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APPROVAL SHEET

CUSTOMER：美商齊闊有限公司台灣分公司

DESCRIPTION：2.4G PCB + I-PEX FOR IN-WALL

SOC AA P/N：N-X1-XX-M

DATE：11-26-08”

WEIGHT：g/1PCS

經理 Manager	品保 QC	工程師 Engineer

CUSTOMER P/N：

Customer Approval：

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矽原精密電子股份有限公司

統一編號：12616070

SOC AA CORP., LTD. (Solution Of Connector & Antenna Corp. Ltd.)

台灣台南縣永康市中正三街 486 巷 50 號

No.50 Lane 486,Jhongjheng 3rd st.,Yongkang City, Tainan County, Taiwan. R.O.C

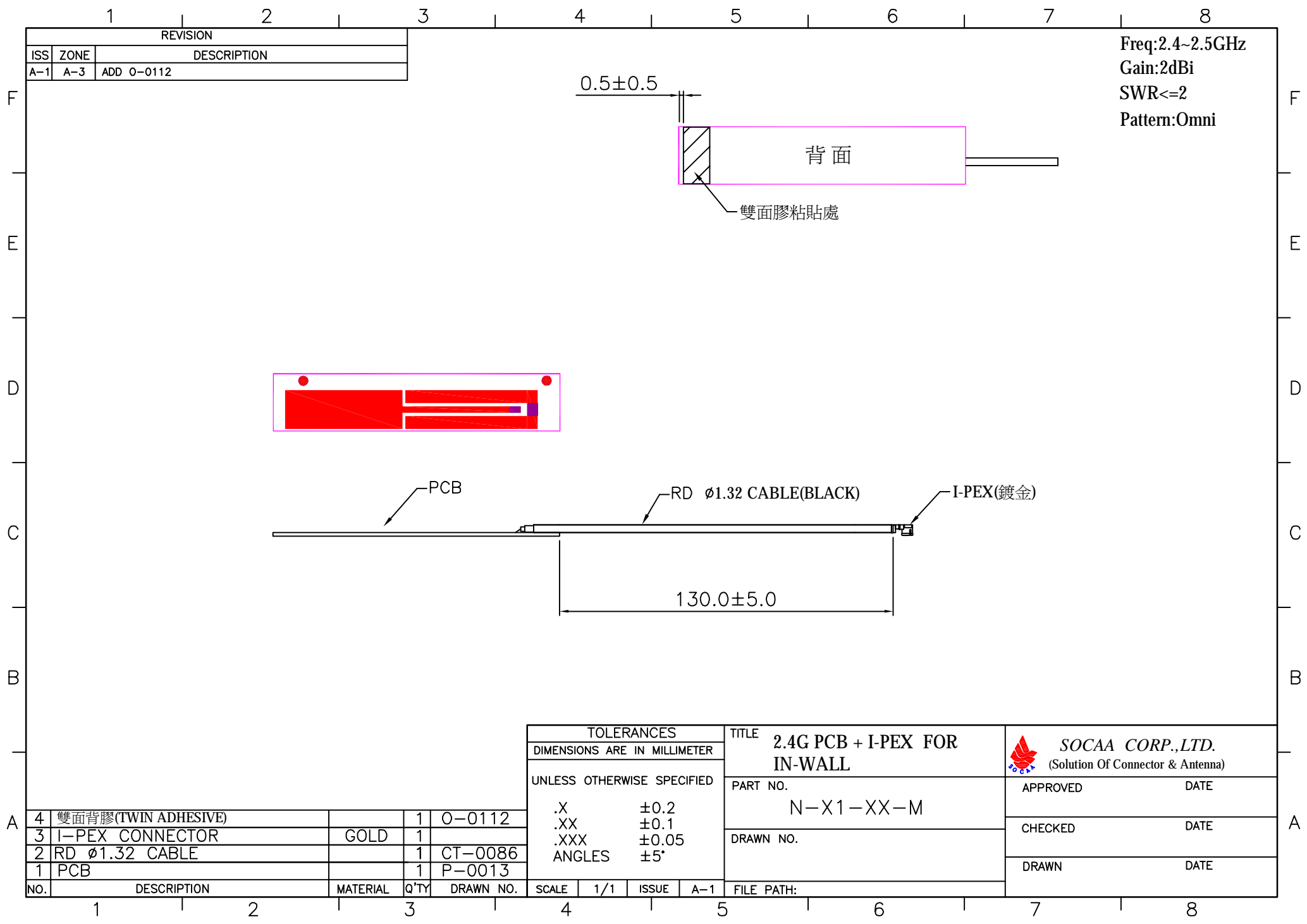
TEL：886-6-2427963~4

FAX：886-6-2427857

E-Mail：Linda-socaa@umail.hinet.net；Jenney-socaa@umail.hinet.net

網站：<http://www.socaa.com.tw>

承認書編號：



Freq:2.4~2.5GHz
Gain:2dBi
SWR<=2
Pattern:Omni

TOLERANCES				TITLE			
DIMENSIONS ARE IN MILLIMETER				2.4G PCB + I-PEX FOR IN-WALL			
UNLESS OTHERWISE SPECIFIED				PART NO.			
.X	±0.2	DRAWN NO.		N-X1-XX-M			
.XX	±0.1						
.XXX	±0.05						
ANGLES	±5°						
SCALE	1/1	ISSUE	A-1	FILE PATH:			

