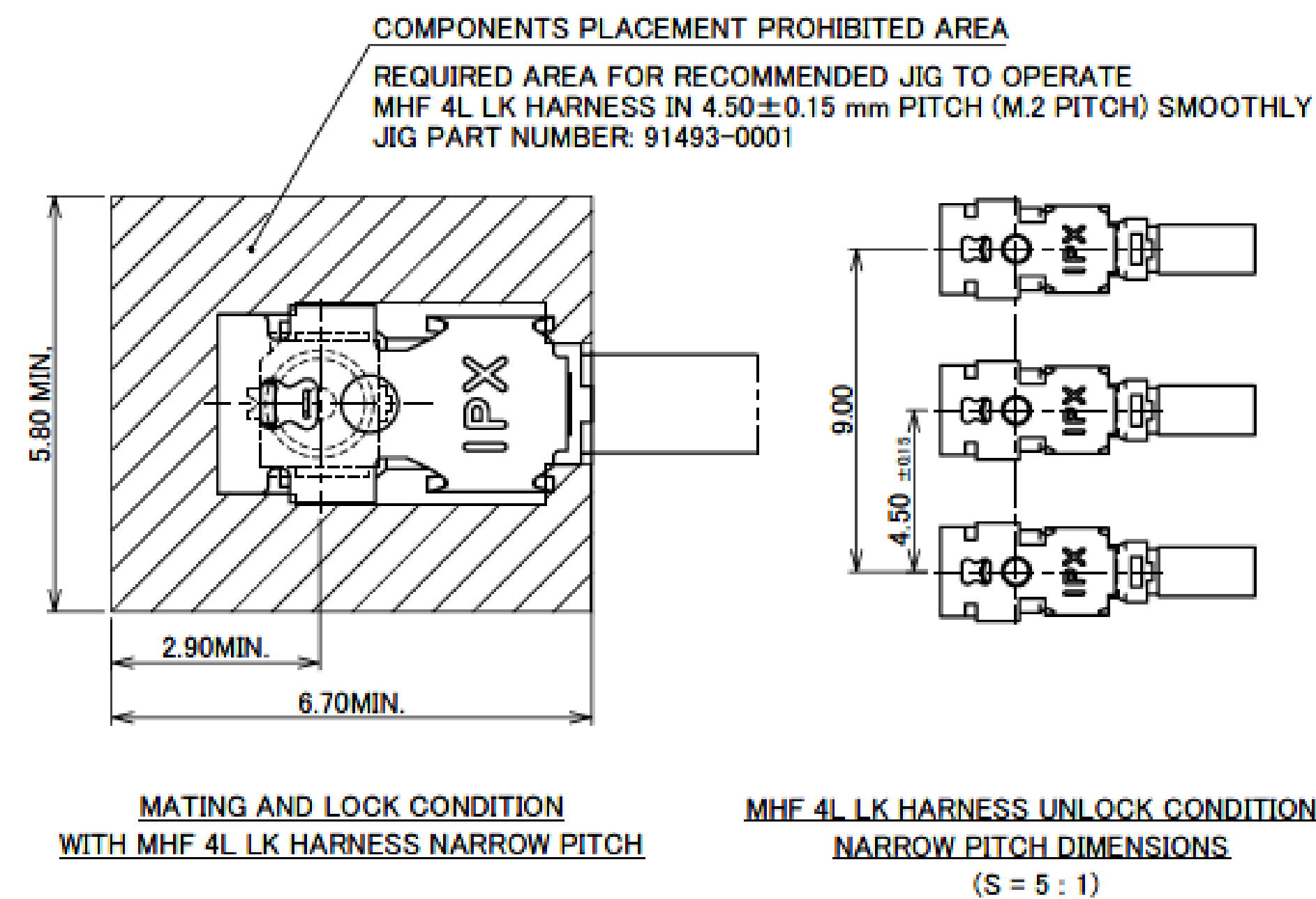
Rev.16

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

SINGLE CONNECTOR LAYOUT



MULTIPLE CONNECTORS LAYOUT

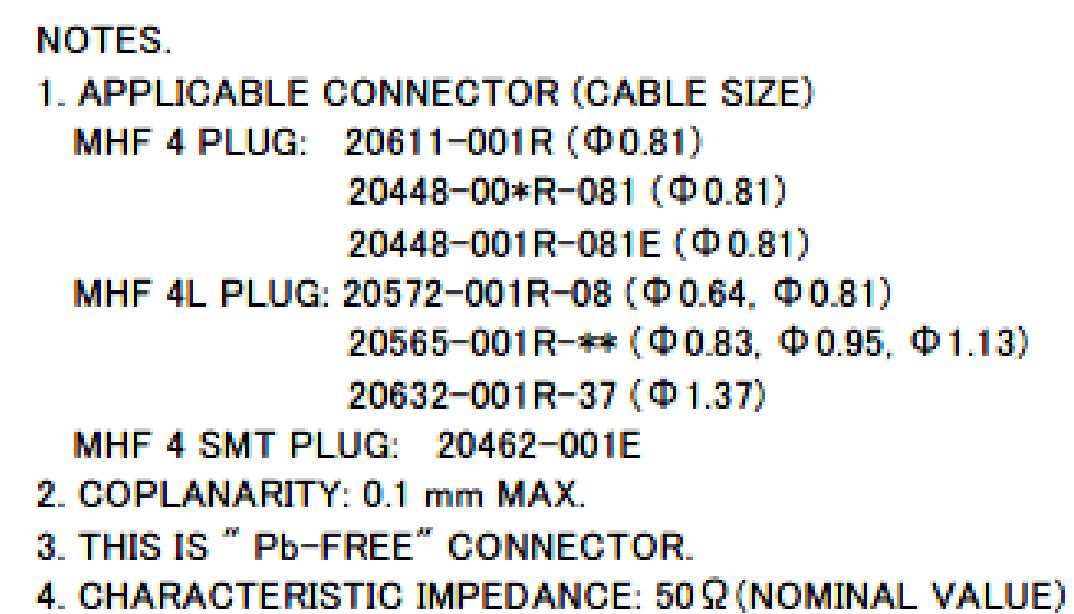


Rev.16

MHF® 4 Receptacle




Halogen Free RoHS Compliant



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

Rev.21

MHF® 4 Receptacle

ITEMS	SPECIFICATION	
APPLICABLE CONNECTOR PART No.	20611-001R (CABLE Φ0.81 TYPE)	20448-001R (CABLE Φ0.81 TYPE)
RATING VOLTAGE	60 V AC (R.M.S)/DC	
RATING FREQUENCY	DC~9GHz	
OPERATING TEMPERATURE	233~363 K (-40°C~+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 : $\triangle$ R 20 mohm MAX.	
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : $\triangle$ R 100 mohm MAX.	INITIAL : 20 mohm MAX. / AFTER TEST : $\triangle$ 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)	-	
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	20449-001E-03: 300-604	
INSTRUCTION MANUAL	HIM-10003	
APPEARANCE CRITERIA No.	QLS-A***	

