MHF[®] 5L

15 GHz까지 대응하는 전송특성에 우수한 커넥터(VSWR 1.6 max. @ 15 GHz), 결합 높이 1.3 mm max.

	Product Specifications:				
	Mated Heigh	nt (mm max.)	1.3		
	Rece. SMT Size (mm)		2.0 x 2.0		
	Applicable Frequency		DC ~ 15 GHz		
	Characteristic Impedance		50 ohm		
		DC∼3 GHz	1.30 max.		
	VCVAVD	3∼6 GHz	1.40 max.		
	VSWR (L=100 mm)	6∼9 GHz	1.50 max.		
		9∼12 GHz	1.50 max.		
		12∼15 GHz	1.60 max.		

_	Applicable Cable Size:			
	O.D. 1.13 mm / AWG 32			
	O.D. 1.13 mm / AWG 32 O.D. 0.81 mm / AWG 33			
1	Annlicable Standards (Reference Only):			

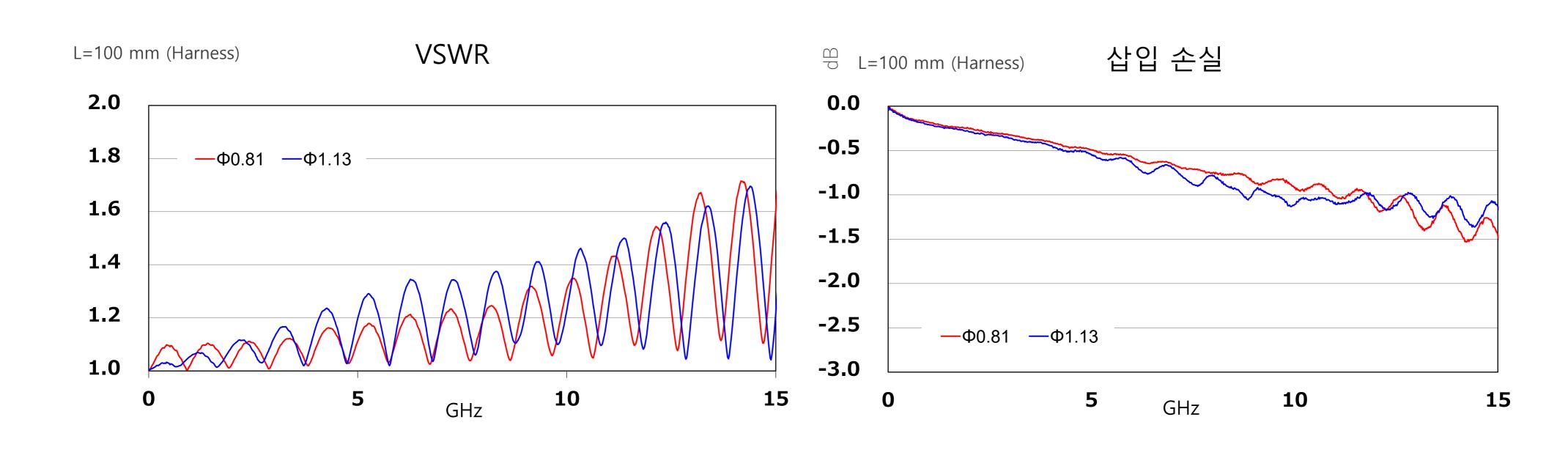
Applicable Standards (Reference Only):

