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			
	Characteristi	c Impedance	50 ohm			
		DC∼3 GHz	1.30 max.			
	VSWR (L=100 mm)	3∼6 GHz	1.40 max.			
		$6{\sim}9\mathrm{GHz}$	1.50 max.			
	(L-100 11111)	9∼12 GHz	1.50 max.			
		$12{\sim}15\mathrm{GHz}$	1.60 max.			

7	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	Annelia de la Ctanada vala (Defananca Onla).		

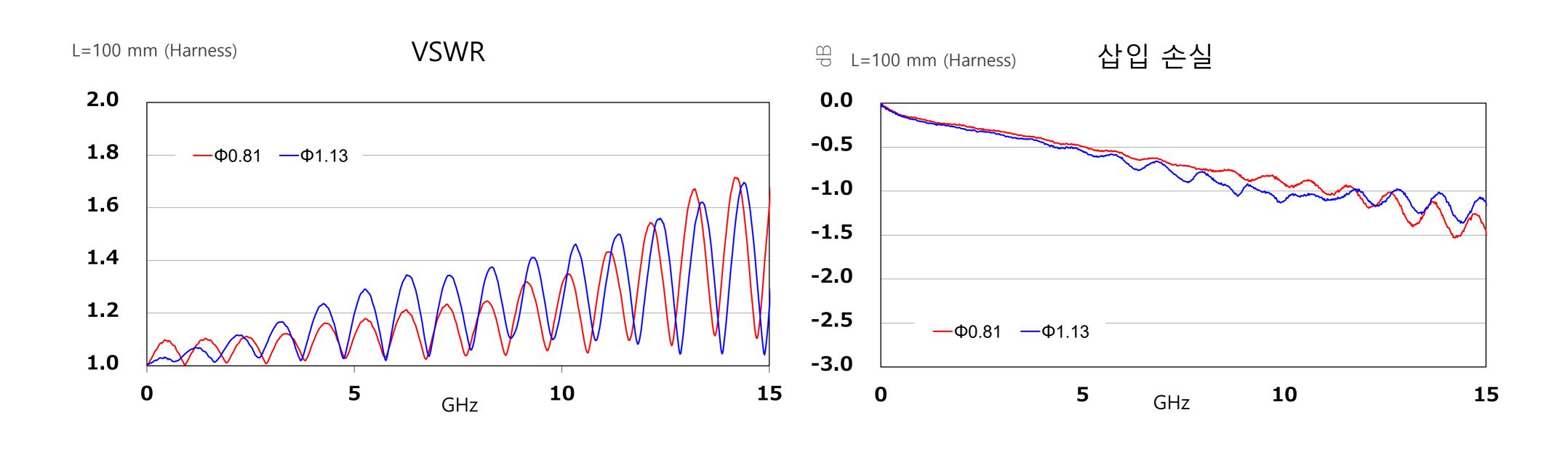
Applicable Standards (Reference Only):

