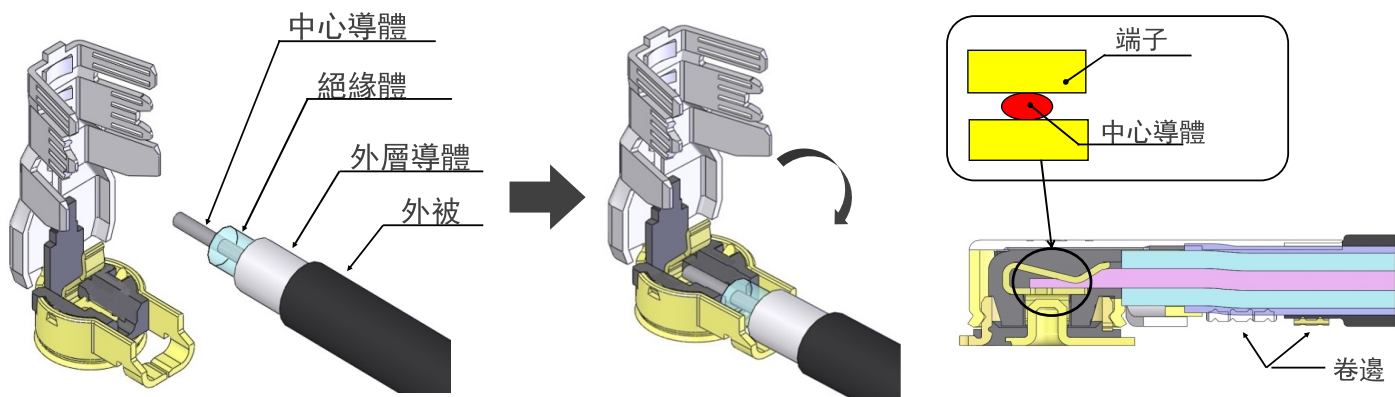




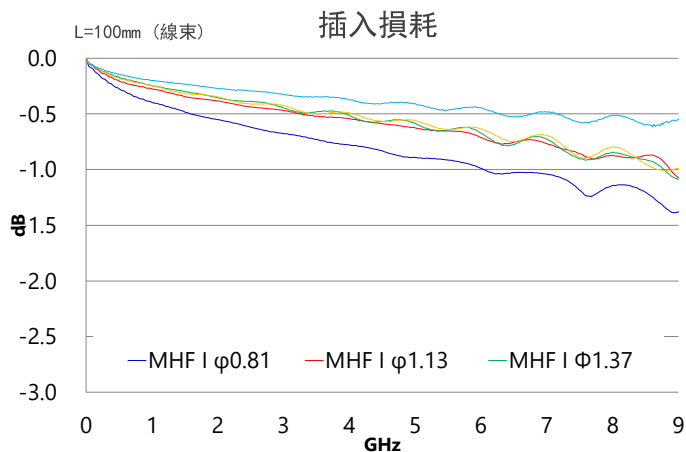
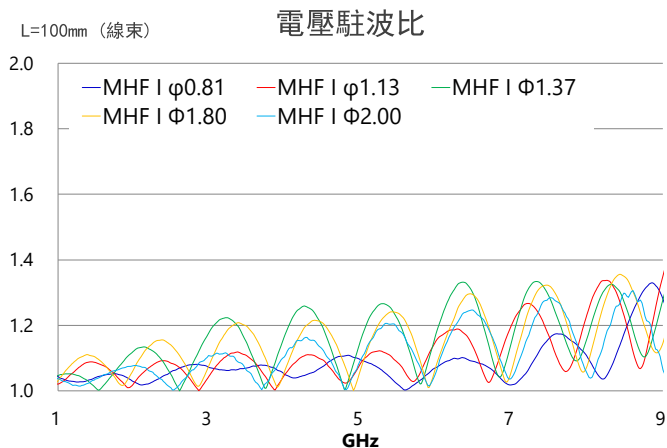
- ✓使用 “i-Fit<sup>®</sup>” 技術的無焊料極細同軸線終端
- ✓與外徑 2.0 mm 的極細同軸線組合，可能實現低插入損耗
- ✓2.0 mm 外徑 (AWG #26) 的極細同軸線公座，可匹配標準 MHF I 母座