5G sub-6, Wi-Fi 6E, WiGig, LTE/LTE-Advanced, LPWA, Bluetooth, GPS

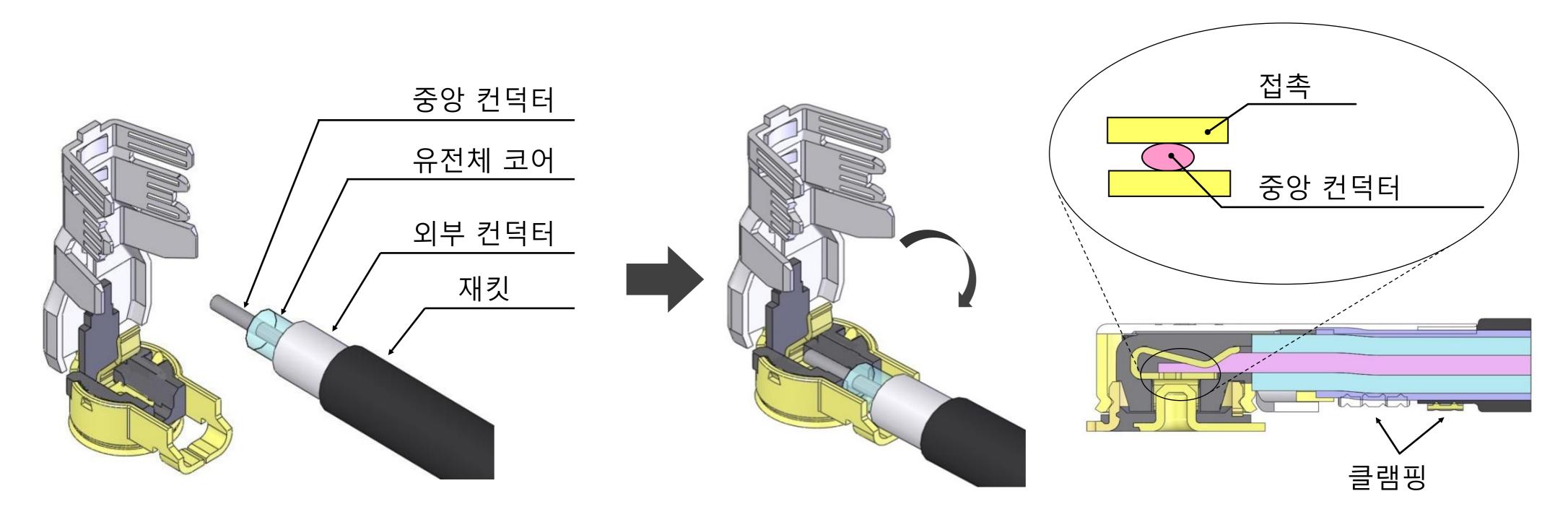




> 최소한의 제품 사이즈로, ~15 GHz에서 우수한 퍼포먼스를 실현



▶ 신뢰성 높은 무납땜 결선 기술 "i-Fit®" 테크놀러지로, 안정된 성능의 하네스 제공

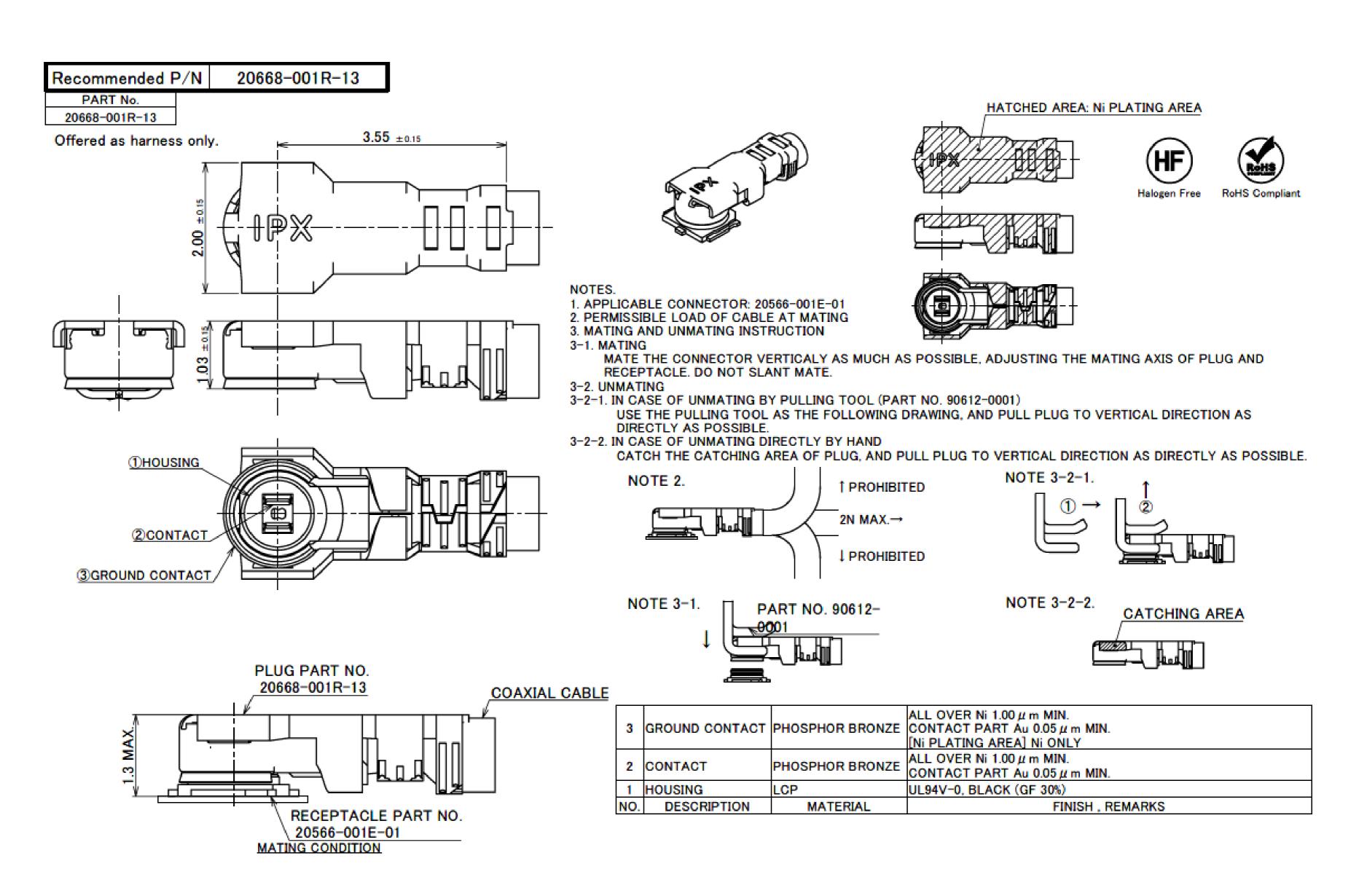


다응 케이블 : 1.13 mm (32), 0.81 mm (33)

