Micro RF Coaxial Connector

MHF® III

저배 (결합높이 = 1.6 mm max.), 대응 주파수 ~6 G

Product Specifications: Mated Height (mm max.) 1.6 2.0 x 2.0 Rece. SMT Size (mm) $DC\sim6$ GHz Applicable Frequency Characteristic Impedance 50 ohm 1.3 max. DC~3 GHz $3\sim$ 6 GHz 1.5 max. **VSWR** $6\sim$ 9 GHz (L=100 mm) $9\sim$ 12 GHz

 $12\sim$ 15 GHz

Applicable Cable Size:				
O.D. 0	.81 mm / AWG 36 .64 mm / AWG 36			
O.D. 0	.64 mm / AWG 36			

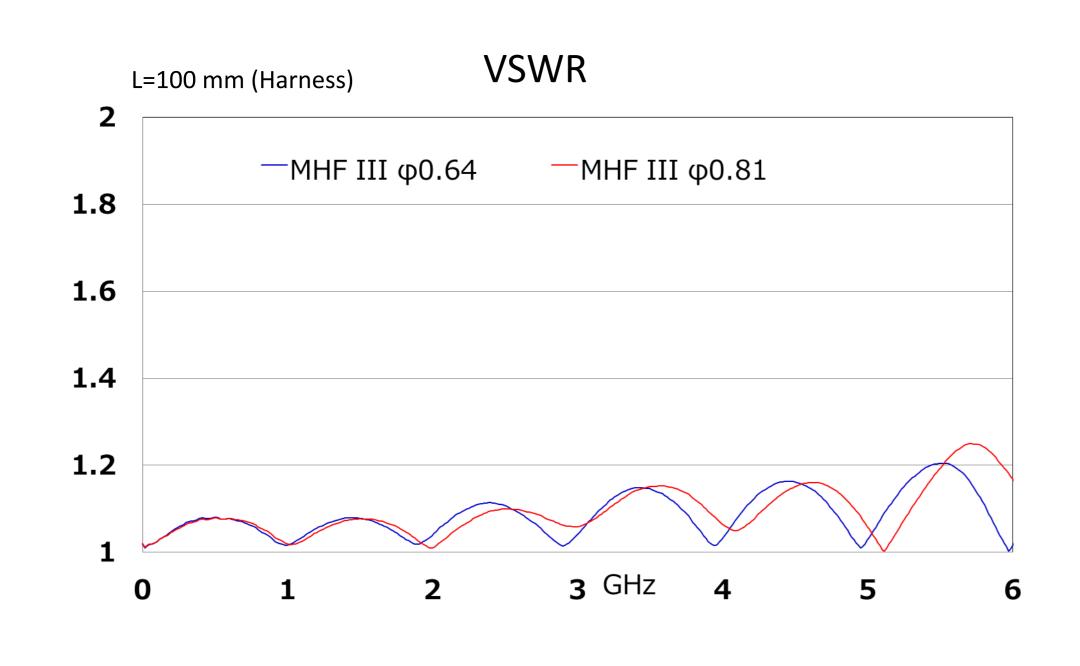
Applicable Standards (Reference Only):