Maximum height (mm)		3.0	
Outside dimension of receptacle (mm)		3.1 x 3.0	
Applicable wire gauge		O.D. 1.80 / 1.37 mm / AWG 30 O.D. 1.32 / 1.13 mm / AWG 32 O.D. 0.81 mm / AWG 36	
Frequency		DC ~ 9 GHz	
Connector		PLUG	RECE
VSWR (L=100 mm)	DC ~ 3 GHz	1.3 max.	1.3 max.
	3 GHz ~ 6 GHz	1.5 max.	1.4 max.
	6 GHz ~ 9 GHz	1.6 max.	1.8 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	

## 使用 “i-Fit<sup>®</sup>” 技術的無焊料極細同軸線終端



## 與外徑 2.0 mm 的極細同軸線組合，可能實現低插入損耗



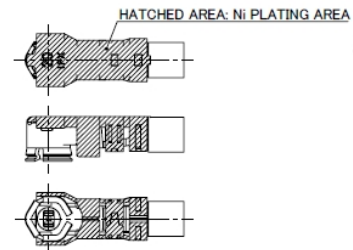
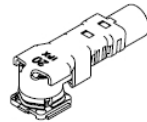
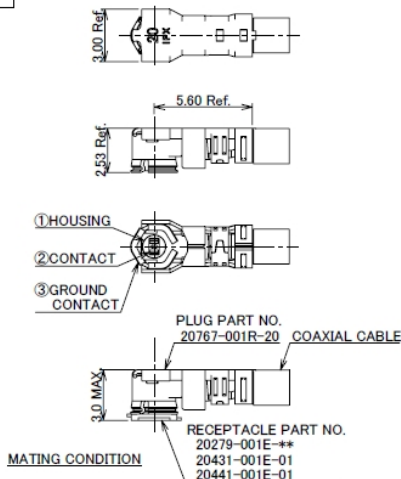
## 2.0 mm 外徑 (AWG #26) 的極細同軸線公座，可匹配標準的 MHF I 母座

同軸線外徑 (中心導體 AWG)	組合高度	
	最大 3.0 mm	最大 2.5 mm MHF I LK 最大 2.9 mm
2.00 mm (26)	○	
1.80 mm (30)		○
1.37 mm (30)		○
1.32 mm (32)		○
1.13 mm (32)		○
0.95 mm (33)		
0.81 mm (33)		
0.81 mm (36)		○
0.64 mm (36)		
0.48 mm (38)		
母座	MHF I/II 母座	

# MHF<sup>®</sup> I (2.0 mm Cable O.D.) Component Parts Detail

## MHF<sup>®</sup> I plug (2.0 mm Cable O.D.)

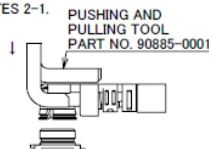
Recommended P/N	20767-001R-20
PART No.	
20767-001R-20	



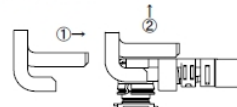
### NOTES

1. APPLICABLE CONNECTOR:  
20279-001E-\*\*, 20431-001E-01, 20441-001E-01
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
- 2-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90885-0001)  
USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PLEASE 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.

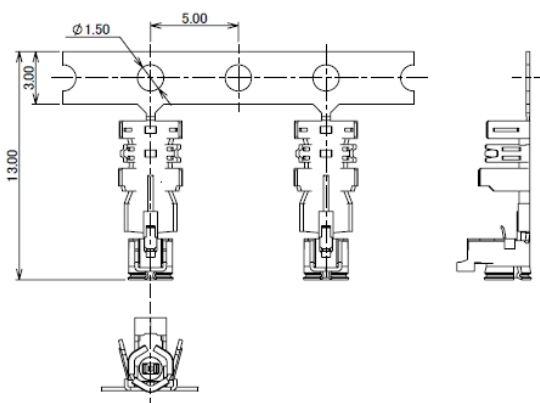
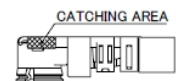
### NOTES 2-1.