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

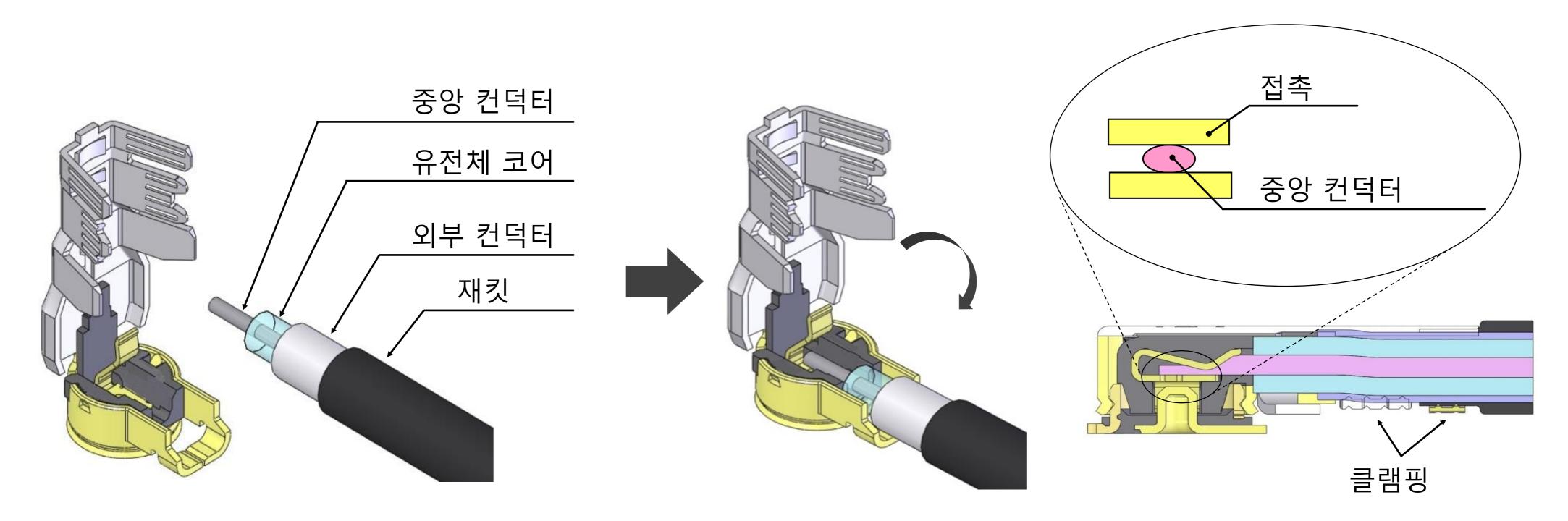




> 최소한의 제품 사이즈로, ~15 GHz에서 우수한 퍼포먼스를 실현



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

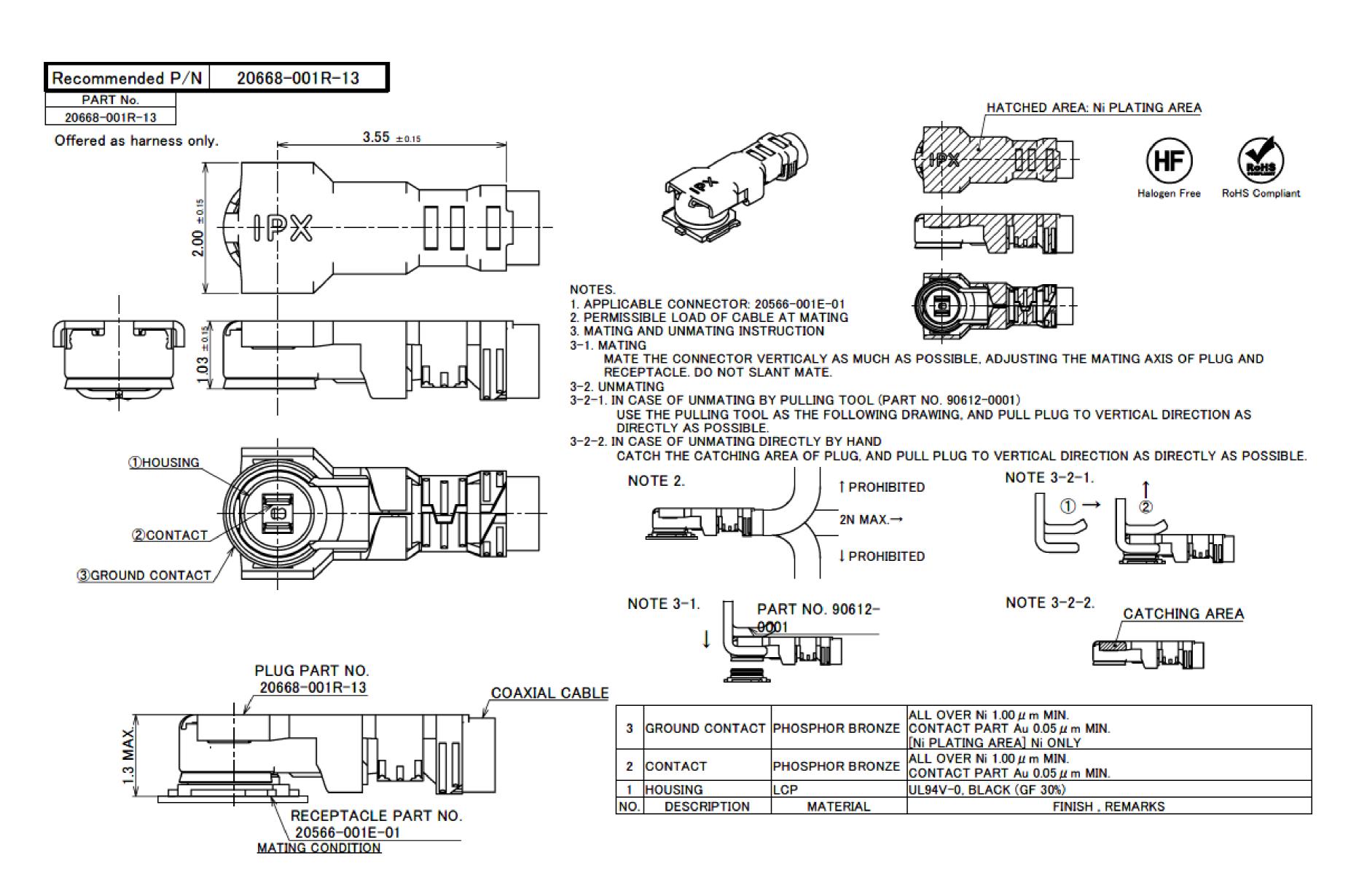


다응 케이블 : 1.13 mm (32), 0.81 mm (33)