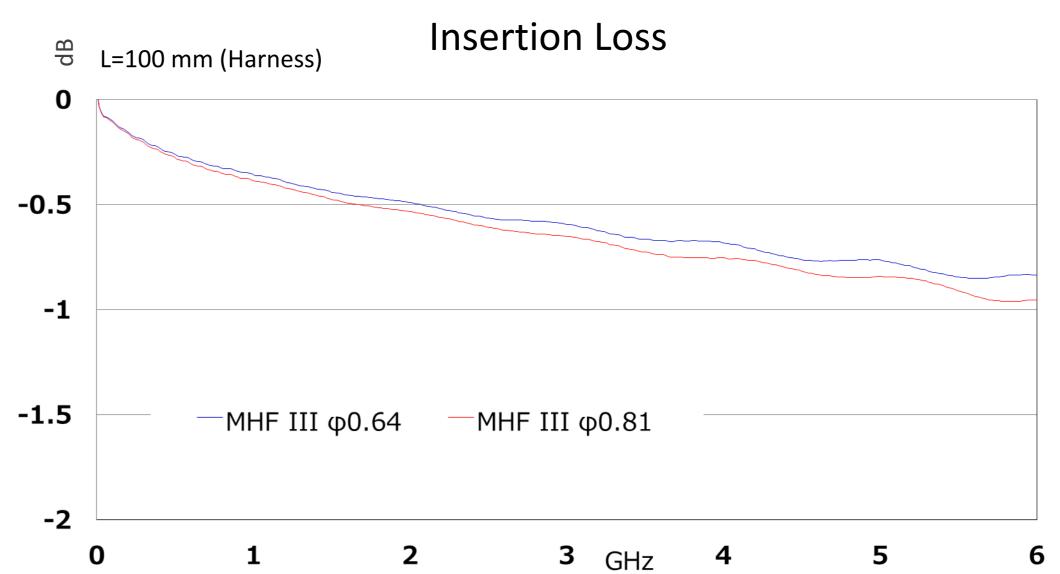
5G sub-6, Wi-Fi 6, LTE/LTE-Advanced,
LPWA, Bluetooth, GPS