Product name		MHF® 5	MHF® 5L	
Mating Height		1.0 mm max.	1.3 mm max.	
Coax O.D. (Center Conductor AWG)	1.13 mm (AWG#32)		•	
	0.81 mm (AWG#33)		•	
	0.81 mm (AWG#36)			
	0.64 mm (AWG#36)			
	0.48 mm (AWG#38)			
Receptacle		MHF® 5 receptacle		

Component Parts Details

MHF® 5L plug Ni top (1.13)



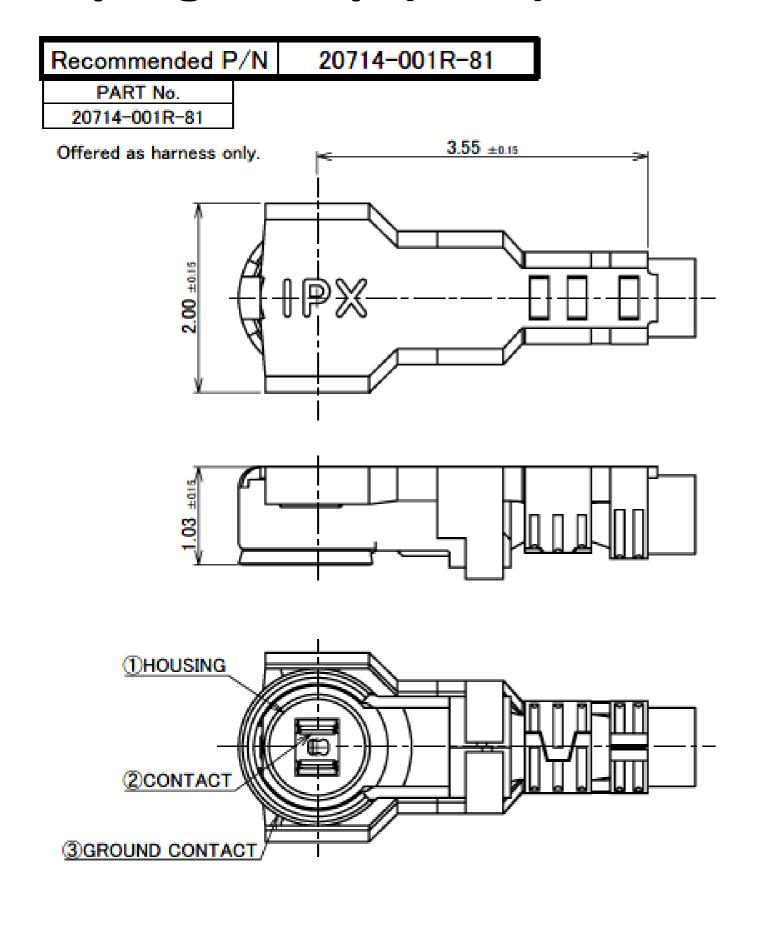


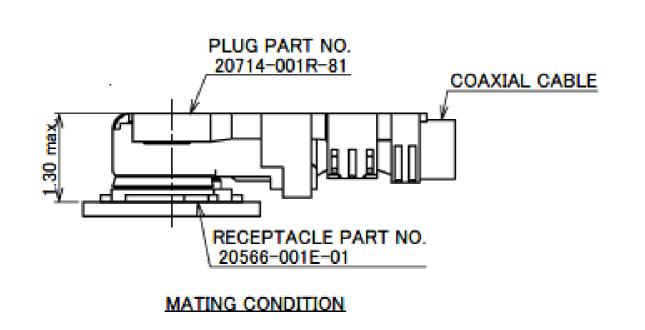
MHF® 5L plug Ni top (1.13)

