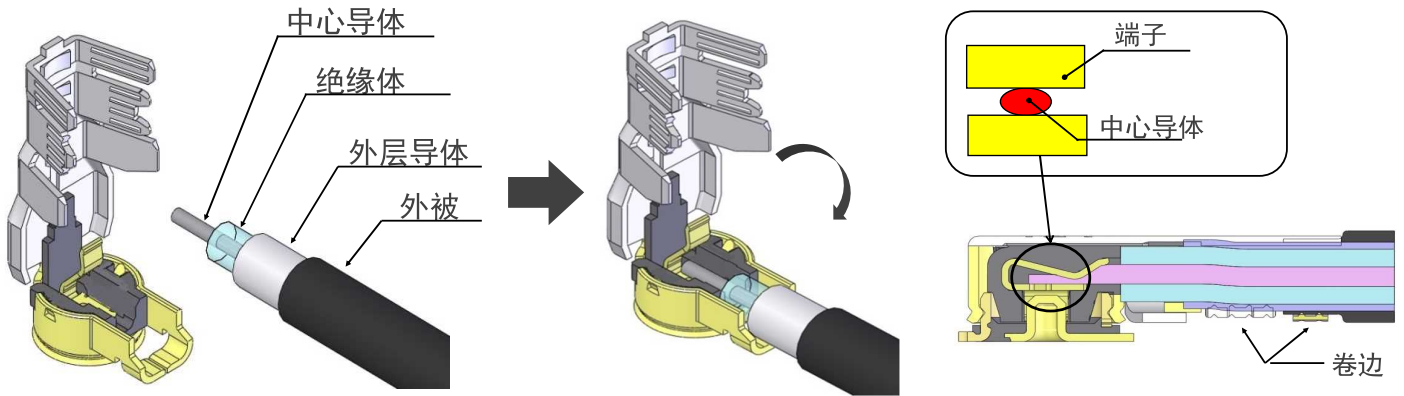




- ✓ 使用 “i-Fit[®]” 技术的无需焊接极细同轴线连结
- ✓ 对应 15 GHz 的高性能小型连接器
- ✓ MHF[®] 5L公座适用的极细同轴线外径 (AWG) : 1.13 mm (32), 0.81 mm (33)

Maximum height (mm)	1.3	
Outside dimension of receptacle(mm)	2.0 x 2.0	
Applicable wire gauge	O.D. 1.13 mm / AWG 32 O.D. 0.81 mm / AWG 33	
Frequency	DC~15 GHz	
VSWR (L=100 mm)	DC~3 GHz	1.3 max.
	3GHz~6 GHz	1.4 max.
	6GHz~9 GHz	1.5 max.
	9GHz~12 GHz	1.5 max.
	12GHz~15 GHz	1.6 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	

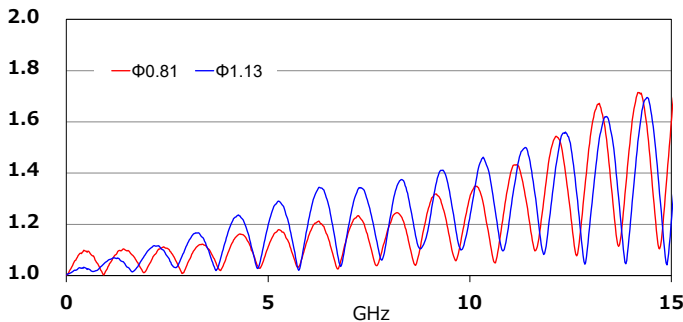
使用 “i-Fit” 技术的无需焊接极细同轴线连结



对应 15 GHz的高性能小型连接器

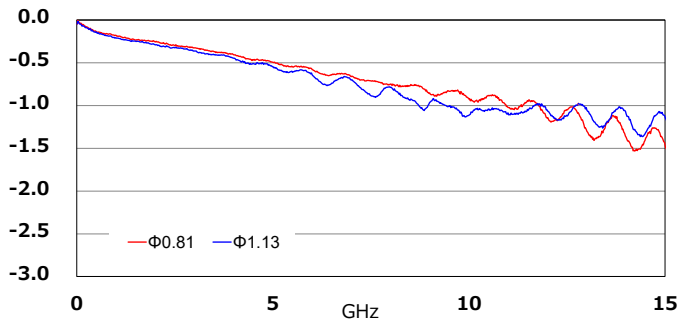
L=100 mm (线束)