Rev.21

MHF® 4 Receptacle

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)
RATING VOLTAGE	60 V AC (R.M.S)/DC			
RATING FREQUENCY	DC ~ 9GHz			
OPERATING TEMPERATURE	233~363 K(-40℃~+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 : ΔR 20 mohm MAX.			
GROUND CONTACT RESISTANCE	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)	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	20449-001E-03: 300-604			
INSTRUCTION MANUAL	HIM-12011	HIM-12012		HIM-16011
APPEARANCE CRITERIA No.	QLS-A***			

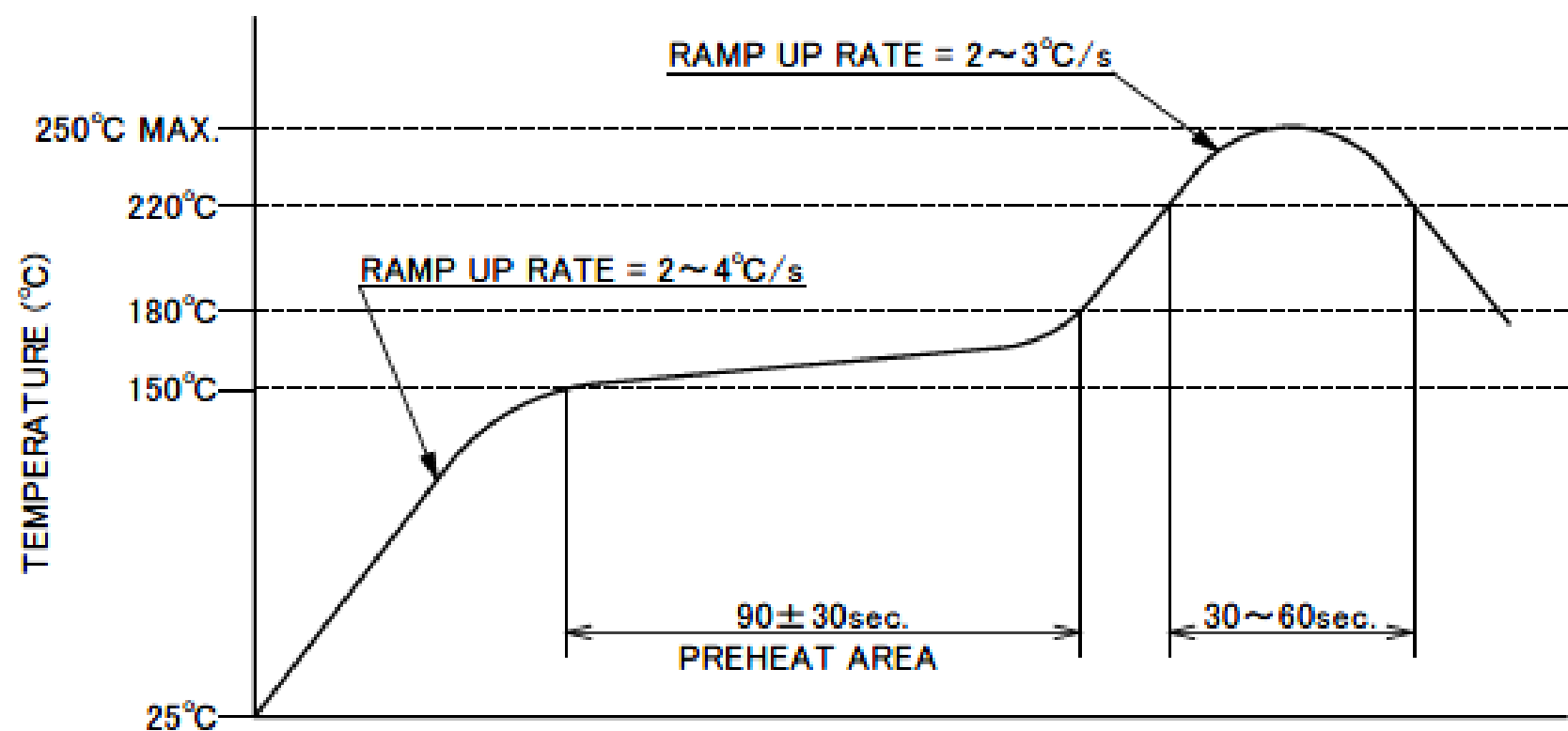
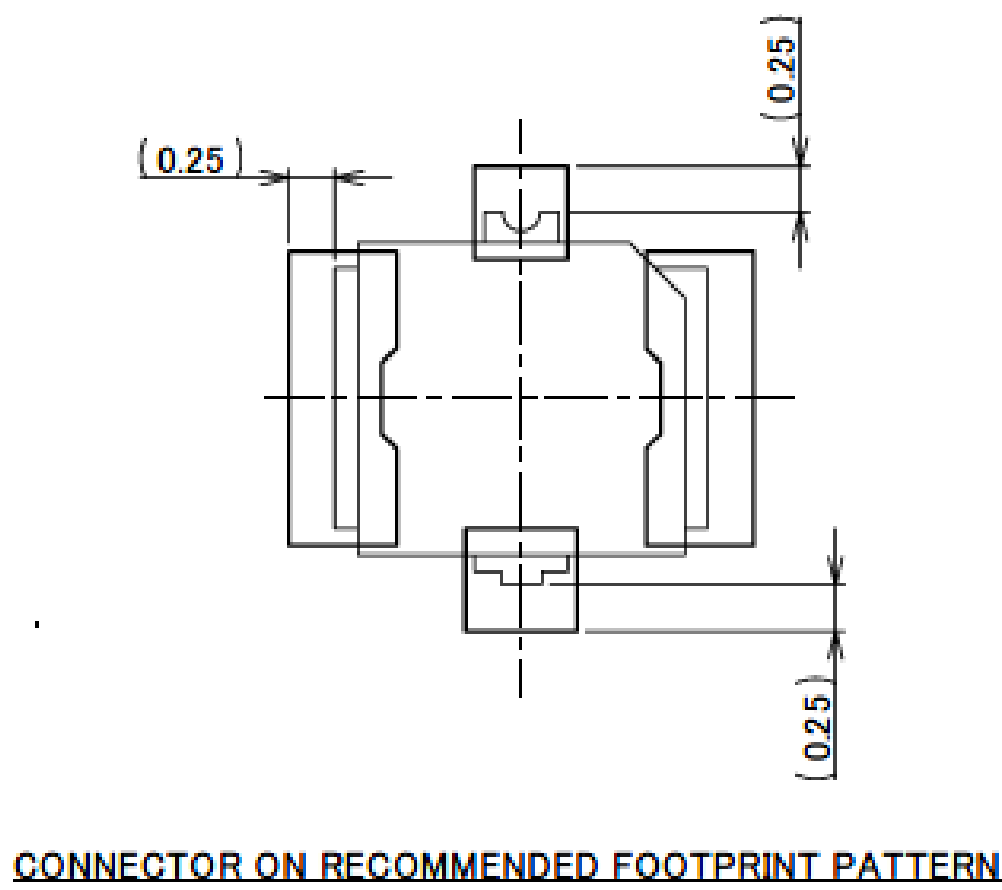
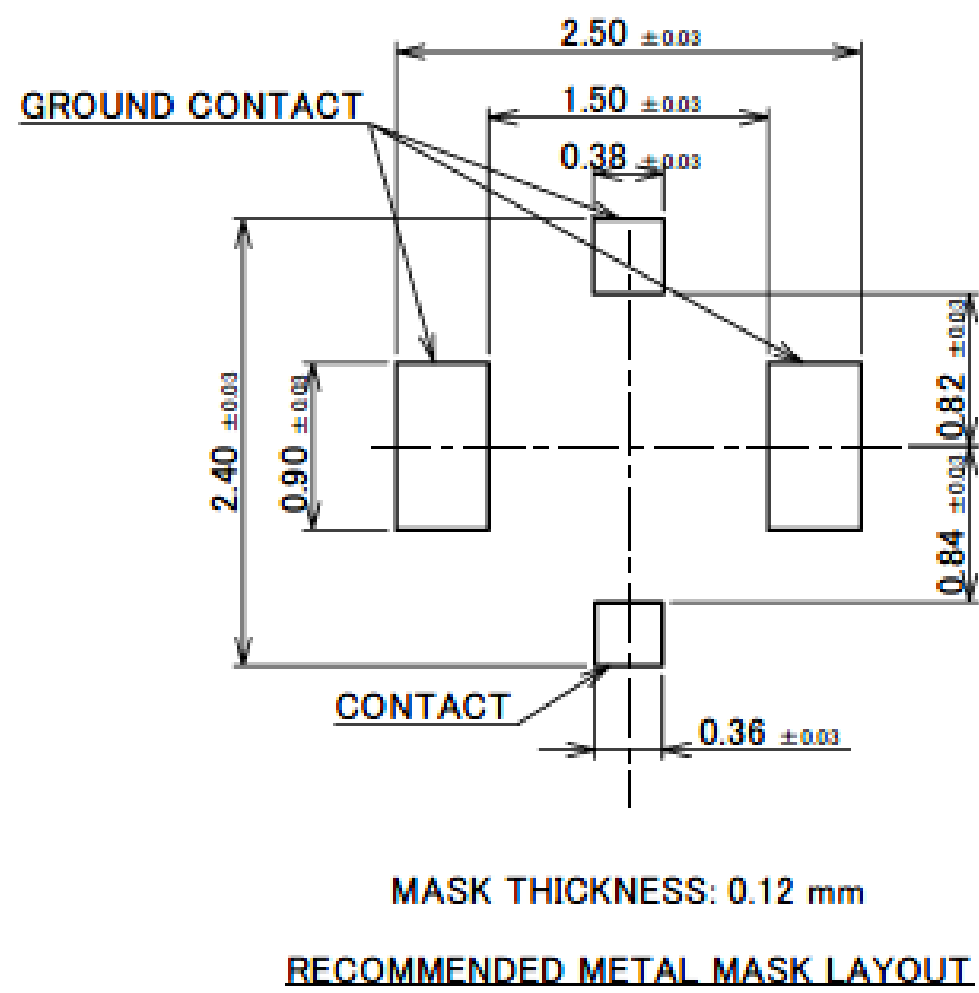
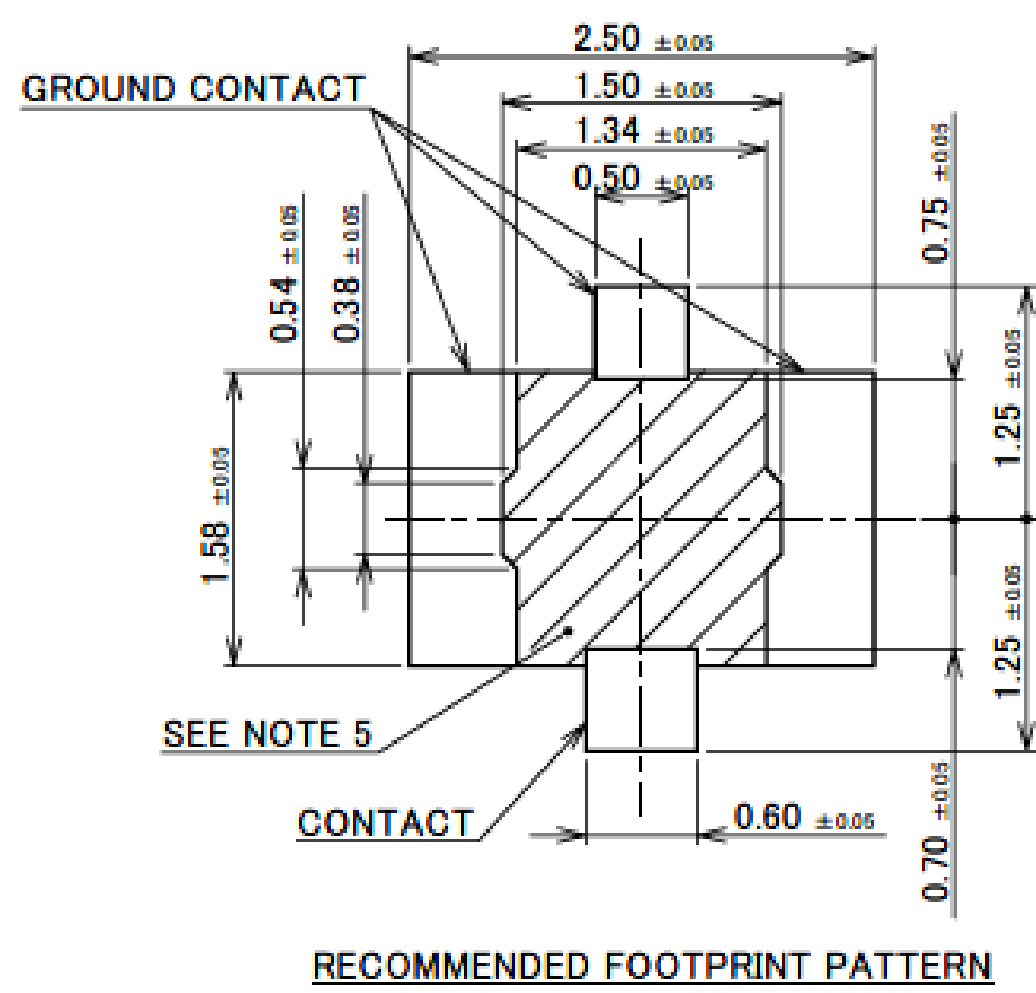
Rev.21