### NOTES 2-2-1.



### NOTES 2-2-2.



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

# MHF® I plug (2.0 mm Cable O.D.)

ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR PART No.	20279-001E-**-**
RATING VOLTAGE	60 V AC (R.M.S)
RATING FREQUENCY	DC~9GHz
OPERATING TEMPERATURE	233~363 K (-40°C~+90°C)
VSWR	1.3 MAX. AT 0.1~3 GHz, 1.5 MAX. AT 3~6 GHz, 1.6 MAX. AT 6~9 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: $\Delta$ R 20 mohm MAX.
GROUND CONTACT RESISTANCE	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)	5 N MIN. / 3 N MIN.
CRIMP STRENGTH	15 N MIN.
PRODUCT SPECIFICATION	PRS-2490
TEST REPORT	TR-18041
PACKING STANDARD	PST-16007
INSTRUCTION MANUAL	HIM-17017
APPEARANCE CRITERIA No.	QLS-A***

Rev.2

# MHF® I plug (2.0 mm Cable O.D.)

PART NO.	20767-001R-20		
APPLICABLE CABLE NOMINAL DIMENSION			
BRAIDED SHIELD OF OUTER CONDUCTOR	SINGLE		
PART NO. OF SEMI AUTO TERMINATION MACHINE	90876-020		
CRIMP HEIGHT	CH-1 i-Fit® PART	CH-2 SHIELD PART	CH-3 JACKET PART
	 2.28~2.36	 1.81~1.87	 1.95~2.01

Rev.2

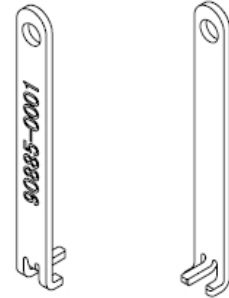
# Accessories for MHF® I plug (2.0 mm Cable O.D.)



MHF I/II SMA ADAPTOR  
PART NO. 90193-001



MHF I/II PLUG INSPECTION CONNECTOR  
PART NO. 90194-001

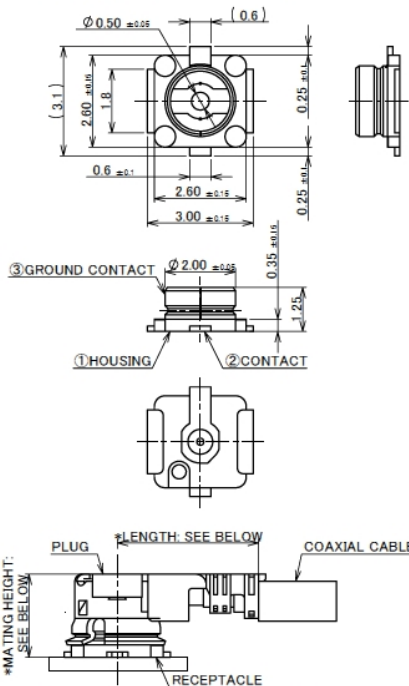


FRONT SIDE      BACK SIDE  
MHF I PLUG (2.00) PUSHING AND PULLING TOOL  
PART NO. 90885-0001

Rev.2

## MHF® I Receptacle

Recommended P/N		20279-001E-03
PART NO.	PACKING REEL	QUANTITY IN 1 REEL
20279-001E-01	PLASTIC REEL	2,500
	CORRUGATED PAPER REEL	2,500
20279-001E-03	PLASTIC REEL	5,000
20279-001E-05	PLASTIC REEL	10,000



- NOTES
1. APPLICABLE CONNECTOR PART NO.  
MHF I PLUG  
20278-11R-\*\*-  
20351-\*\*\*R-37  
20631-\*\*\*R-\*\*-  
20670-001R-\*\*-  
20767-001R-20  
MHF II PLUG  
20311-011R-\*\*-  
20686-001R-08
  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 μm MIN. CONTACT PART Au 0.05 μm MIN. SOLDERING PART Au 0.05 μm MIN.
2	CONTACT	BRASS	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.10 μm MIN. SOLDERING PART Au 0.03 μm MIN.
1	HOUSING	LCP	UL94V-0, WHITE

\*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)  
3.8 ± 0.3 AT PLUG PART NO. 20686-001R-08, 20311-011R-\*\*-  
\*MATING HEIGHT: 2.5 MAX. AT PLUG PART NO. 20670-001R-\*\*-  
3.0 MAX. AT PLUG PART NO. 20767-001R-20  
2.0 ± 0.1 AT PLUG PART NO. 20686-001R-08, 20311-011R-\*\*-  
MATING CONDITION