电压驻波比



号 L=100 mm (线束)

插入损失



MHF 5L公座适用的极细同轴线外径 (AWG) : 1.13 mm (32), 0.81 mm (33)

同轴线外径 (中心导体 AWG)	组合高度 最大 1.3 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 5 母座

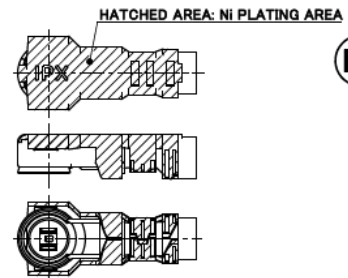
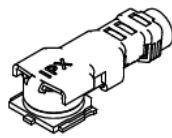
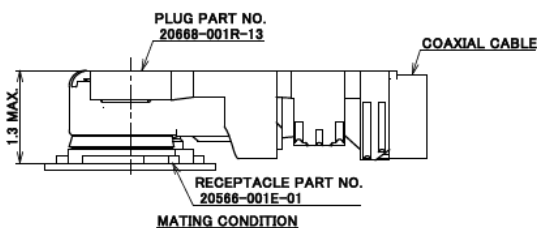
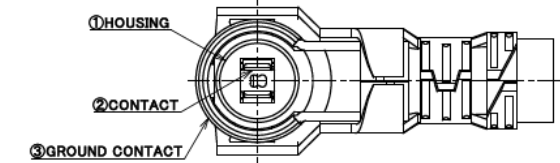
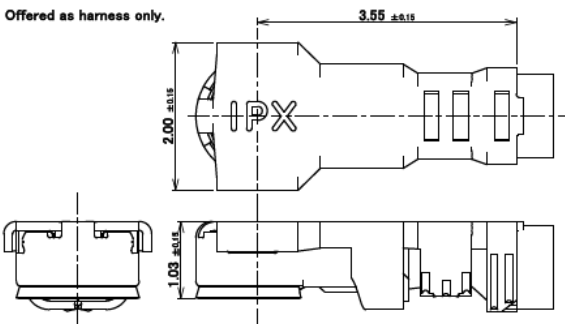
MHF[®] 5L

Component Parts Detail

MHF[®] 5L plug Ni top (1.13)

Recommended P/N	20668-001R-13
PART No.	20668-001R-13

Offered as harness only.



NOTES.

1. APPLICABLE CONNECTOR: 20566-001E-01
2. PERMISSIBLE LOAD OF CABLE AT MATING
3. MATING AND UNMATING INSTRUCTION

3-1. MATING

MATE THE CONNECTOR VERTICALLY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. DO NOT SLANT MATE.

3-2. UNMATING

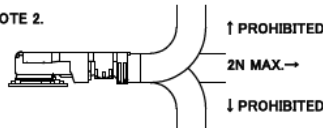
3-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90612-0001)

USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

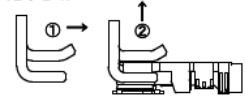
3-2-2. IN CASE OF UNMATING DIRECTLY BY HAND

CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

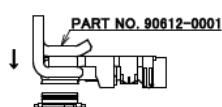
NOTE 2.



NOTE 3-2-1.



NOTE 3-1.



NOTE 3-2-2.



NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN. [Ni PLATING AREA] Ni ONLY
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK (GF 30%)

MHF® 5L plug Ni top (1.13)

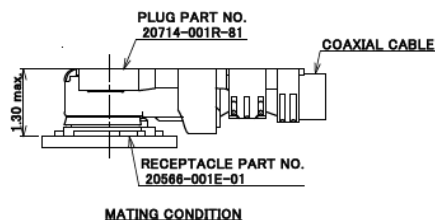
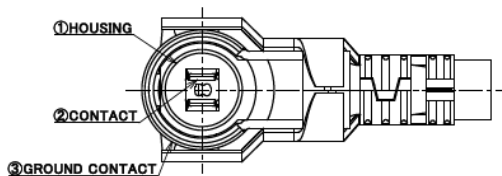
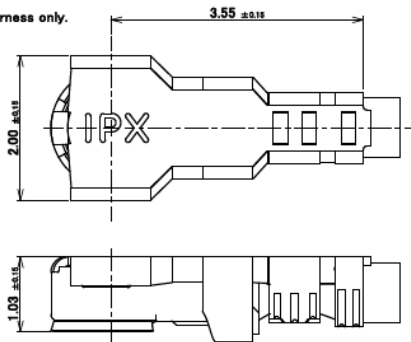
ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR PART No.	20566-001E-01
RATING VOLTAGE	60 V AC (R.M.S)
RATING FREQUENCY	DC~12 GHz
OPERATING TEMPERATURE	233~383K (-40°C~+90°C)
VSWR	1.3 MAX. AT DC~3 GHz, 1.4 MAX. AT 3~6 GHz, 1.5 MAX. AT 6~12 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: Δ R 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: Δ 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.3

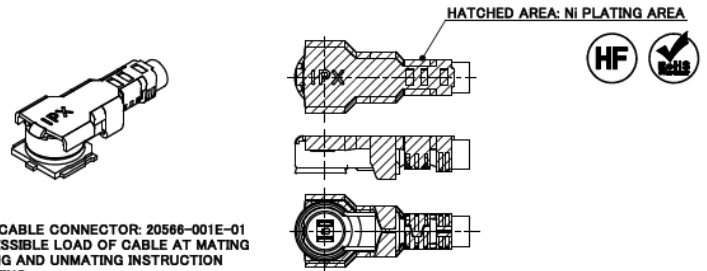
MHF® 5L plug Ni top (0.81)

Recommended P/N	20714-001R-81
PART No.	20714-001R-81

Offered as harness only.



MATING CONDITION



NOTES.

1. APPLICABLE CONNECTOR: 20566-001E-01
2. PERMISSIBLE LOAD OF CABLE AT MATING
3. MATING AND UNMATING INSTRUCTION

3-1. MATING

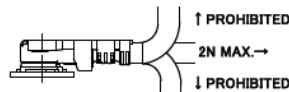
MATE THE CONNECTOR VERTICALLY AS MUCH AS POSSIBLE, ADJUSTING THE MATING AXIS OF PLUG AND RECEPTACLE. DO NOT SLANT MATE.

3-2. UNMATING

3-2-1. IN CASE OF UNMATING BY PULLING TOOL (PART NO. 90612-0001) USE THE PULLING TOOL AS THE FOLLOWING DRAWING, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

3-2-2. IN CASE OF UNMATING DIRECTLY BY HAND CATCH THE CATCHING AREA OF PLUG, AND PULL PLUG TO VERTICAL DIRECTION AS DIRECTLY AS POSSIBLE.

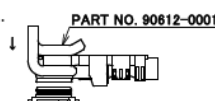
NOTE 2.



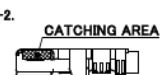
NOTE 3-2-1.



NOTE 3-1.



NOTE 3-2-2.



NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
3	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN. [Ni PLATING AREA] Ni ONLY
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 μm MIN. CONTACT PART Au 0.05 μm MIN.
1	HOUSING	LCP	UL94V-0, BLACK (GF 30%)

Rev.3

MHF[®] 5L plug Ni top (0.81)

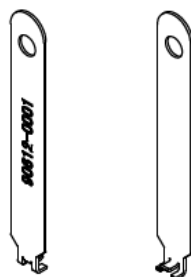
ITEMS	SPECIFICATION
RECOMMENDED APPLICABLE CONNECTOR PART No.	20566-001E-01
RATING VOLTAGE	60 V AC (R.M.S)
RATING FREQUENCY	DC~12 GHz
OPERATING TEMPERATURE	233~363 K (-40°C~+90°C)
VSWR	1.3 MAX. AT DC~3 GHz, 1.4 MAX. AT 3~6 GHz, 1.5 MAX. AT 6~12 GHz
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: \angle R 20 mohm MAX.
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: \angle 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.3

Accessories for MHF[®] 5L plug Ni top



SMA ADAPTOR FOR MHF 5 PLUG
PART NO. 90543-0001



FRONT SIDE BACK SIDE

MHF 5 PUSHING AND PULLING TOOL
PART NO. 90612-0001



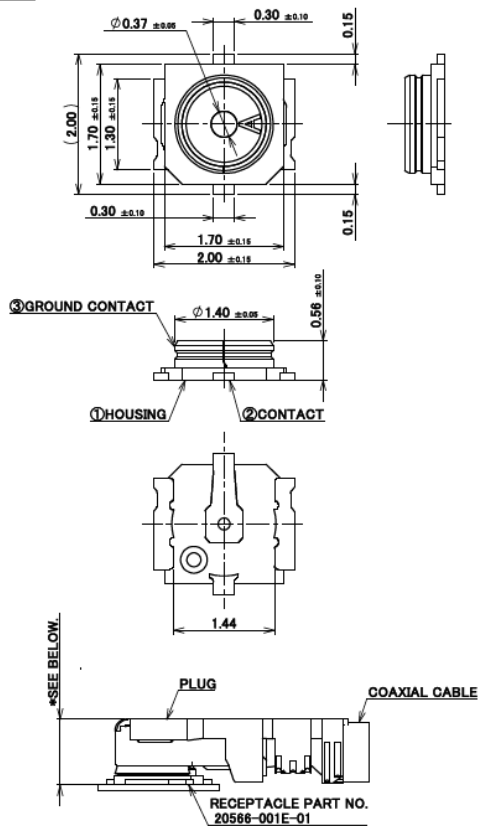
MHF 5 PUSHING TOOL
PART NO. 90624-0001

Rev.3

MHF[®] 5 Receptacle

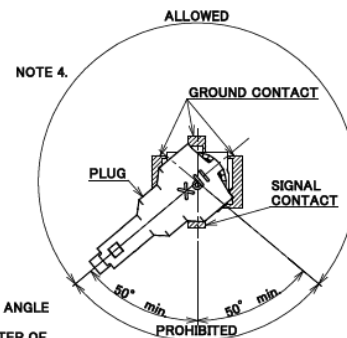
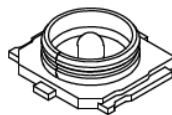
Recommended P/N 20566-001E-01

PART NO.
20566-001E-01



* 1.3 MAX. AT 20688-001R-13, 20714-001R-81
* 1.0 MAX. AT 20711-001R-81

MATING CONDITION



NOTES

1. APPLICABLE CONNECTOR

20567-001R-81
20615-00*R-48
20688-001R-13
20689-001R-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.

NO.	DESCRIPTION	MATERIAL	FINISH, REMARKS
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.
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