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

Component Parts Details

MHF® 5L plug Ni top (1.13)



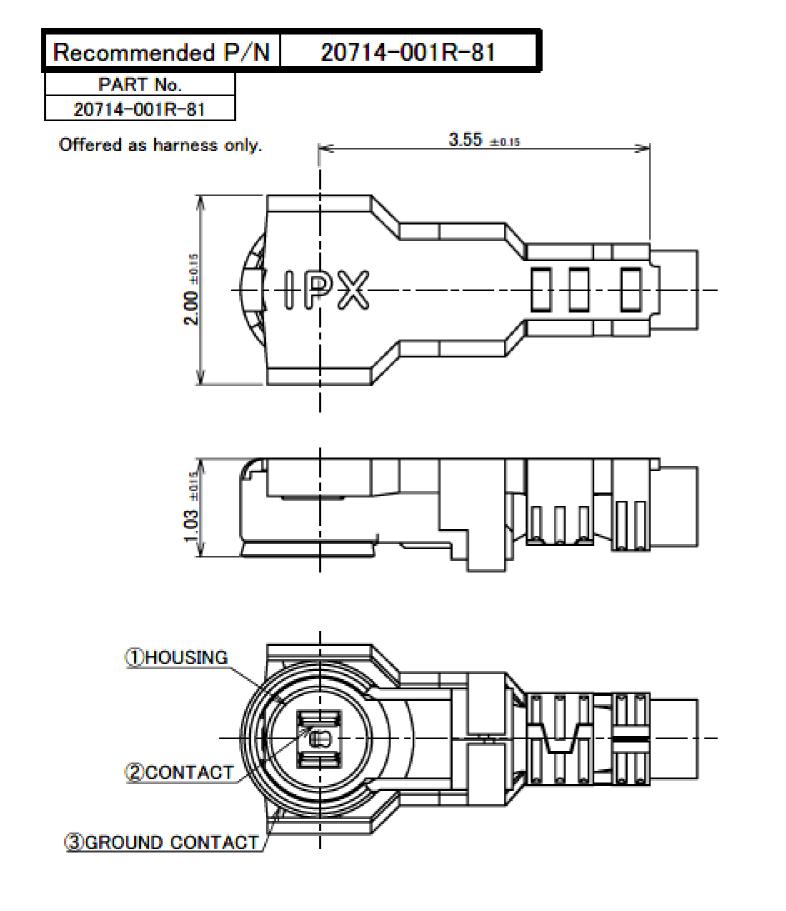


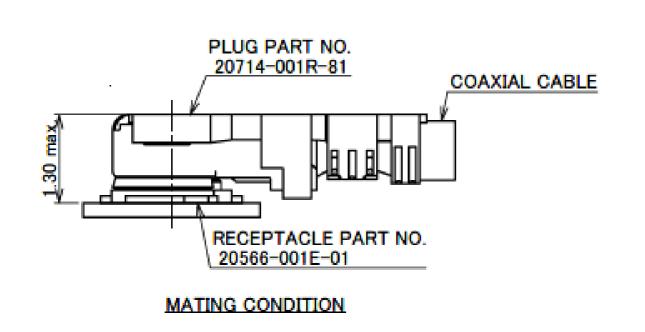
MHF® 5L plug Ni top (1.13)

