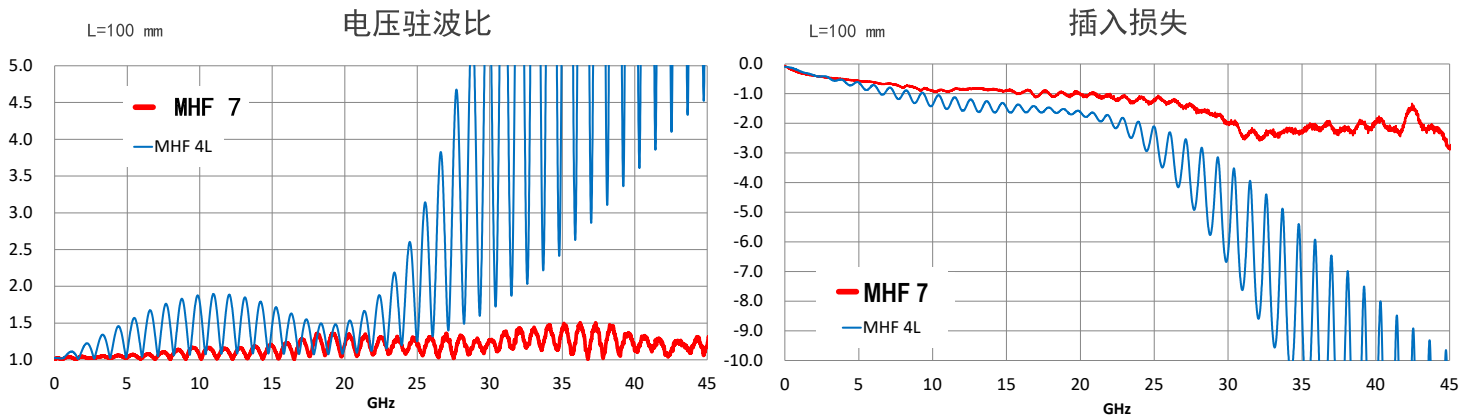




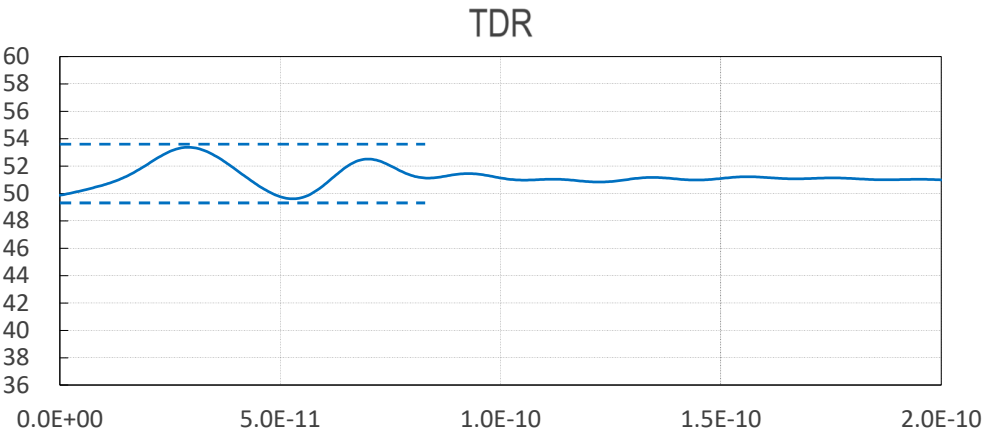
- ✓ 对应 45 GHz 良好的驻波比和插入损耗性能
- ✓ 最小化阻抗变化
- ✓ MHF 7公座适用极细同轴线外径 (AWG)：1.13 mm (30)

Maximum height (mm)	1.4	
Outside dimension of receptacle(mm)	2.1 x 2.0	
Applicable wire gauge	O.D. 1.13 mm / AWG 30	
Frequency	DC~45 GHz (Nominal)	
VSWR (L=100 mm) (Nominal)	DC~5 GHz	1.20 max.
	5 GHz~10 GHz	1.35 max.
	10 GHz~15 GHz	1.50 max.
	15 GHz~20 GHz	1.68 max.
	20 GHz~45GHz	1.68 max.
Service temp. (Celsius)	-40 degree ~ +90 degree	
Characteristic impedance	50 ohm	
Rated voltage	AC60V	
Contact resistance	20m ohm max.	
Withstand voltage	AC200V/min	
Insulation resistance	500M ohm min./DC100V	