FOR MHF 4 SMT PLUG

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20462-001E (MHF 4 SMT PLUG)
RATING VOLTAGE	60 V AC (R.M.S)/DC
RATING FREQUENCY	DC~9GHz
OPERATING TEMPERATURE	233~363 K(-40°C~+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 : ∠R 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : ∠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 : 15 N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL : 4 N MIN. / AFTER TEST : 2 N MIN.
PRODUCT SPECIFICATION	PRS-1404
TEST REPORT	TR-08022
PACKING STANDARD	20449-001E-03: 300-604
INSTRUCTION MANUAL	HIM-15005
APPEARANCE CRITERIA No.	QLS-A***

Rev.21

MHF® 4 Receptacle

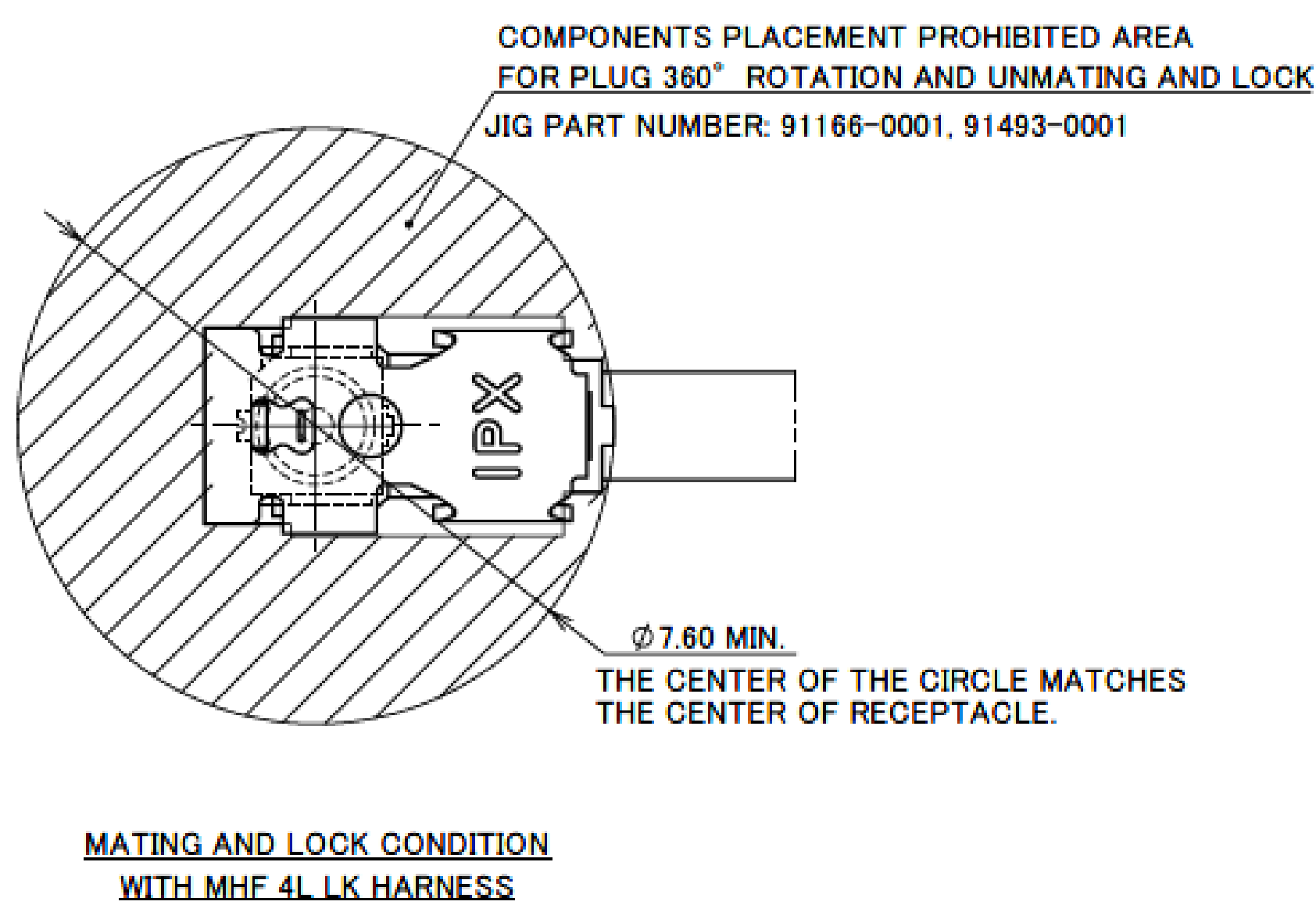


NOTE 5. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