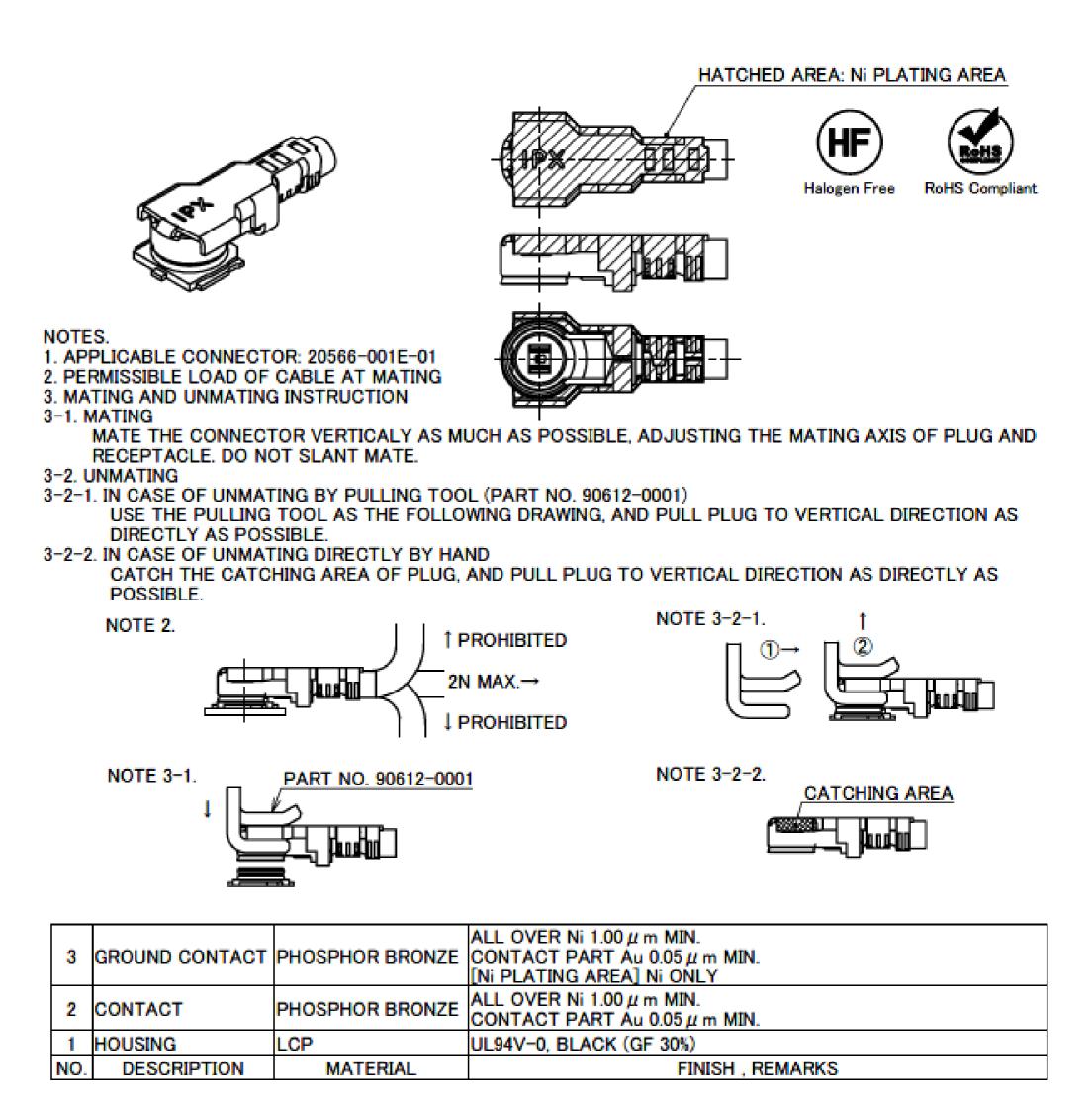
ITEMS	SPECIFICATION			
RECOMMENDED APPLICABLE CONNECTOR PART No.	20566-001E-01			
RATING VOLTAGE	60 V AC (R.M.S)			
RATING FREQUENCY	DC~15 GHz			
OPERATING TEMPERATURE	233~363K (-40°C~+90°C)			
VSWR (MATED WITH SMA ADAPTER PART No. 90543-0001)	1.30 MAX. AT 0.1~3 GHz, 1.40 MAX. AT 3~6 GHz, 1.50 MAX. AT 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)