对应 45 GHz 良好的驻波比和插入损耗性能



最小化阻抗变化



MHF 7公座适用极细同轴线外径 (AWG)：1.13 mm (30)

同轴线外径 (中心导体 AWG)	组合高度 最大 1.4 mm
2.00 mm (26)	
1.80 mm (30)	
1.37 mm (30)	
1.32 mm (32)	
1.13 mm (30)	○
1.13 mm (32)	
0.95 mm (33)	
0.81 mm (33)	
0.81 mm (36)	
0.64 mm (36)	
0.48 mm (38)	
FPC	
母座	MHF 7母座

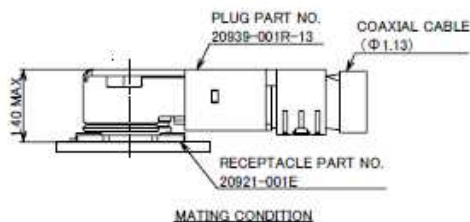
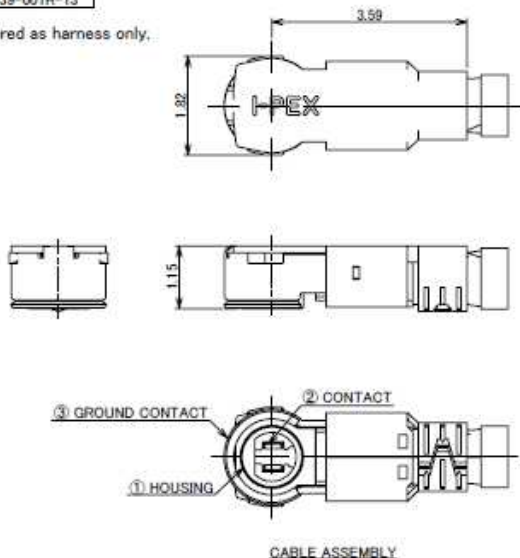
MHF[®] 7

Component Parts Detail

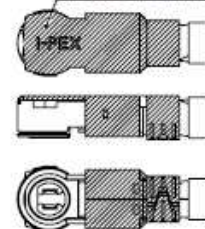
MHF[®] 7 plug

Recommended P/N	20939-001R-13
PART NO.	20939-001R-13

Offered as harness only.



HATCHED AREA: Ni PLATING AREA



NOTES

1. APPLICABLE CONNECTOR: 20921-001E
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.

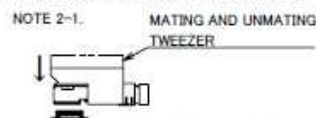
2-2. UNMATING

USE THE MATING AND UNMATING TOOL (PART NO. 91187-0001) AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

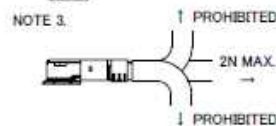
3. PERMISSIBLE LOAD OF CABLE AT MATING.

4. CHARACTERISTIC IMPEDANCE: 50 Ω (NOMINAL VALUE)

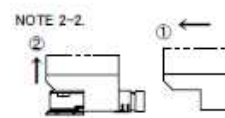
NOTE 2-1.



NOTE 3.



NOTE 2-2.



3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER: Ni 0.7 μm MIN. CONTACT PART: Au 0.1 μm MIN. [Ni PLATING AREA] Ni ONLY
2	CONTACT	CORSON ALLOY	ALL OVER: Ni 1.00 μm MIN. CONTACT PART: Au 0.1 μm MIN.
1	HOUSING	LCP	UL94V-0, WHITE
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS

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MHF® 7 plug

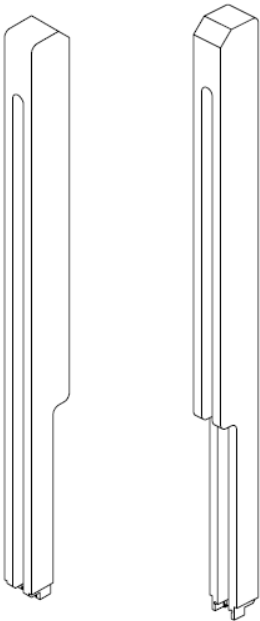
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20921-001E
RATING VOLTAGE	60 V AC (R.M.S)/DC
RATING FREQUENCY	DC~43.5 GHz
OPERATING TEMPERATURE	233~363 K (-40°C~+90°C)
OPERATING HUMIDITY	90% MAX. (NON-CONDENSING)
CHARACTERISTIC IMPEDANCE	50 ohm (NOMINAL VALUE)
VSWR	1.433 MAX. AT 0.1 ~ 1.0 GHz, 1.671 MAX. AT 24.25 ~ 43.50 GHZ
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : $\leq$ 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : $\leq$ 20 mohm MAX.
INSULATION RESISTANCE	INITIAL : 500 Mohm MIN. / AFTER TEST : 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL: 25N MAX., 5N MIN. (VERTICAL DIRECTION) AFTER TEST: 25N MAX., 5N MIN. (VERTICAL DIRECTION)
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 15N MAX., 5N MIN. (VERTICAL DIRECTION) AFTER TEST: 15N MAX., 5N MIN. (VERTICAL DIRECTION)
CRIMP STRENGTH	5N MIN.
PRODUCT SPECIFICATION	PRS-2574
TEST REPORT	TR-19022
INSTRUCTION MANUAL	HIM-19008
APPEARANCE CRITERIA No.	QLS-A***

Rev.3

Accessories for MHF® 7 plug



MHF 7 PLUG INSPECTION ADAPTER
PART NO. 91106-0001

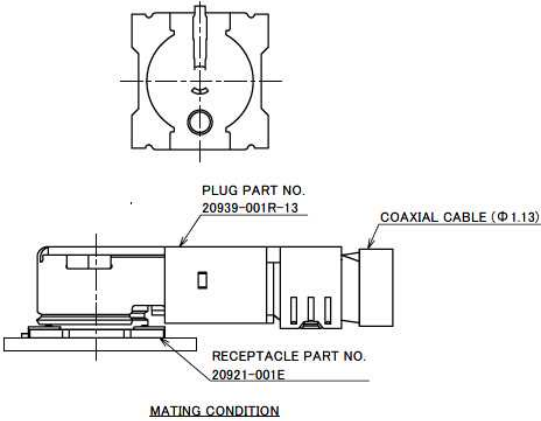
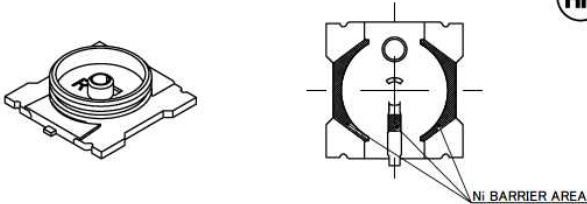
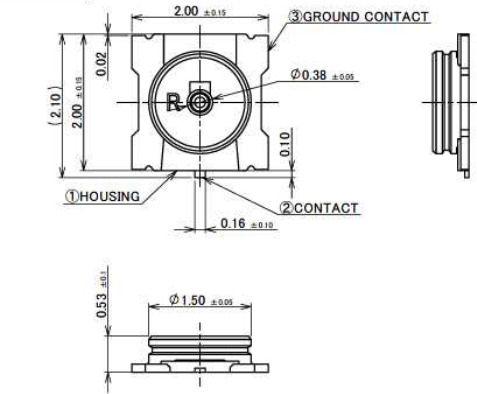


MHF 7 13 TYPE MATING AND UNMATING TWEEZER
PART NO. 91187-0002

Rev.3

MHF® 7 Receptacle

Recommended P/N	20921-001E
PART NO.	
20921-001E	



- NOTES
- 1. APPLICABLE CONNECTOR
20939-001R-13
 - 2. COPLANARITY: 0.08mm MAX.
 - 3. CHARACTERISTIC IMPEDANCE: 50Ω (NOMINAL VALUE)

3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER: Ni 1.00 μm MIN. CONTACT PART: Au 0.05 μm MIN. SOLDERING PART: Au AREA: 0.02 μm MIN.
2	CONTACT	CORSON ALLOY	ALL OVER: Ni 1.00 μm MIN. CONTACT PART: Au 0.1 μm MIN. SOLDERING PART: Au AREA: 0.02 μm MIN.
1	HOUSING	LCP	UL94V-0, WHITE
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS

Confidential C

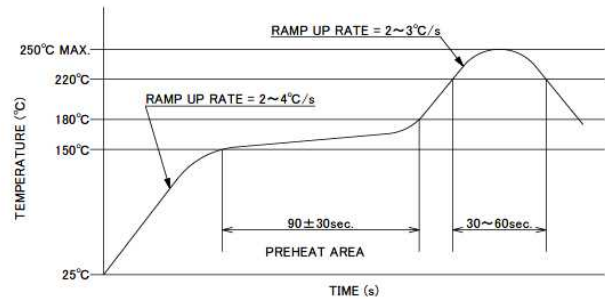
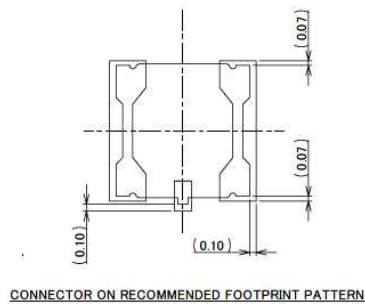
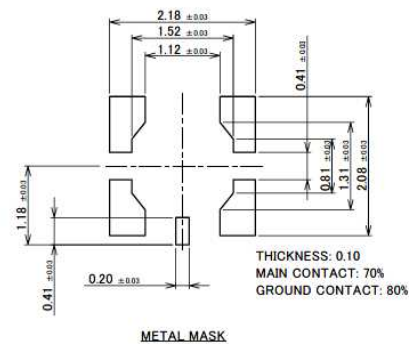
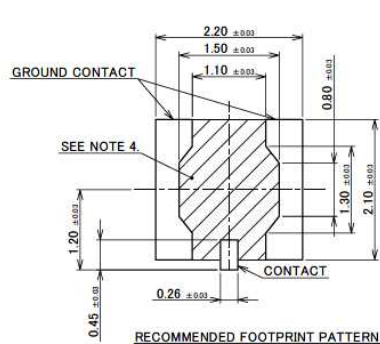
Rev.5

MHF® 7 Receptacle

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20939-001R-13
RATING VOLTAGE	60 V AC (R.M.S)/DC
RATING FREQUENCY	DC ~ 43.5 GHz
OPERATING TEMPERATURE	233 ~ 363 K (-40°C ~ +90°C)
OPERATING HUMIDITY	90% MAX. (NON-CONDENSING)
CHARACTERISTIC IMPEDANCE	50 ohm (NOMINAL VALUE)
VSWR	1.433 MAX. AT 0.1 ~ 1.0 GHz, 1.671 MAX. AT 24.25 ~ 43.50 GHz
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : 20 mohm MAX.
INSULATION RESISTANCE	INITIAL : 500 Mohm MIN. / AFTER TEST : 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC200V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL: 25N MAX., 5N MIN. (VERTICAL DIRECTION) AFTER TEST: 25N MAX., 5N MIN. (VERTICAL DIRECTION)
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 15N MAX., 5N MIN. (VERTICAL DIRECTION) AFTER TEST: 15N MAX., 5N MIN. (VERTICAL DIRECTION)
CRIMP STRENGTH	5N MIN.
PRODUCT SPECIFICATION	PRS-2574
TEST REPORT	TR-19022
PACKING STANDARD	PST-18124
INSTRUCTION MANUAL	HIM-19008
APPEARANCE CRITERIA No.	QLS-A***

Rev.5

MHF[®] 7 Receptacle



NOTES:
4. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

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Rev.5

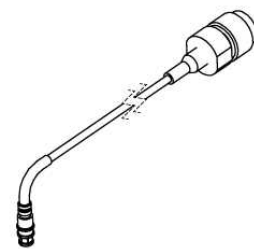
Accessories for MHF[®] 7 Receptacle



MHF 7 RECEPTACLE INSPECTION ADAPTER
PART NO. 91107-0001



MHF 7 RECEPTACLE HIGH CYCLE N30 SMPM ADAPTER
PART NO. 91145-0001



MHF SERIES N30 SMPM TO 240MM ADAPTER CABLE
PART NO. 91137-J300

* 91145-0001 AND 91137-J300 SHOULD BE USED TOGETHER.

Rev.5



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