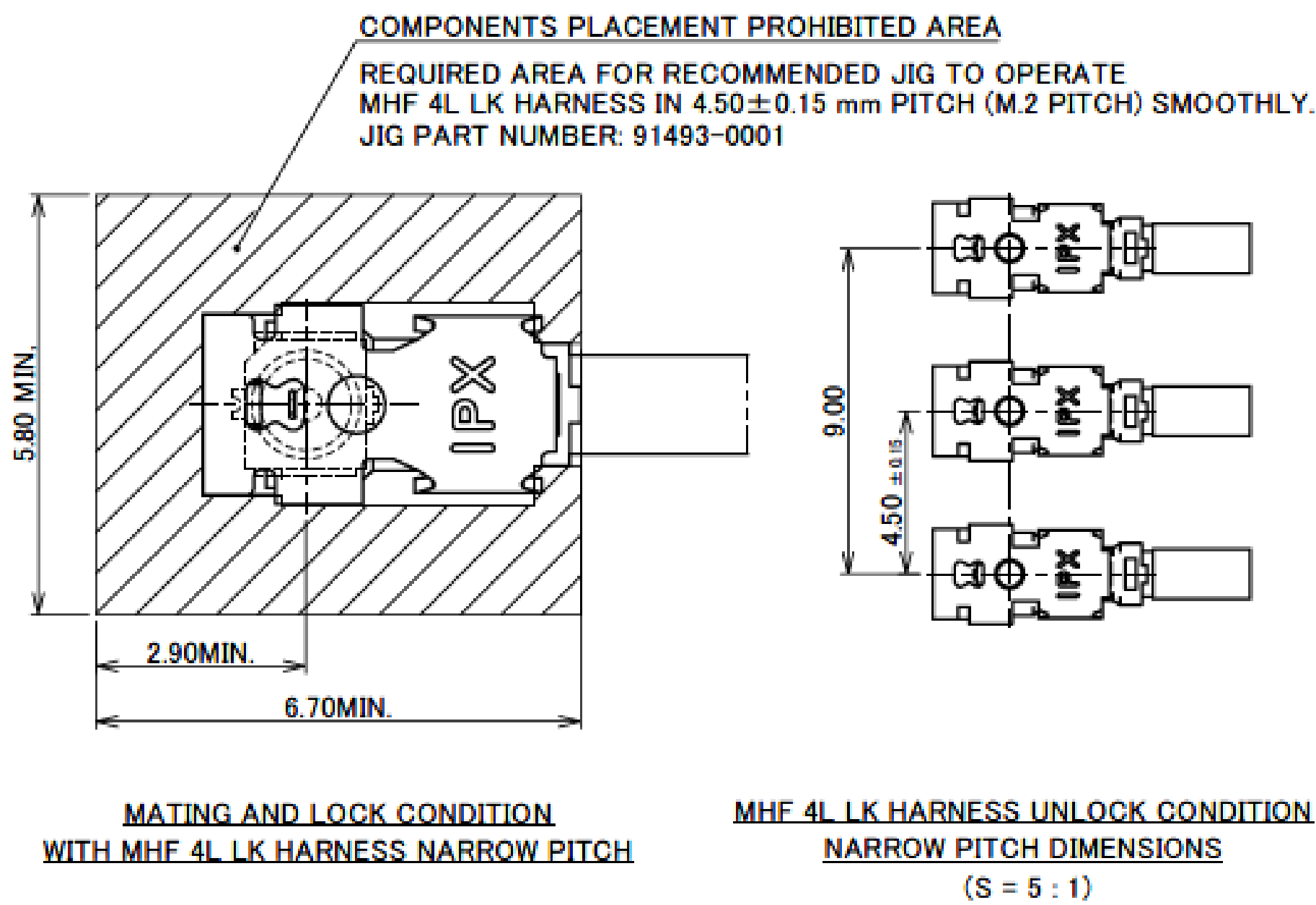
Rev.21

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

SINGLE CONNECTOR LAYOUT

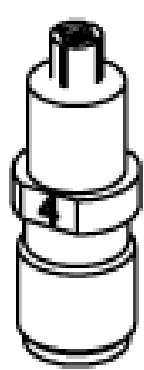


MULTIPLE CONNECTORS LAYOUT

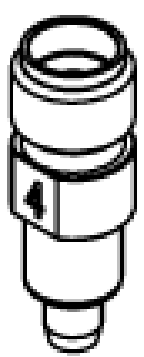


Rev.21

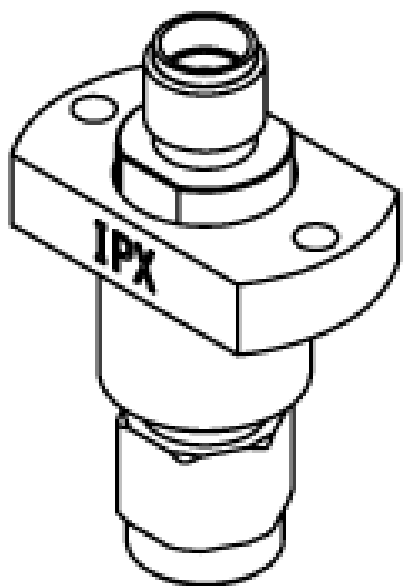
Accessories for MHF® 4L Receptacle



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

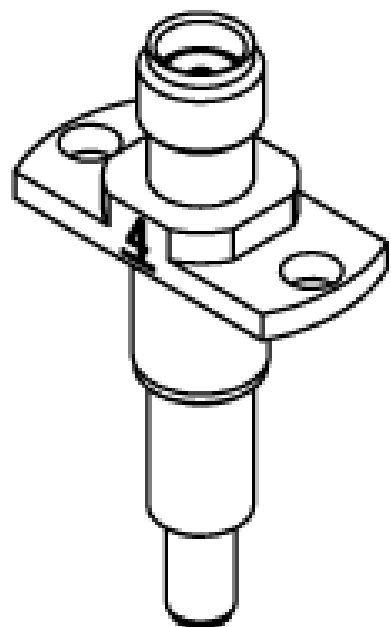


MHF 4 RECEPTACLE HIGH CYCLE ATTACHMENT
PART NO. 90683-0001

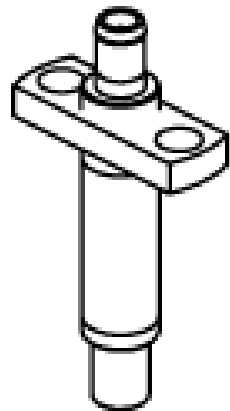


MHF SERIES HIGH CYCLE SMA ADAPTER BASE UNIT
PART NO. 90684-0001

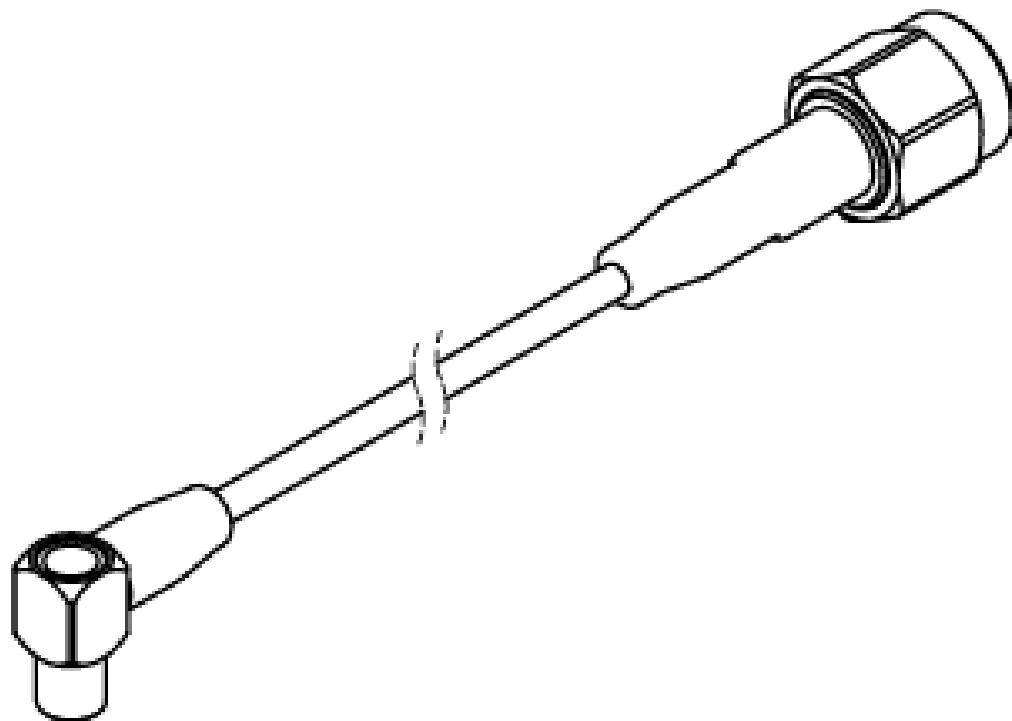
* 90683-0001 AND 90684-0001 SHOULD BE USED TOGETHER.



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.