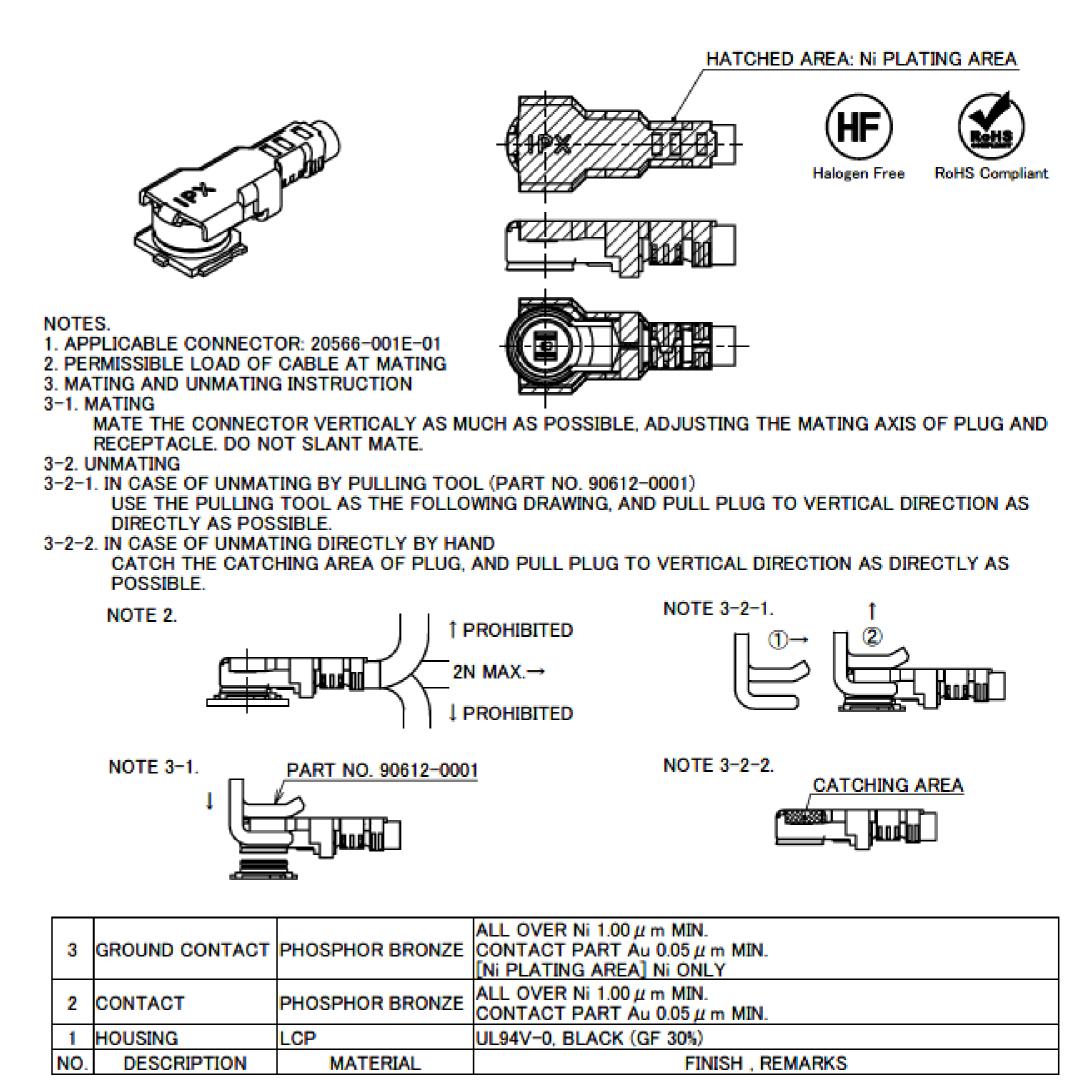
ITEMS	SPECIFICATION			
RECOMMENDED APPLICABLE CONNECTOR PART No.	20566-001E-01			
RATING VOLTAGE	60 V AC (R.M.S)			
RATING FREQUENCY	DC~15 GHz			
OPERATING TEMPERATURE	233~363K (-40°C~+90°C)			
VSWR (MATED WITH SMA ADAPTER PART No. 90543-0001)	1.30 MAX. AT 0.1~3 GHz, 1.40 MAX. AT 3~6 GHz, 1.50 MAX. AT 6~12 GHz, 1.60 MAX. AT 12~15 GHz			
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 20 mohm MAX.			
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿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.			
CRIMP STRENGTH	10 N MIN.			
PRODUCT SPECIFICATION	PRS-2192			
TEST REPORT	TR-16003			
INSTRUCTION MANUAL	HIM-16014			
APPEARANCE CRITERIA No.	QLS-A***			

Rev.4

MHF® 5L plug Ni top (0.81)