4	雙面背膠(TWIN ADHESIVE)		1	O-0112
3	I-PEX CONNECTOR	GOLD	1	
2	RD Ø1.32 CABLE		1	CT-0086
1	PCB		1	P-0013
NO.	DESCRIPTION	MATERIAL	Q'TY	DRAWN NO.

SOCAA CORP.,LTD.	
(Solution Of Connector & Antenna)	
APPROVED	DATE
CHECKED	DATE
DRAWN	DATE



矽原精密電子股份有限公司

SOCAA CORP.,LTD. (Soulution Of Connector & Antenna)

Sample Approval Sheet

Item/Part No : N-X1-XX-M		Quantity : 5 PCS	
Drawing No :		Material :	Date : 11-26-08"
Dimension Inspection			
Dimension in m/m	RD Measure Result (Max-Min)		QA Measure Result (Max-Min)
A 130.0±5.0	130.0-131.0		131.0-131.5
B ±			
C ±			
D ±			
E ±			
F ±			
G ±			
H ±			
I ±			
J ±			
K ±			
Surface Inspection			
Forming	OK	OK	
Electroplate	OK	OK	
Body	OK	OK	
Function Inspection			
Mating	OK	OK	
PCB Board Test	N/A	N/A	
Push Test	N/A	N/A	
Open/Short Test	OK	OK	
Shell Turn Test	N/A	N/A	
Torque Test	N/A	N/A	
Addition Measure Witness			
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<input checked="" type="checkbox"/> Qualified <input type="checkbox"/> Unqualified	

Quality Department : MANDY

Research Department : CHAD

F-QP-FD-013-01A

TESTING FOR SALT WATER MIST

TESTING DTAE: 11/24/08”		TESTING TIME : 4 8 HOUR	
COMPANY:SOCAA CORP.,LTD.	TEST MATERIAL : BRASS		PLATED:AU”
COMMODITY:N-X1-XX-M		CHARACTER :	
TESTING CONDITION:		AIR COMPRESS: FIRST COMPRESSION 2. SLIGHT COMPRESSION 1.	
SATURATION TEMPRATURE: 47 °C		TESTING TEMPERATURE: 35 °C	
CONSENQUENCE	ACCORDING TO C.N.S GRADE , DETERMINIMG 9.8 GRADE AND ITS CORRODED SURFACE IS UNDER 0.02 PERCENT 。		
REMARKS		MAKER	
		CHAD	



THE MATERIAL CERTIFICATE OF BRASS

Customer	SOCAA CORP.,LTD. (Solution Of Connector & Antenna)		
Material	Free cutting brass		
Stability-class: JIS H 3250 C3604 BD			
CHEMICAL COMPOSITION %			
Taster	X-RAY ANALYSIS		
Measurement	VACUUM X RAY SPECTROGRAPH		
ELEMENT	STANDARD VALUE	ACTUAL VALUE	REMARK
Cu	57.0-61.0%	58.43 %	
Pb	1.8-3.7 %	3.36 %	
Fe	<0.5 %	-----	
Sn+Fe	<1.2 %	0.71 %	
Zn	REMAINDER	REMAINDER	
Other			
MECHANICAL & PHYSICAL PROPERTIES			
Tensile strength : 360 N/mm ²			
Heated*material Hardness or stability, HB or HV : (90)			
REMARK:			
ASTM Standard: CA 360 Free cutting brass.			

The supplier must comply with the ROHS & SS-00259 Ver05 legislative requirements pertaining to Elimination of substances listed in the table below.