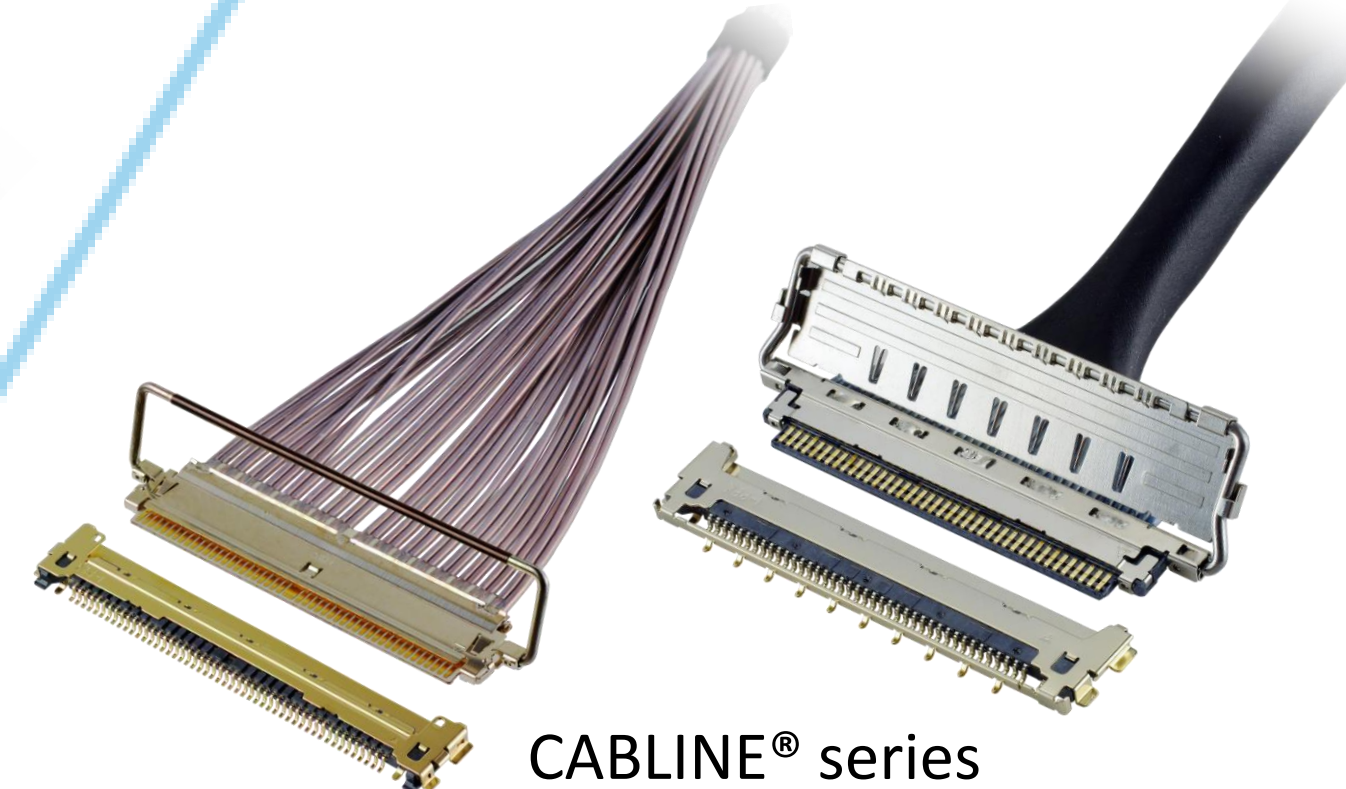
Custom Connectors Available

 RF
Connectors

MHF® series



Micro-coaxial/Twinax
Connectors

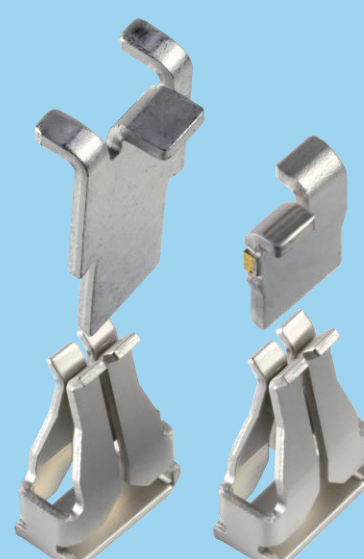


CABLINA® series