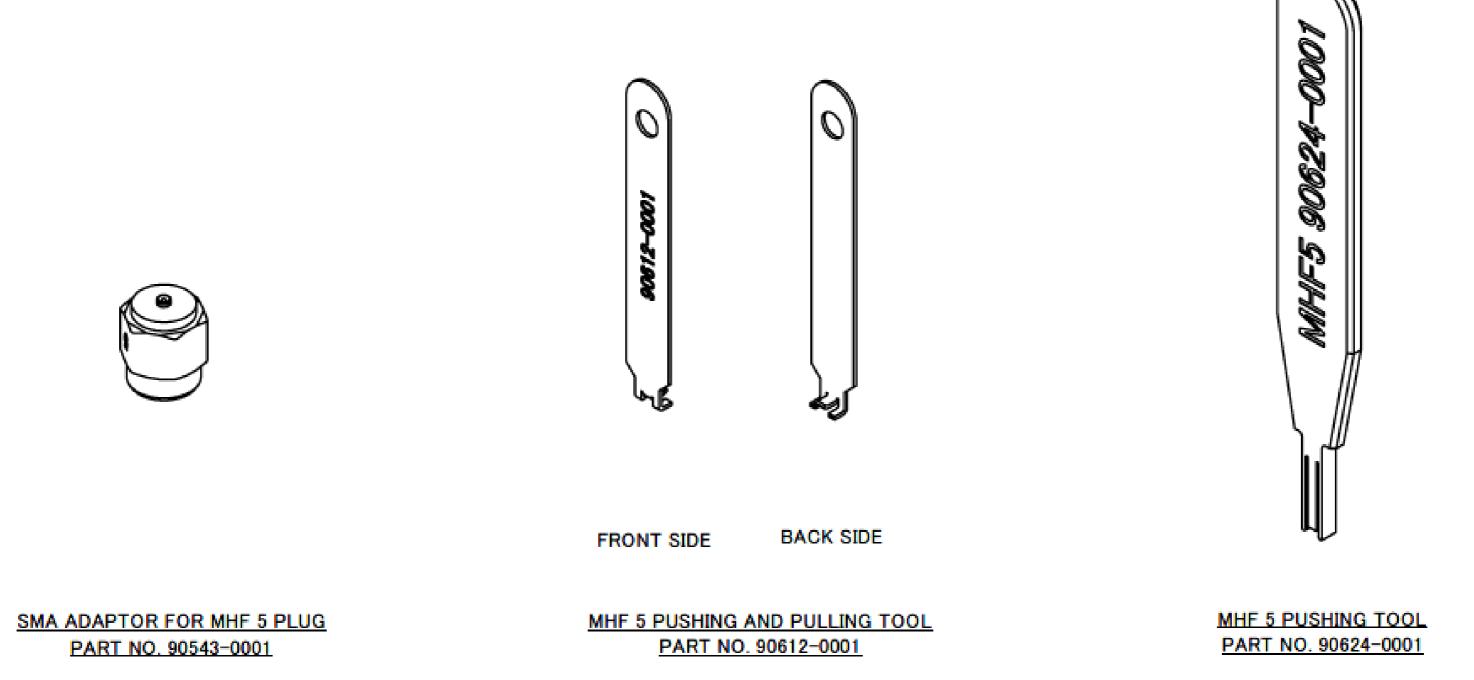


MHF® 5L plug Ni top (0.81)