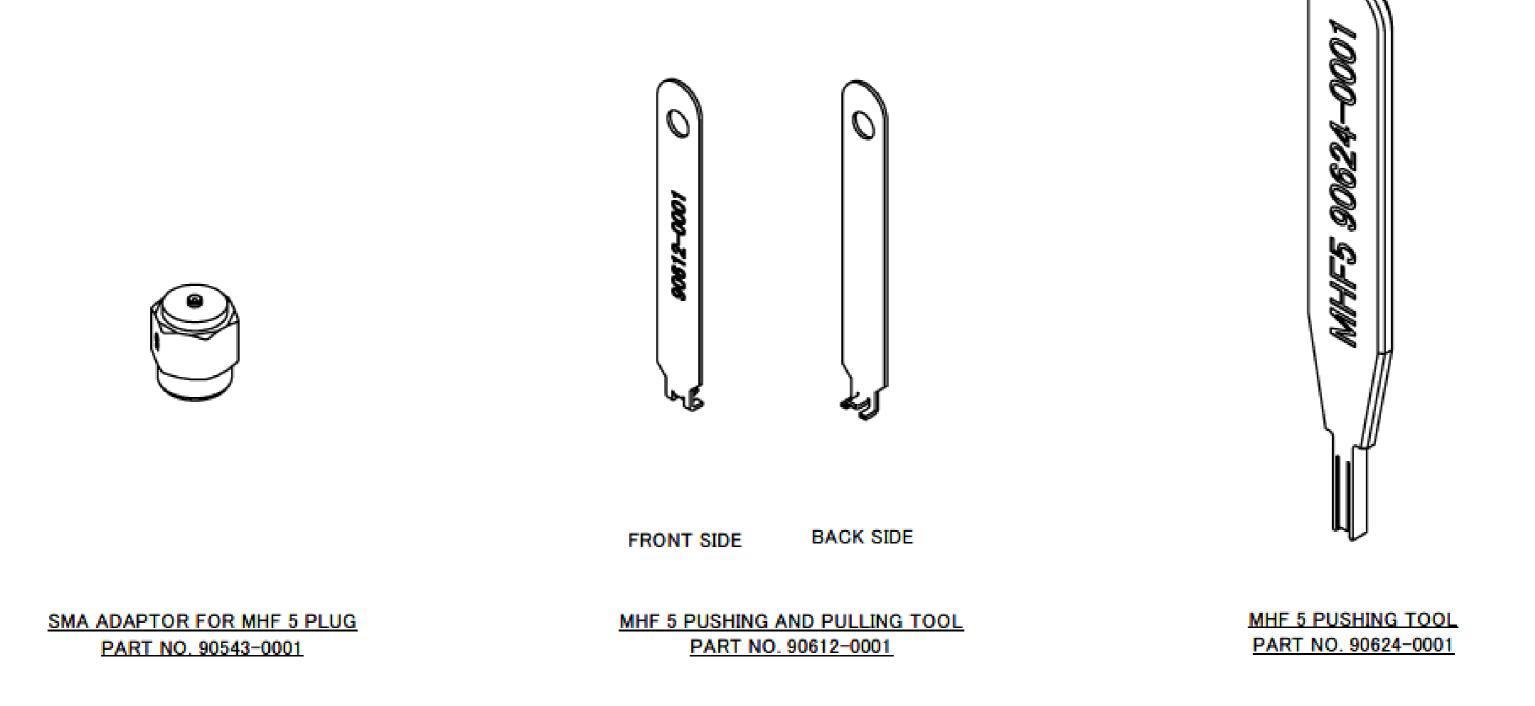


MHF® 5L plug Ni top (0.81)

ITEMS	SPECIFICATION			
RECOMMENDED APPLICABLE CONNECTOR PART No.	20566-001E-01			
RATING VOLTAGE	60 V AC (R.M.S)			
RATING FREQUENCY	DC~15 GHz			
OPERATING TEMPERATURE	233~363 K (−40°C~+90°C)			
VSWR (MATED WITH SMA ADAPTER PART No. 90543-0001)	1.30 MAX. AT 0.1~3 GHz, 1.40 MAX. AT 3~6 GHz, 1.50 MAX. AT 6~12 GHz, 1.60 MAX. AT 12~15 GHz			
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 20 mohm MAX.			
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿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.			
CRIMP STRENGTH	10 N MIN.			
PRODUCT SPECIFICATION	PRS-2236			
TEST REPORT	TR-16049			
INSTRUCTION MANUAL	HIM-16014			
APPEARANCE CRITERIA No.	QLS-A***			

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Accessories for MHF® 5L plug Ni top