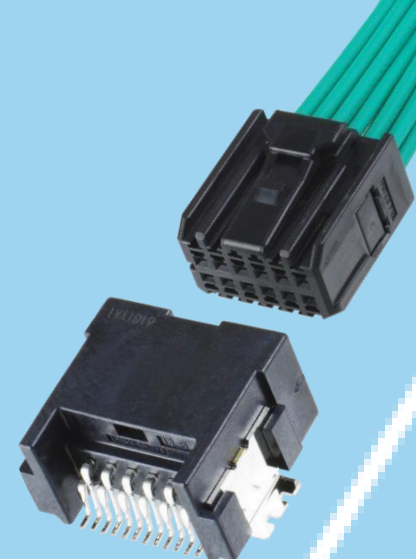


Wire-to-Board
Connectors/
Terminals

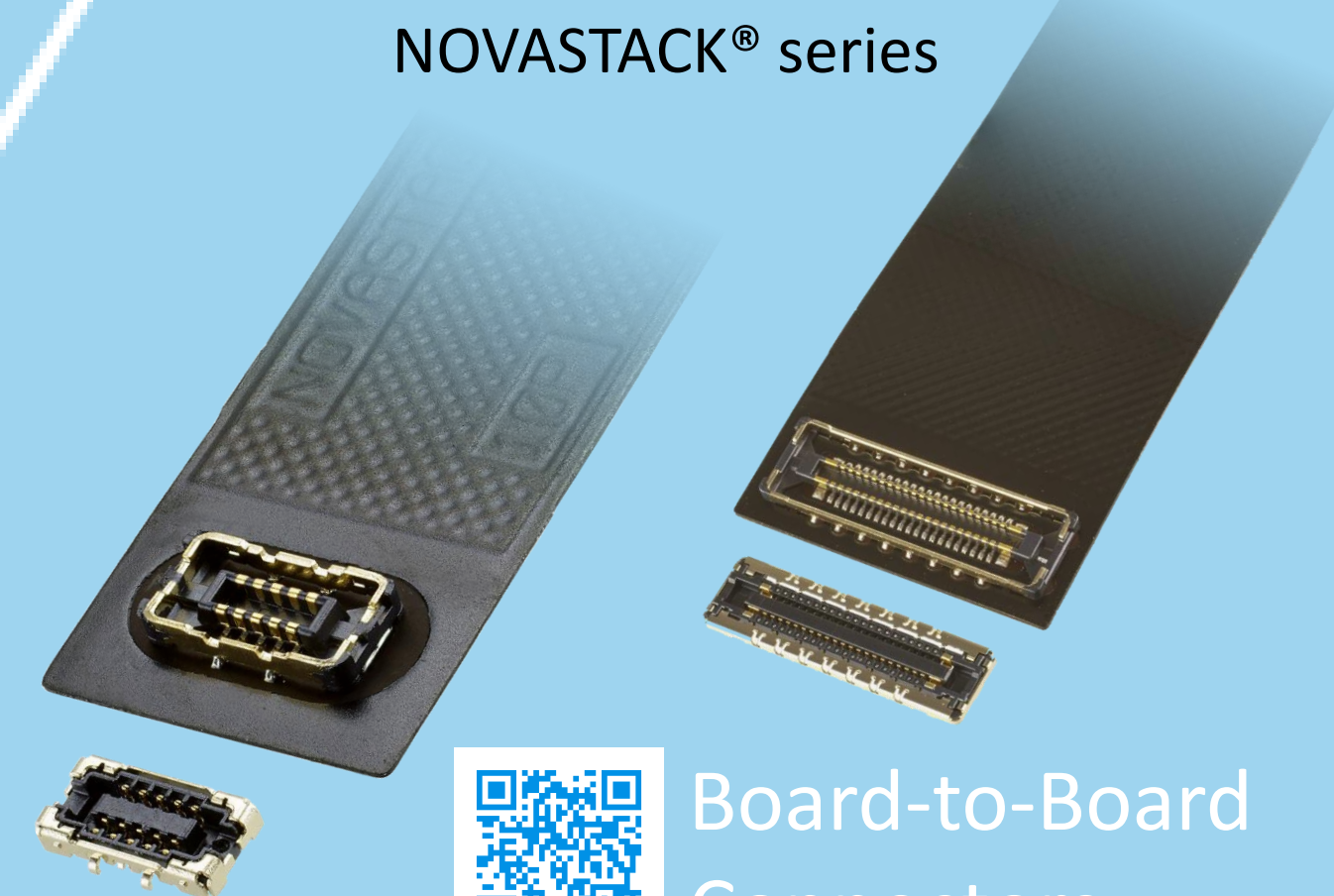
AP series



ISH® series



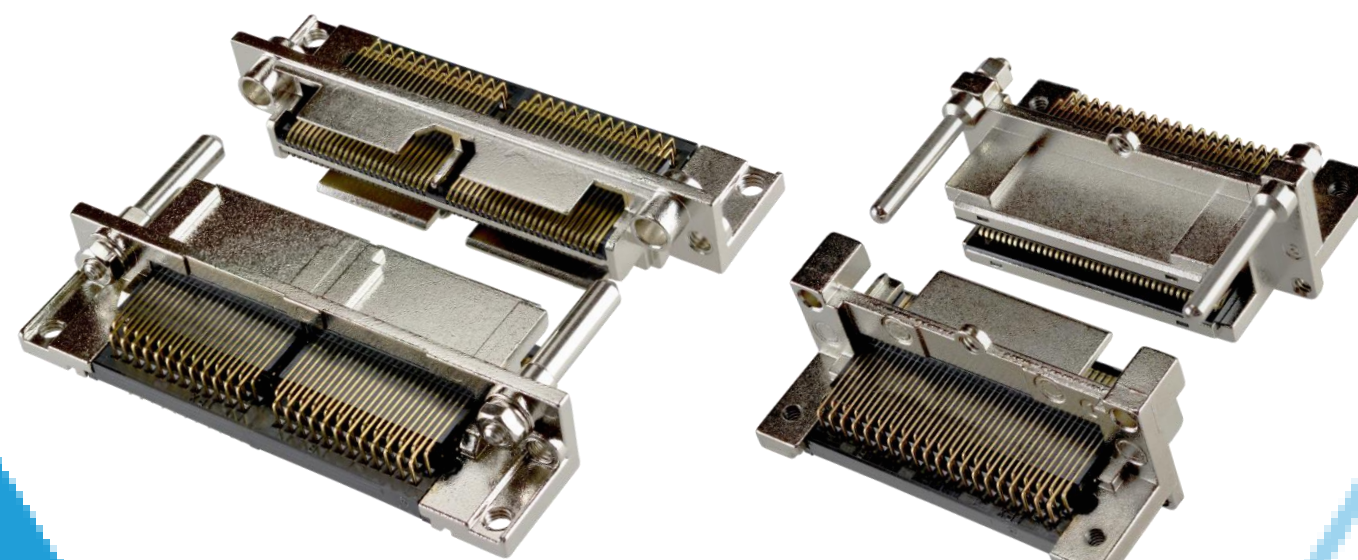
NOVASTACK® series



Board-to-Board