環境管理物質名稱、標準一覽表

list of “Environment-related Substances to be Controlled (Controlled Substances)”

物質名稱 Substances		含量標準 Quantity Limit
重金屬 Heavy metals	鎘以及鎘化合物 Cadminm and cadmium compounds	< 5 ppm
	鉛以及鉛化合物 Lead and lead compounds	< 100 ppm
	汞以及汞化合物 Mercury and Mercury compounds	< 10 ppm
	六價鉻化合物 Hexavalent chromium compounds	< 10 ppm
	鉛+鎘+汞+六價鉻(包裝材) Pb+Cd+Hg+Cr6(for packing material)	< 100 ppm
有機氯化物 Chlorinated organic compounds	聚氯聯苯 (PCB) Polychlorinated biphenyls (PCB)	0 ppm
	聚氯聯苯 (PCN) Polychlorinated naphthalenes (PCN)	0 ppm
	聚氯聯苯 (PCT) Polychlorinated terphenyls (PCT)	0 ppm
	氯代烷烴 (CP) Chlorinated paraffins (CP)	0 ppm
	其他有機氯化物 Other chlorinated organic compound	0 ppm
有機溴化合物 Brominated organic compounds	聚溴聯苯 (PBB) Polybominated biphenyls (PBB)	0 ppm
	聚溴二苯醚 (PBDE) Polybominated biphenyls (PBDE)	0 ppm
	其他有機溴化合物 Other brominated organic compound	0 ppm
三丁基錫化合物 Tributyltin compound		0 ppm
三苯基錫化合物 Triphenyltin compound		0 ppm
石棉 Asbestos		0 ppm
特定偶氮化合物 Specific azo compound		0 ppm
甲醛 Formaldehyde		0 ppm
聚氯乙烯(PVC)以及聚氯乙烯混合物 Polyvinyl chloride (PVC) and PVC blends		0 ppm

ROHS 指令排除條款〈2005/747/EC〉

此指令規範自 2006 年 7 月 1 日以後上市之電子電機產品，每單一「均質材料」內（指樣品為單一部分且無法再經機械拆解者）之鎘含量不得超過 0.01% 重量（100 PPM）

Directive from July 1st in 2006 hereafter put on market of the electronics electrical product, inside the single part(which is mean that the homogenous materials ,the sample as single composition and can't be mechanical disconnect), its Cadmium content can not more than 0.01% weights(100 ppm);Lead,mercury, Hexavalent Chromium and Polybrominated biphenyls (PBB) or Polybrominated diphenyl ethers (PBDE) content can not more than 0.1% weights(1000 ppm).

公司所生產之二極體產品針對無鉛的部分，僅限於外觀及接腳部份，而因目前公司所生產之二極體內部還需使用含有 85% 以上含鉛量之高溫錫膏無法去除，故適用排除條款第 7、16、17 項之規定

Our diode product which is in allusion to the lead free part, be limited by surface and lead pin only. but can't clean currently because of our diode product inner part need use Lead in high melting temperature type solders containing more than 85% lead, and this is suit for the Exemption No.7,16 and 17 items.

然而用於某些特殊用途之產品，並無替代材料，因此增列排除條款准予使用，往後至少四年會針對這些項目重新檢討。最近歐盟已將爭議性極大的十溴聯苯醚增列於排除條款中（2005/717/EC）爾後又新增其他排除條款（2005/747/EC）茲彙整排除條款如下：

As a result of some particular product ,at present don't have substitute material, add the exemptions approved, carrying out a review of the exemption at least every four years. The EU has already been tremendous the controversy recently of ten bromine biphenyl ethers add to list on to exempt from item in(2005/717/EC), add the other exemption item(2005/747/EC) again. Compile to exempt from item as follows:

2002/95/EC、2005/717/EC、2005/747/EC 排除條款：

- 小型螢光燈泡之重金屬汞含量不得超過 5mg/每支燈泡。
- Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
- 直式螢光燈泡：
- Mercury in straight fluorescent lamps (per lamp) for general purposes not exceeding :
 - 含鹵素磷酸鹽燈泡，汞含量不得超過 10mg / 每支燈泡；
 - Halophosphate, 10mg
 - 含三磷酸鹽之普通壽命的燈泡，汞含量不得超過 5mg / 每支燈
 - Triphosphate with normal lifetime, 5mg
 - 含三磷酸鹽之延長壽命的燈泡，汞含量則不得超過 8mg / 每支燈
 - Triphosphate with long lifetime, 8mg
- 汞使用於特殊用途之直立式螢光燈泡（如 LED 背光燈）
- Mercury in straight fluorescent lamps for special purposes.
- 不在此處列管之含汞金屬之燈泡（如 HID 燈）
- Mercury in other lamps not specifically mentioned
- 鉛使用於陰極射線管（CRT）玻璃、電子組件與螢光管。
- Lead in glass of cathode ray tubes,electrical parts and vacuum fluorescent displays
- 鉛使用於鋼材中最大容許濃度為 0.35% 重量，鋁材為 0.4% 重量，銅合金則為 4% 重量。
- Lead as an alloying element in steel containing up to 0.35% lead by weight,aluminium up to 0.4% lead by ewight and as a copper alloy containing up to 4% lead by weight.
- 鉛使用於高熔點之焊料時(如焊錫-鉛錫合金具 85% 之鉛含量)。
- Lead in high temperature type solder(i.e.solder alloys containing mort than 85% wt% lead)**
- 含鉛之錫鉛使用於伺服器、儲存槽與儲存陣列系統中、網路配備如開關、信號、傳輸、電信網路管理等。
- Lead in solder for servers,storage and storage array systems (exemption granted until 2010), network infrastructure equipment for switching, signaling, transmission as well as network

management for telecommunication.