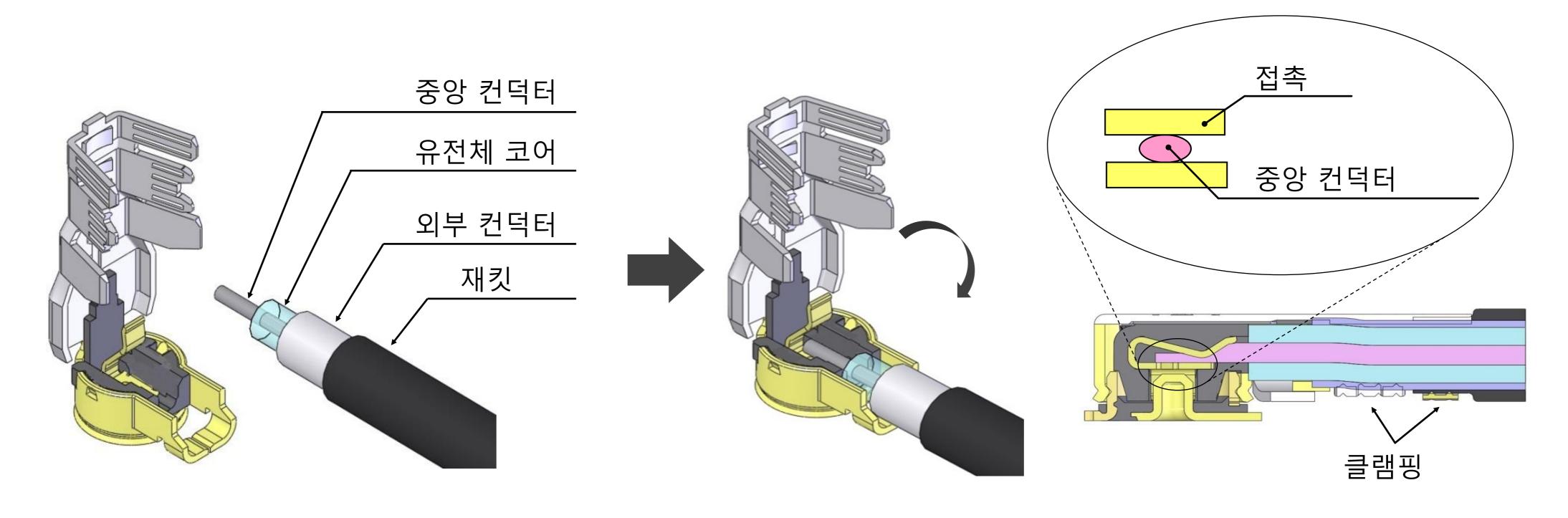


> 최소한의 제품 사이즈로, ~6GHz에서 우수한 퍼포먼스를 실현





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

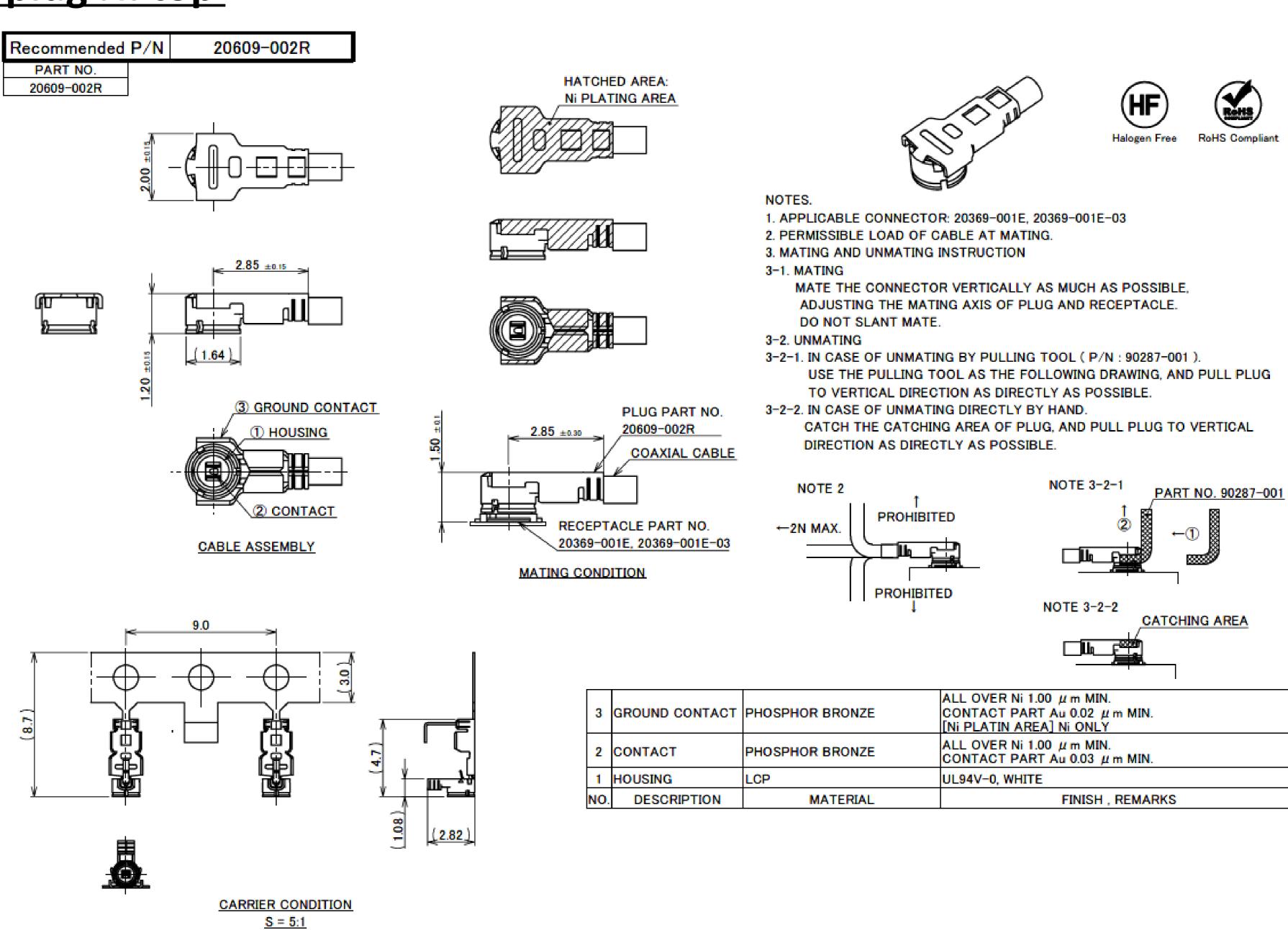


다응 케이블 : 0.81 mm (36), 0.64 mm (36)