Connectors



I/O
Connectors



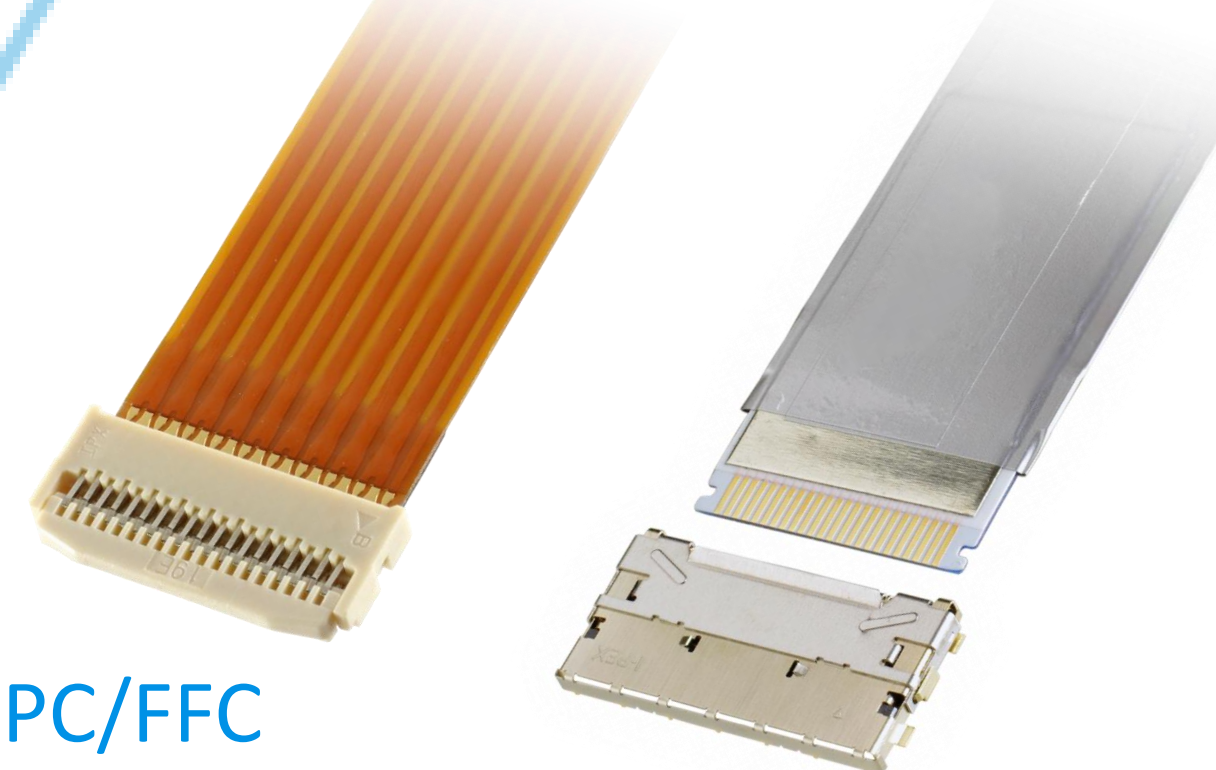
MINIDOCK™ series



FPC/FFC
Connectors

MINIFLEX® series

EVAFLEX® series



Inquiry



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