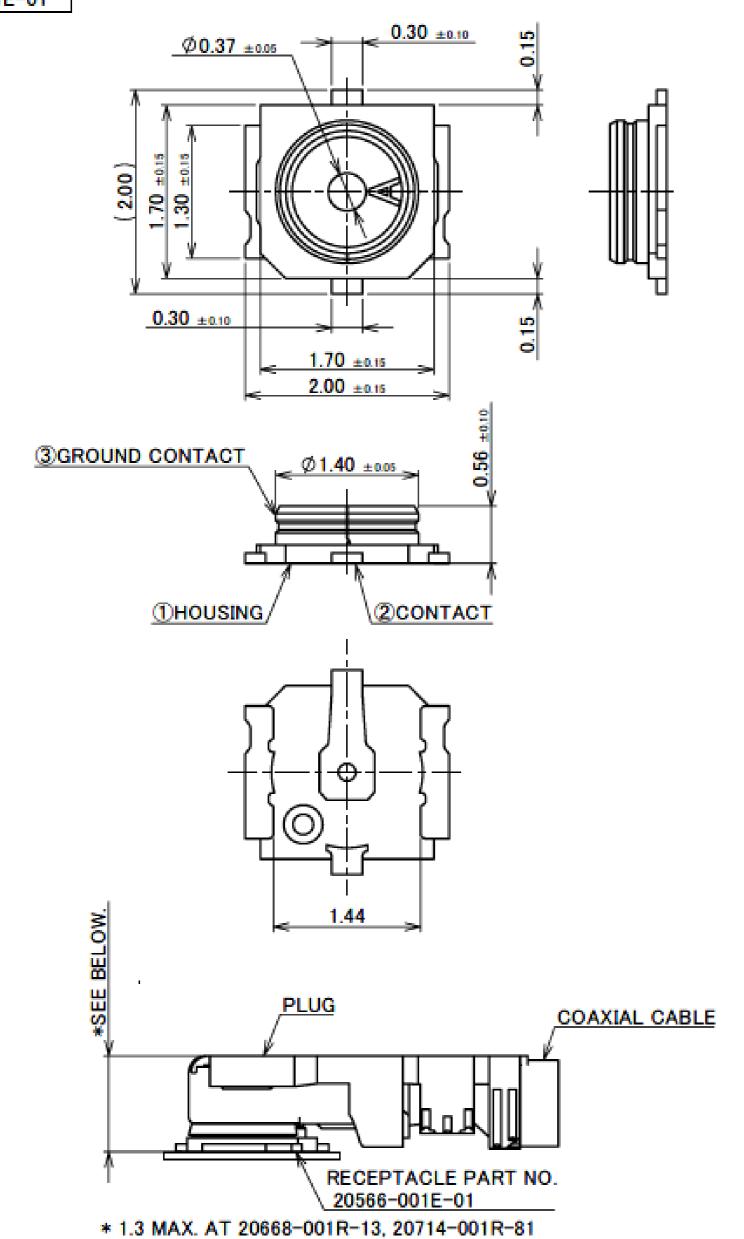


MHF® 5 Receptacle

Recommended P/N 20566-001E-01 PART NO. 20566-001E-01

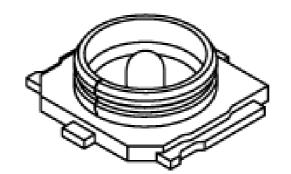






MATING CONDITION (S = 15 : 1)

* 1.0 MAX. AT 20711-001R-81



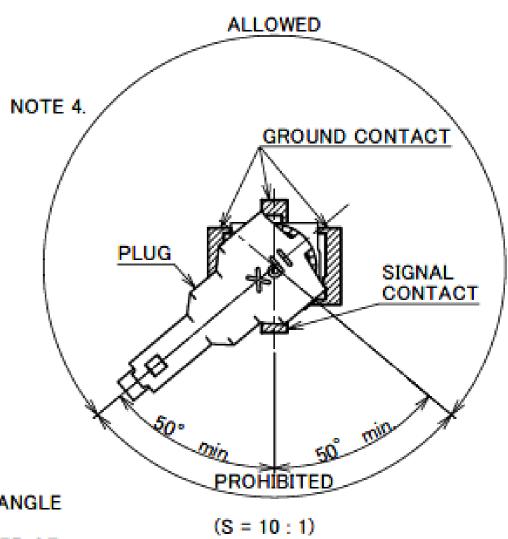
NOTES 1. APPLICABLE CONNECTOR 20567-001R-81

20615-00*R-48 20668-001R-13 20669-001R-81 20711-001R-81 20714-001R-81

2. COPLANARITY: 0.1mm MAX. 3. THIS IS "Pb-FREE" CONNECTOR. 4. PRECAUTIONS FOR CABLE POSITION [PART NO. 20567-001R-81, 20615-00*R-48]

THE PLUG SHALL NOT BE PLACED WITHIN 50 DEGREES ANGLE FROM CENTER OF THE SIGNAL CONTACT.

TILT THE PLUG AT LEAST 50 DEGREES FROM THE CENTER OF A SIGNAL CONTACT.