Product name		MHF® III	MHF® 4L			MHF® I	
Mating Height		1.6 mm max.	1.7 mm max.	1.4 mm max.	1.2 mm max.	3.0 mm max.	2.5 mm max.
	2.00 mm (AWG#26)						
	1.80 mm (AWG#30)						
	1.37 mm (AWG#30)		•				
Coax O.D.	1.32 mm (AWG#32)						
(Center Conductor AWG)	1.13 mm (AWG#32)						
71770	0.95 mm (AWG#33)						
	0.81 mm (AWG#36)	•					
	0.64 mm (AWG#36)	•					
Receptacle		MHF III receptacle	MHF 4 re	ceptacle , MHF 4L r	eceptacle	MHF I re	ceptacle

Component Parts Details

MHF® III plug Ni top

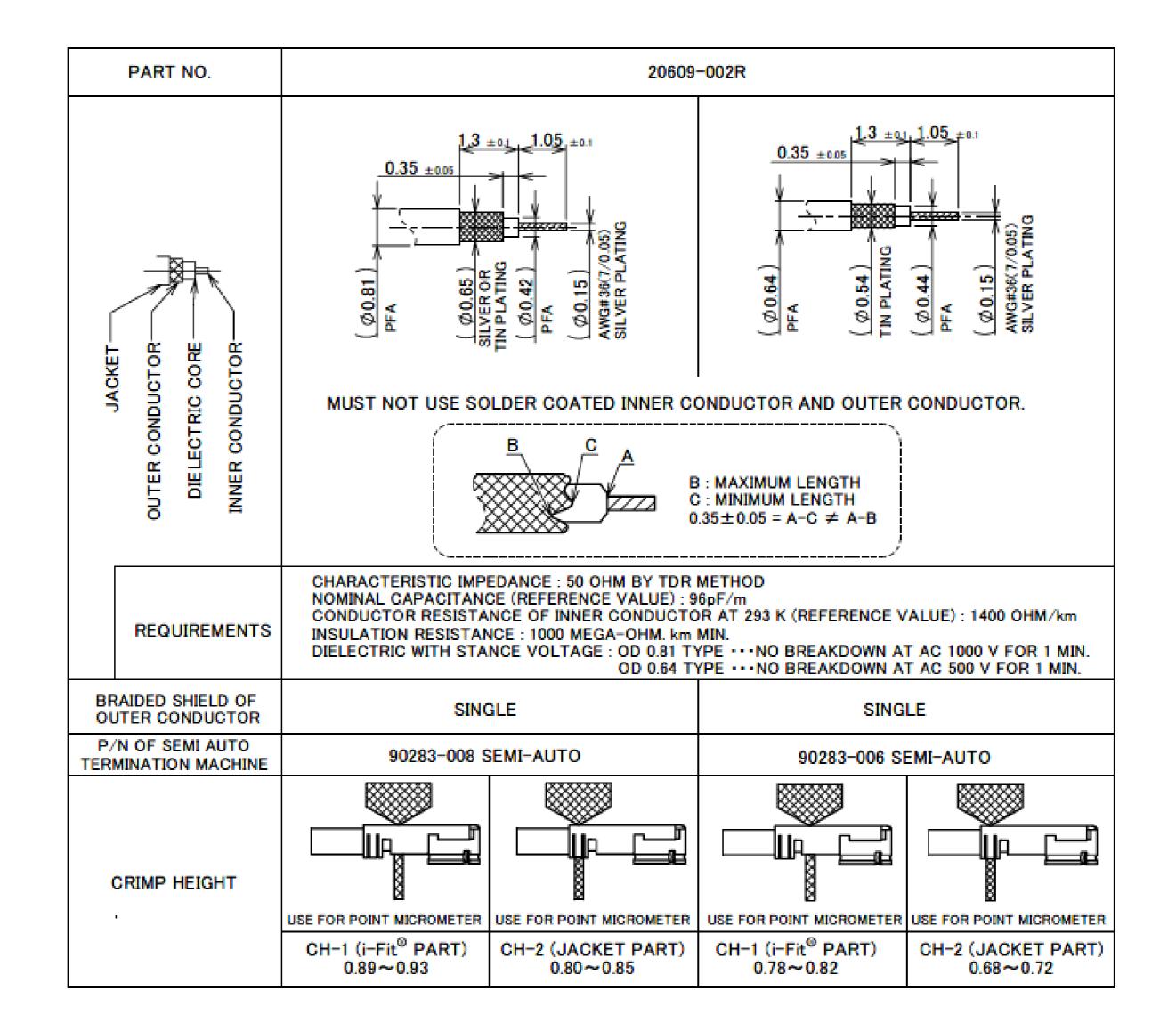




MHF® III plug Ni top

ITEMS	SPECIFICATION		
APPLICABLE CONNECTOR PART No.	20369-001E		
RATING VOLTAGE	60 V AC (R.M.S)		
RATING FREQUENCY	DC ~ 9 GHz		
OPERATING TEMPERATURE	233 ~ 363 K(-40°C ~ +90°C)		
VSWR (MATED WITH SMA ADAPTER PART No. 90285-001)	1.30 MAX. AT 0.1~3 GHz, 1.50 MAX. AT 3~6 GHz, 1.70 MAX. AT 6~9 GHz		
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ∠R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: ✓R100 mohm MAX.		