Rev.25

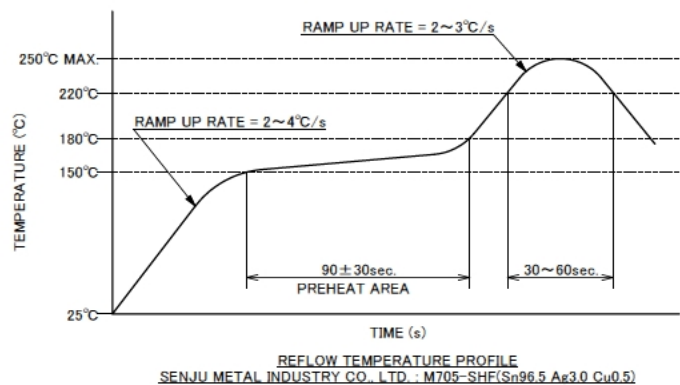
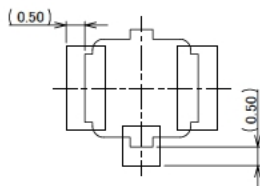
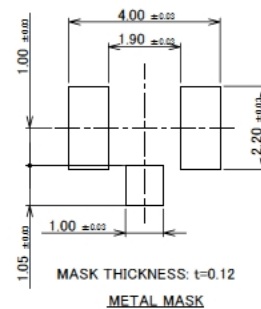
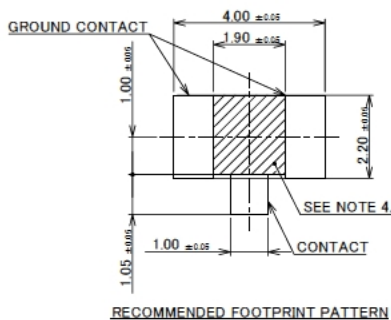
# MHF® I Receptacle

ITEMS	SPECIFICATION		
	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)	20686-001R-08 (MHF II PLUG Ni TOP 0.81)
RECOMMENDED APPLICABLE CONNECTOR PART NO.			
RATING VOLTAGE	60 V AC (R.M.S.)		
RATING FREQUENCY	DC~9GHz		
OPERATING TEMPERATURE	233~383K (-40°C~+90°C)		
VSWR	RECEPTACLE: 1.3 MAX. AT 0.1~3 GHz, 1.4 MAX. AT 3~6 GHz, 1.8 MAX. AT 6~9 GHz		
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: $\Delta$ R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	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.		INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.
PRODUCT SPECIFICATION	PRS-2105	PRS-2490	PRS-2106
TEST REPORT	TR-15059	TR-18041	TR-15060
PACKING STANDARD	20279-001E-01: 300-232 (CORRUGATED PAPER REEL) PST-12002 (ANTI-STATIC PLASTIC REEL) 20279-001E-03: 300-850 20279-001E-05: PST-13040		
INSTRUCTION MANUAL	HIM-10002		HIM-12010
APPEARANCE CRITERIA No.	QLS-A***		

※UNLESS OTHERWISE SPECIFIED, 20279-001E-01 WILL DERIVED IN CORRUGATED PAPER REELS.  
CONTACT YOUR I-PEX SALES IF YOU WISH FOR PLASTIC REELS.

Rev.25

# MHF® I Receptacle



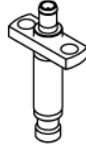
NOTES  
4. CUT OUT PROHIBITION AREA

Rev.25

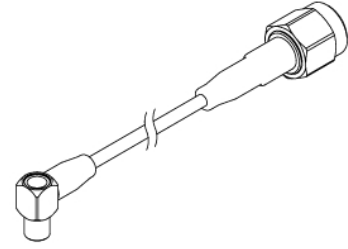
# Accessories for MHF® I Receptacle



MHF I/II SMA ADAPTOR  
PART NO. 90193-002



4.5MM HIGH CYCLE TEST PROBE FOR MHF/MHF A  
PART NO. 90575-0001



4.5MM HIGH CYCLE TEST PROBE CABLE ASS'Y  
PART NO. 90577-\*\*\*\*

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

Rev.25

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