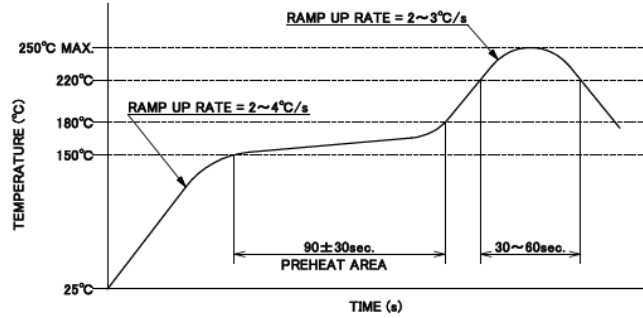
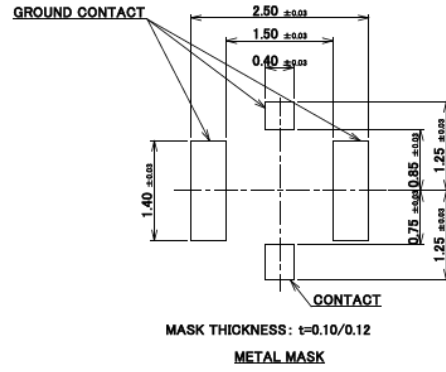
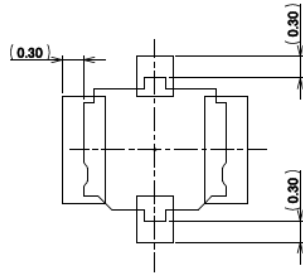
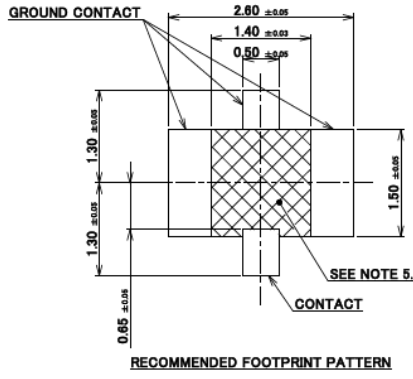
Rev.6

MHF[®] 5 Receptacle

ITEMS	SPECIFICATION		
	20688-001R-13	20711-001R-81 (CABLE AWG#36 ϕ 0.81)	20714-001R-81
RECOMMENDED APPLICABLE CONNECTOR PART No.			
RATING VOLTAGE	80 V AC (R.M.S)		
RATING FREQUENCY	DC~12 GHz		
OPERATING TEMPERATURE	233~383 K (-40°C~+90°C)		
VSWR	1.3 MAX. AT DC~3 GHz, 1.4 MAX. AT 3~6 GHz, 1.5 MAX. AT 6~12 GHz		
MAIN CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: Δ R 20 mohm MAX.		
GROUND CONTACT RESISTANCE	INITIAL: 20 mohm MAX. / AFTER TEST: Δ 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.	INITIAL: 5 N MIN. AFTER TEST: 3 N MIN.
PRODUCT SPECIFICATION	PRS-2192	PRS-2108	PRS-2236
TEST REPORT	TR-16003	TR-15062	TR-16049
PACKING STANDARD		PST-12036	
INSTRUCTION MANUAL	HIM-16014	HIM-16013	HIM-16014

Rev.6

MHF[®] 5 Receptacle



NOTES.
5. CUT OUT PROHIBITION AREA

Rev.6

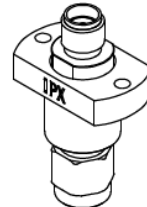
Accessories for MHF[®] 5 Receptacle



SMA ADAPTOR FOR MHF 5 PLUG
PART NO. 90543-0001

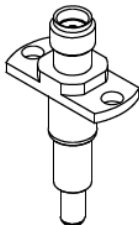


MHF 5 HIGH CYCLE PROBE
PART NO. 90690-0001

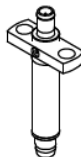


MHF 5 HIGH CYC ADAP BASE UNIT
PART NO. 90684-0001

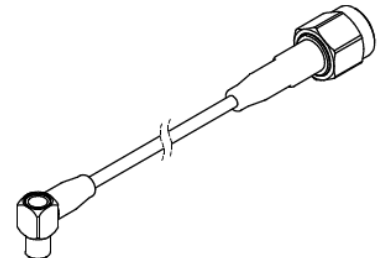
* 90690-0001 AND 90684-0001 SHOULD BE USED TOGETHER.



MHF 5 HIGH CYCLE ADAPTOR
PART NO. 90793-0001



MHF 5 4.5MM HIGH CYCLE TEST PROBE LONG TYPE
PART NO. 90847-0001



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

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

Rev.6



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