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.		
DIELECTRIC WITHSTANDING VOLTAGE	AC 200 V 1 MINUTE		
DURABILITY	30 CYCLES		
TOTAL UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 4 N MIN. / AFTER: 2 N MIN.		
CRIMP STRENGTH	7 N MIN.		
PRODUCT SPECIFICATION	PRS-2107		
TEST REPORT	TR-15061		
PACKING STANDARD	300-340		
INSTRUCTION MANUAL	HIM-07002		
APPEARANCE CRITERIA No.	QLS-A***		

Rev.2



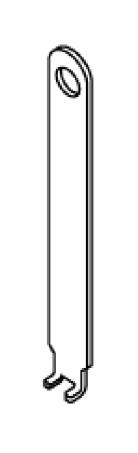


Accessories for MHF® III plug Ni top









BACK SIDE

FRONT SIDE

MHF III SMA ADAPTOR PART NO. 90285-001

MHF III INSPECTION CONNECTOR PART NO. 90286-001

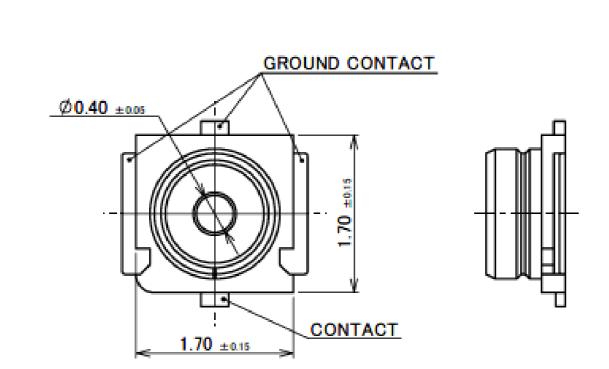
MHF III PULLING TOOL

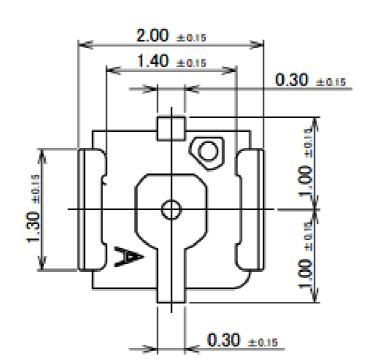
PART NO. 90287-001

Rev.2

MHF® III Receptacle

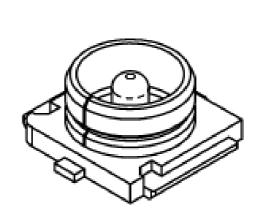
Recommended P/N		20369-001E-03		
PART NO.	PACKING REEL		P	ACKING QUANTITY
20369-001E	CORRUGATED PAPER REEL			E 000 /DEEL
20260-0015-02		DI ACTIC DEEL		5,000/REEL