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***			

Rev.4

Accessories for MHF® 5L plug Ni top





MHF® 5 Receptacle

Recommended P/N 20566-001E-01

PART NO.
20566-001E-01

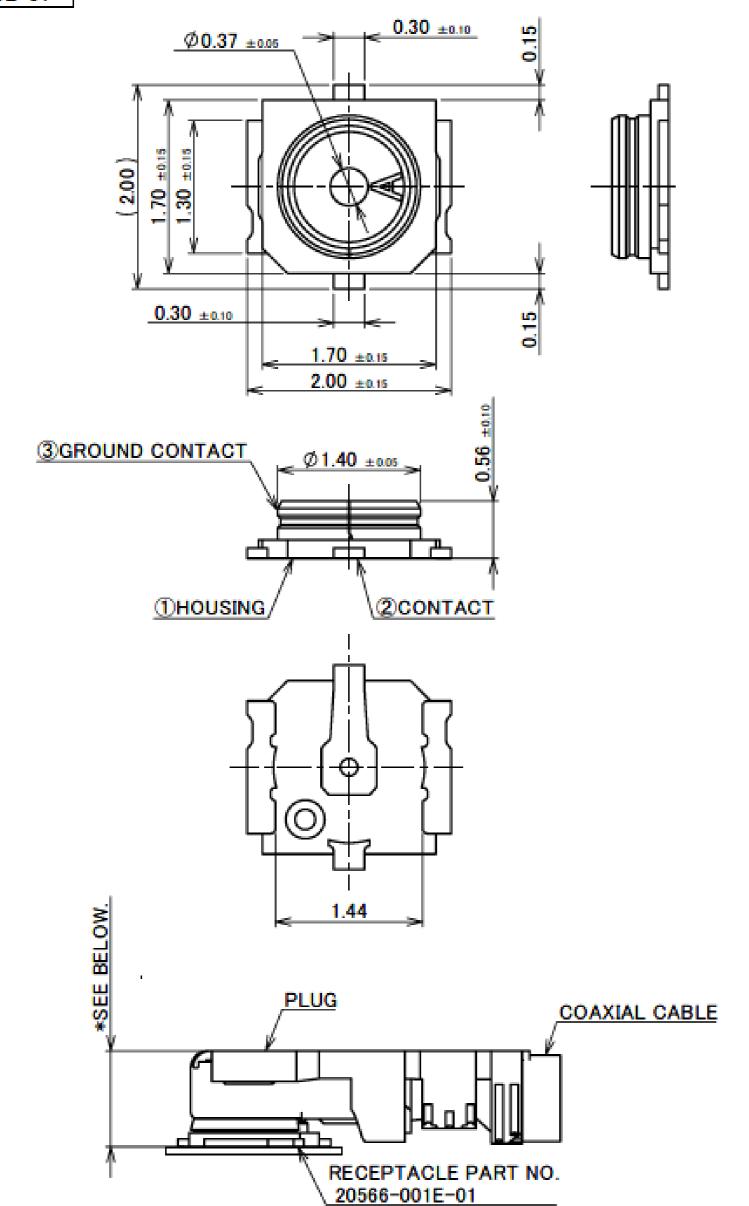


ALLOWED

GROUND CONTACT

SIGNAL CONTACT

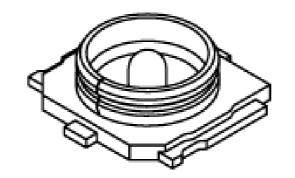




* 1.3 MAX. AT 20668-001R-13, 20714-001R-81

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.

R.
SITION
5-00*R-48]
ED WITHIN 50 DEGREES ANGLE
CONTACT.
GREES FROM THE CENTER OF

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.
UNDER PLATE Pd-Ni 0.02 μ m MIN.
UNDER PLATE Pd-Ni 0.02 μ m MIN.

ALL OVER Ni 1.00 μ m MIN.

ALL OVER Ni 1.00 μ m MIN.

ALL OVER Ni 1.00 μ m MIN.

NOTE 4

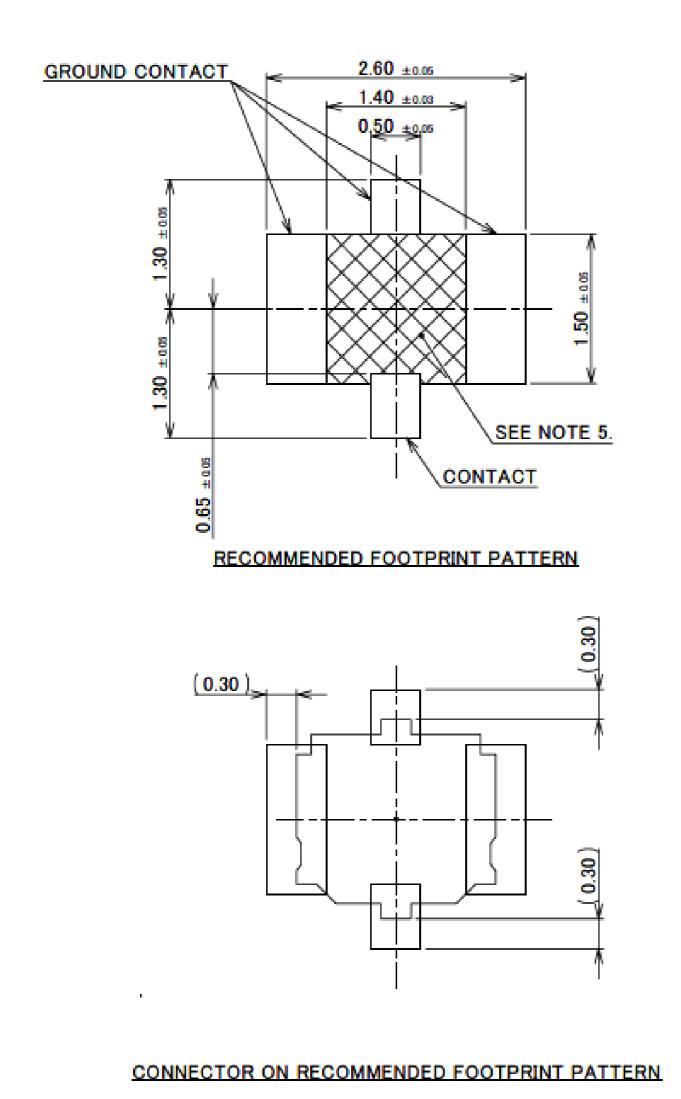
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.01 μ m MIN. UNDER PLATE Pd-Ni 0.02 μ m MIN. SOLDERING PART Au 0.01 μ m MIN. UNDER PLATE Pd-Ni 0.02 μ m MIN. UNDER PLATE Pd-Ni 0.02 μ m MIN.	
2	CONTACT	BRASS	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.1 μ m MIN. SOLDERING PART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