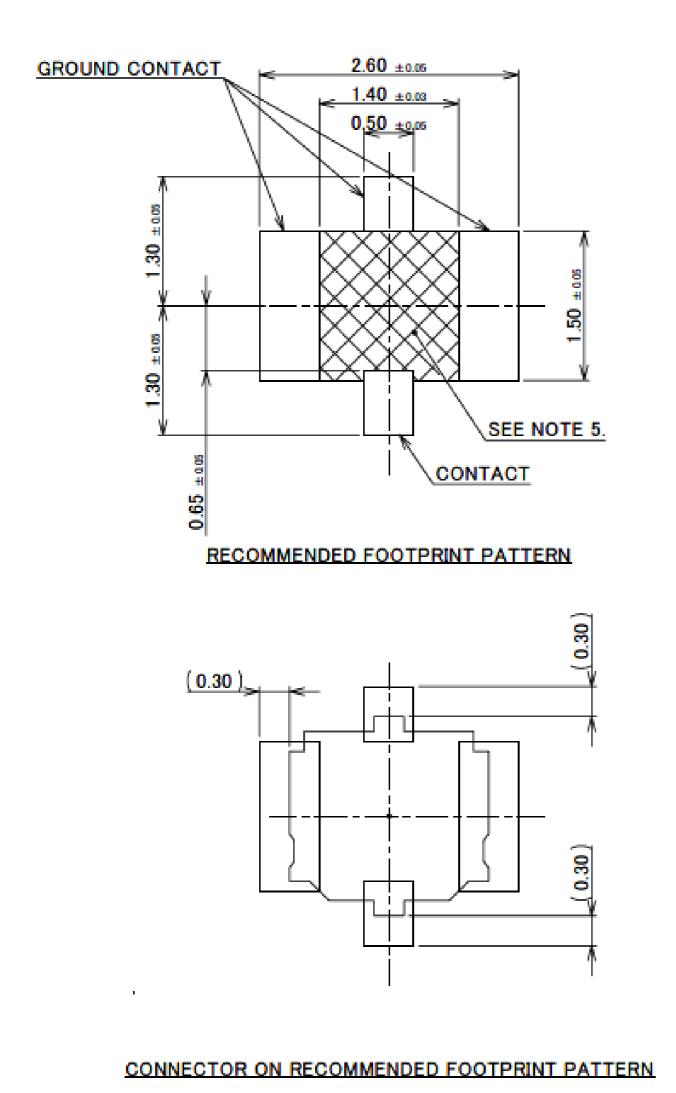
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.01 μ m MIN. UNDER PLATE Pd-Ni 0.02 μ m MIN. SOLDERING PART Au 0.01 μ m MIN. UNDER PLATE Pd-Ni 0.02 μ m MIN. UNDER PLATE Pd-Ni 0.02 μ m MIN.	
2	CONTACT	BRASS	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.1 μ m MIN. SOLDERING PART Au 0.03 μ m MIN.	
1	HOUSING	LCP	UL94V-0, BLACK	
NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS	