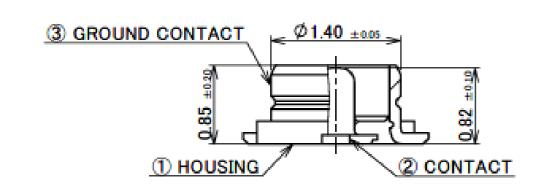


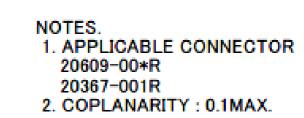


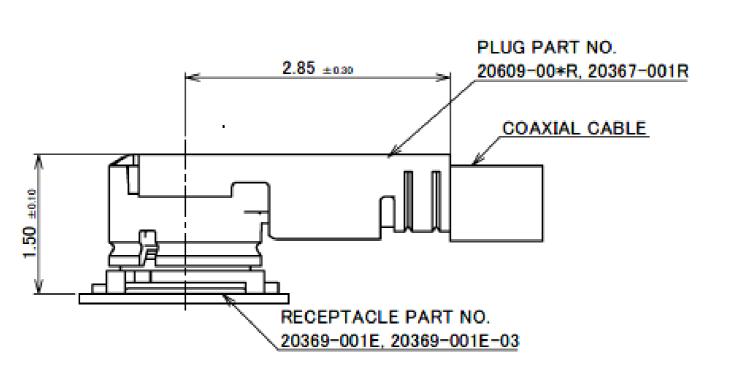












3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.03 μ m MIN. SOLDERING PART Au 0.03 μ m MIN.
2	CONTACT A	BRASS	ALL OVER Ni 1.00 μ m MIN. CONTACT PART Au 0.1 μ m MIN. SOLDERING PART Au 0.1 μ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO	. DESCRIPTION	MATERIAL	FINISH , REMARKS