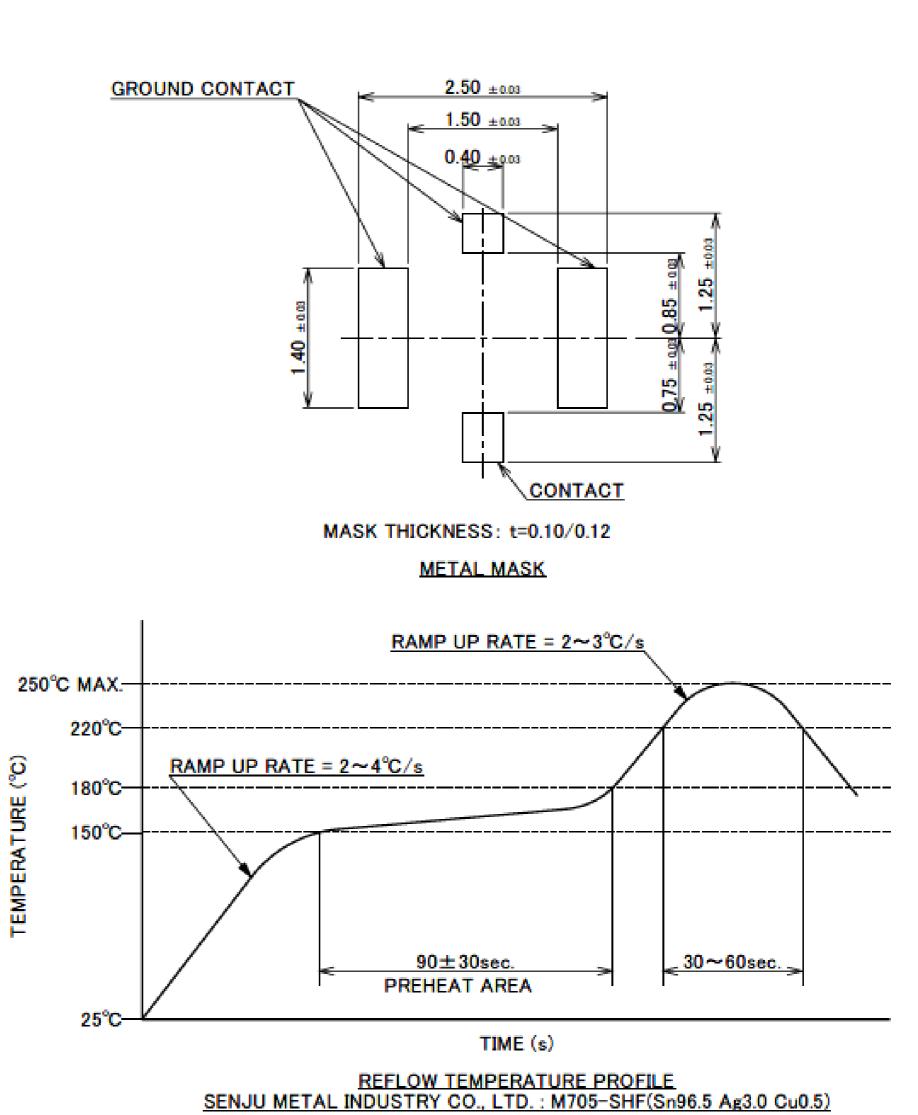
Rev.9

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

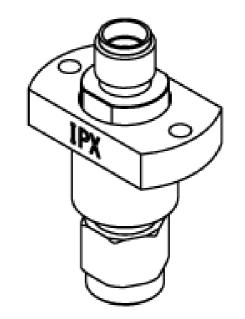
<u>Accessories for MHF® 5 Receptacle</u>



MHF 5 SMA ADAPTER PART NO. 90543-0001

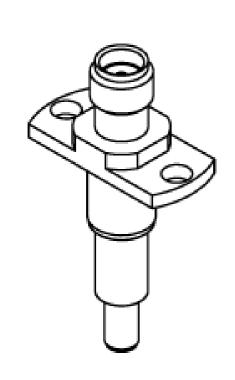


MHF 5 RECEPTACLE HIGH CYCLE ATTACHMENT
PART NO. 90690-0001

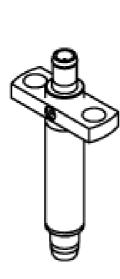


MHF SERIESE HIGH CYCLE ADAP BASE UNIT PART NO. 90684-0001

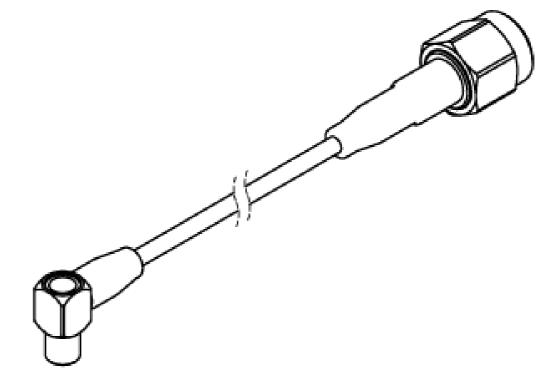
* 90690-0001 AND 90684-0001 SHOULD BE USED TOGETHER.