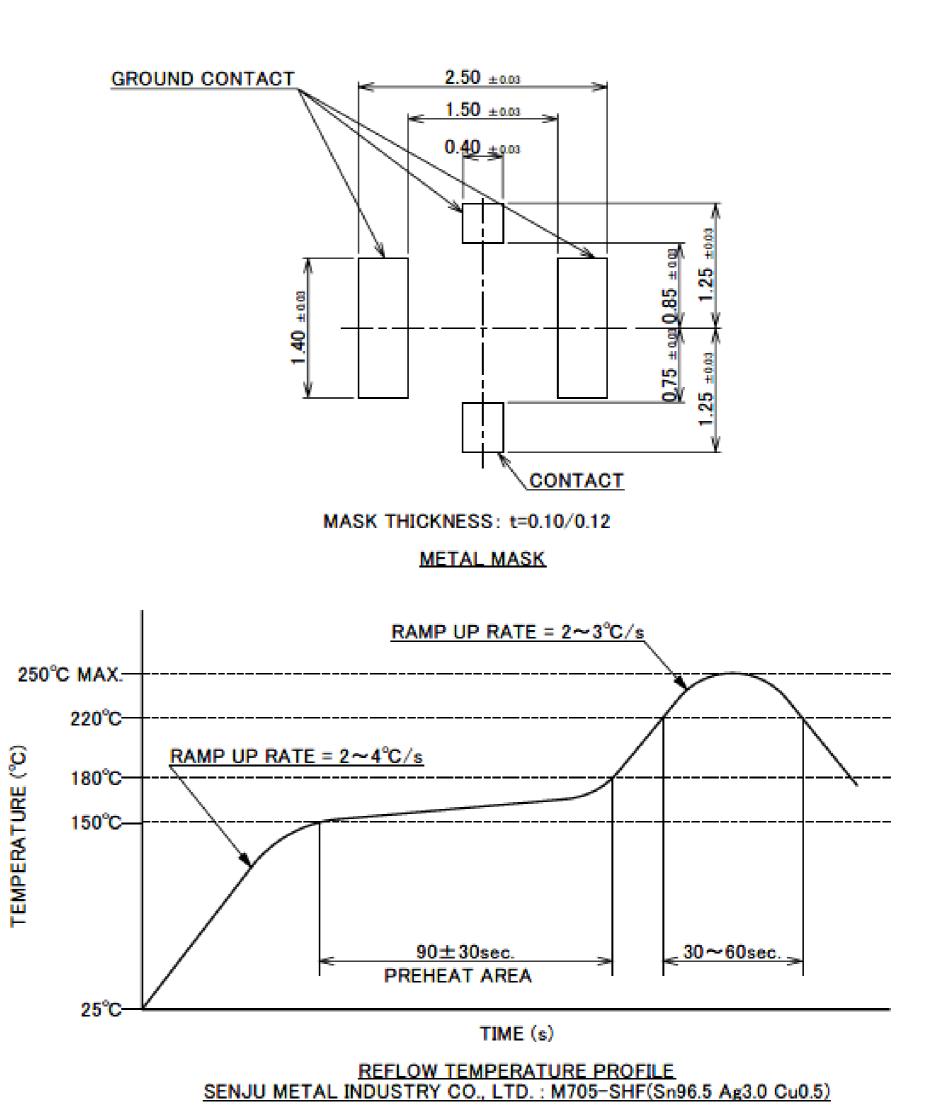
Rev.9

ITEMS	SPECIFICATION				
RECOMMENDED APPLICABLE CONNECTOR PART No.	20668-001R-13	20711-001R-81 (CABLE AWG#36 φ 0.81)	20714-001R-81	20711-001R-81 (CABLE AWG#36 φ 0.64)	20615-001R-48 (ALL Au PLATING TYPE)
RATING VOLTAGE	60 V AC (R.M.S)				
RATING FREQUENCY	DC∼15 GHz				
OPERATING TEMPERATURE	233~363 K (−40°C~+90°C)				
VSWR (MATED WITH SMA ADAPTER PART No. 90543-0001)	1.30 MAX. AT 0.1~3 GHz, 1.40 MAX. AT 3~6 GHz, 1.50 MAX. AT 6~12 GHz, 1.65 MAX. AT 12~15 GHz				
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ∠R 20 mohm MAX.				
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ⊿R 100 mohm MAX. 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				
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.	INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.	INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.	INITIAL: 4 N MIN. AFTER TEST: 2 N MIN.
PRODUCT SPECIFICATION	PRS-2192	PRS-2108	PRS-2236	PRS-2109	PRS-1939
TEST REPORT	TR-16003	TR-15062	TR-16049	TR-15063	TR-14026
PACKING STANDARD	PST-12036				
INSTRUCTION MANUAL	HIM-16014 HIM-16013 HIM-16014 HIM-16013 HIM-13003				
APPEARANCE CRITERIA No.	QLS-A***				



MHF® 5 Receptacle

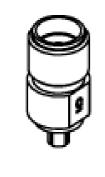




NOTES. 5. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.

Rev.9

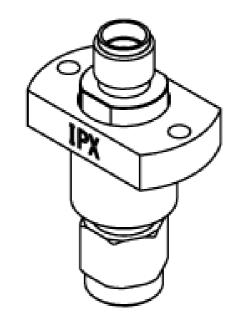
<u>Accessories for MHF® 5 Receptacle</u>



MHF 5 SMA ADAPTER PART NO. 90543-0001

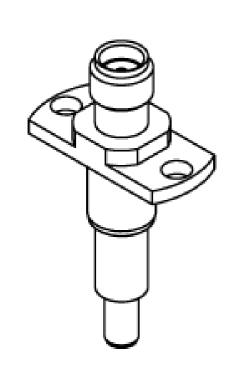


MHF 5 RECEPTACLE HIGH CYCLE ATTACHMENT
PART NO. 90690-0001

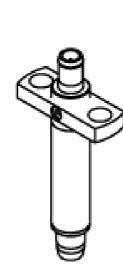


MHF SERIESE HIGH CYCLE ADAP BASE UNIT PART NO. 90684-0001

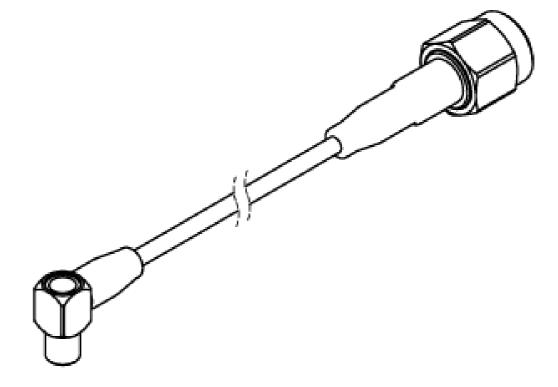
* 90690-0001 AND 90684-0001 SHOULD BE USED TOGETHER.



MHF 5 RECEPTACLE HIGH CYCLE SMA ADAPTER
PART NO. 90793-0001



MHF 5 RECEPTACLE HIGH CYCLE N45 C ADAPTER
PART NO. 90847-0001



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

* 90847-0001 AND 90577-**** SHOULD BE USED TOGETHER.





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