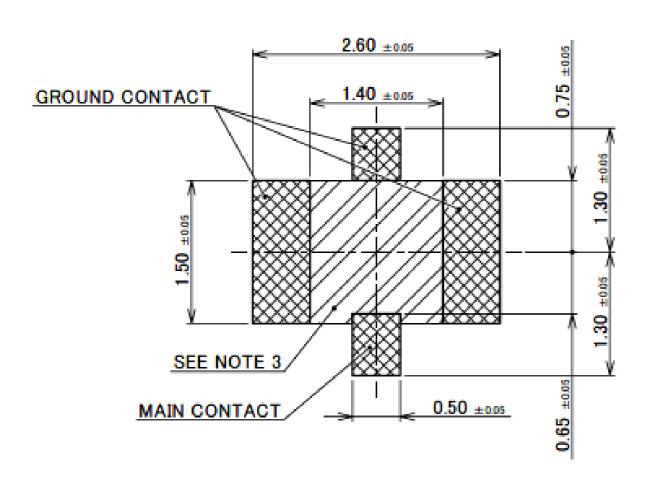
Rev.13 MATING CONDITION



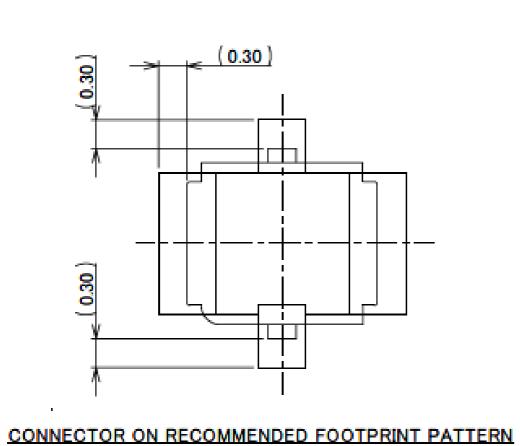
MHF® III Receptacle

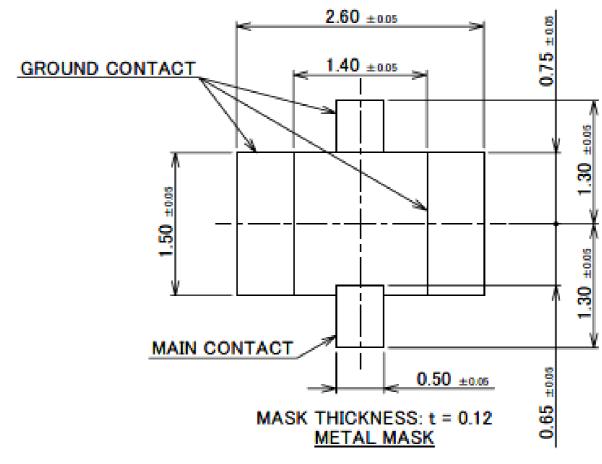
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20609-002R
RATING VOLTAGE	60 V AC (R.M.S)
RATING FREQUENCY	DC ~ 9 GHz
OPERATING TEMPERATURE	233 ~ 363 K(-40°C ~ +90°C)
VSWR (MATED WITH SMA ADAPTER PART No. 90285-002)	1.30 MAX. AT 0.1~ 3GHz, 1.40 MAX. AT 3~6GHz, 1.60 MAX. AT 6~9GHz
MAIN CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : ⊿R 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL : 20 mohm MAX. / AFTER TEST : ⊿R100 mohm MAX.
INSULATION RESISTANCE	INITIAL: 500 Mohm MIN. / AFTER TEST: 100 Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC 200 V 1 MINUTE
DURABILITY	30 CYCLES
TOTAL UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 4 N MIN. / AFTER: 2 N MIN.
PRODUCT SPECIFICATION	PRS-2107
TEST REPORT	TR-15061
PACKING STANDARD	300-339
INSTRUCTION MANUAL	HIM-07002
APPEARANCE CRITERIA No.	QLS-A***

Rev.13

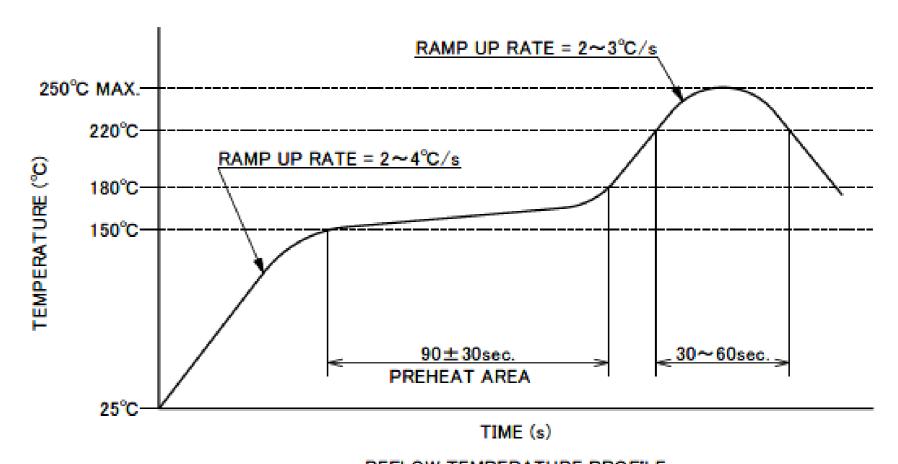


RECOMMENDED FOOTPRINT PATTERN





RECOMMENDED FOOTPRINT PATTERN



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

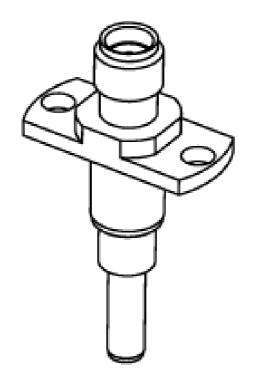
NOTES
3. NO GROUND, SIGNAL, AND RESIST IN THIS AREA.



Accessories for MHF® III Receptacle



MHF III SMA ADAPTER PART NO. 90285-002



MHF III RECEPTACLE HIGH CYCLE SMA ADAPTER
PART NO. 90491-001

Rev.13





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