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



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



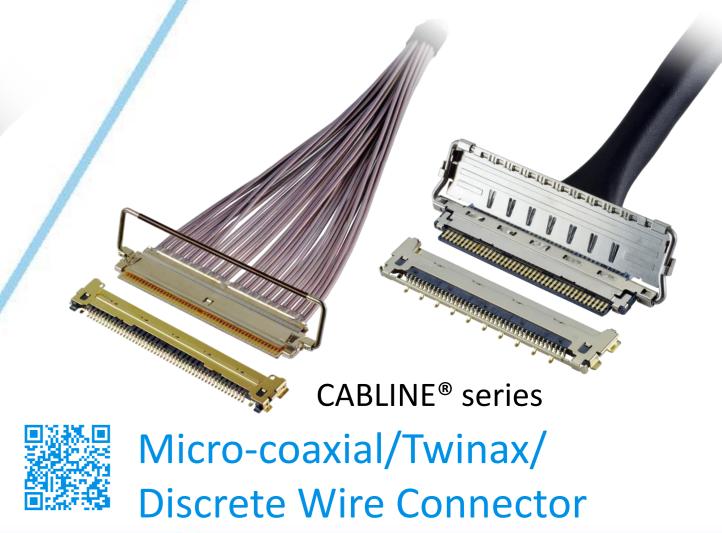
MHF SERIES N45 C TO SMA ADAPTER CABLE
PART NO. 90577-****

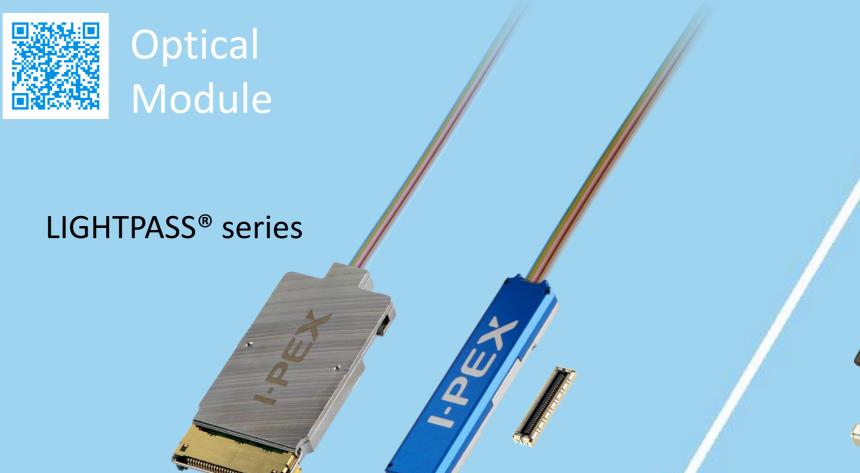
* 90847-0001 AND 90577-**** SHOULD BE USED TOGETHER.

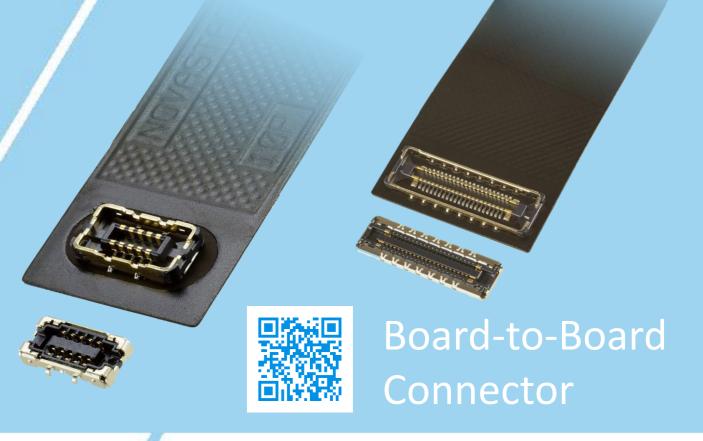


Custom Products Available









NOVASTACK® series









I-PEX, MHF, CABLINE, LIGHTPASS, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCKS and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents. Please be sure to read and understand the latest "Precautions for Use" and "Instruction Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information. www.i-pex.com



© I-PEX Inc. 2024 All rights reserved