-鉛使用於電子器材中之陶瓷零件。

-Lead in electronic ceramic parts (e.g. piezoelectronic device).

- 含有鎘及其化合物的電力接點與電鍍鎘的使用不包含 91/338/EEC 與 79/769/EEC 指令之禁制規範。
- Cadmium plating except for application banned Directive 91/338/EEC, amending Directive 76/769/EEC, relating to restrictions on the marketing and use of certain dangerous substances and preparations.
- 吸收式冷藏櫃冷卻系統使用六價鉻防腐蝕劑。
- Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators.
- 參照第 7 (2) 條之程序，執委會應評估其使用：
- Within the procedure referred to in Article 7 (2), the Commission shall evaluate the applications for :
 - 十溴聯苯醚 (deca-BDE).
 - Deca BDE.
 - 汞為特殊用途直形螢光燈管.
 - Mercury in straight fluorescent lamps for special purposes.
 - 為伺服器，儲存器及儲存行列系統、網路基礎設備如電信通訊之開關，訊號傳輸及網路管理(考量設定一除去之特定時限)，及
 - Lead in solder for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications (with a view to setting a specific time limit for this exemption), and
 - 燈泡
 - Light bulbs,
- 十溴聯苯醚使用於聚合物（如：橡膠、塑膠）中。
- **Lead used in compliant pin connector systems.**
- 鉛使用於鉛銅軸承殼（bearing-shell）及軸襯（bush）中。
- Lead as a coating material for the thermal conduction module c-ring.
- Compliant pin connector system 可以使用鉛。
- Thermal conduction module c-ring 可以使用鉛和鎘。
- 光學玻璃（optical glass）及濾鏡（filter glass）可以使用鉛和鎘。
- **Lead and cadmium in optical and filter glass.**
- **兩個以上焊接口之微處理器封裝（package of micro processor）與其接腳（pins）可以使用鉛佔 80% ~85% 比重的錫鉛焊料。**
- **Lead in solder consisting of more than two elements for the connection between the pins and pins and the Package of microprocessors with a lead content of more than 80% and less than 85% by weight.**
- 鉛使用於積體電路覆晶封裝（Flip Chip packages）內部的鐸錫；介於半導體晶片和載體間，來完成電力連結。
- **Lead in solders to complete a viable electrical connection between semiconductor die and carrier within Integrated circuit Flip Chip packages.**

MICRO COAXIAL CONNECTOR

Applicable for

IEEE802.11a/b/g/n, UWB, WiMAX, Bluetooth, iBurst,
ZigBee and MIMO(Multiple Input and multiple output)

RoHS Compliance

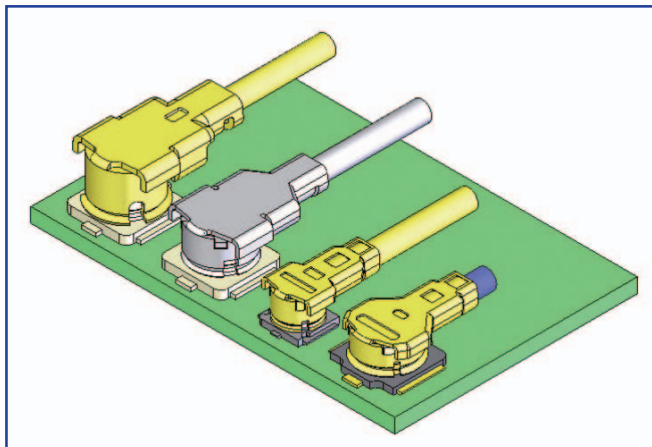


MHF SERIES

- PATENT PENDING -

Easy Cable termination by “ i-Fit ” Technology

MHF SERIES MICRO COAXIAL CONNECTOR



【Major Application】

- Wireless LAN Antenna
 - Cellular Phone
 - Note Book Computer
 - Game Equipment
 - Digital Appliance
 - Access Point

【Key Features】

- SMT Receptacle and Mating Plug Cable Connector
- Small form factor and low profile : 1.5mm to 2.5mm MAX. Mating Height
- Applicable Cable : O.D.0.8mm / 1.13mm / 1.32mm / 1.37mm and 1.8mm Coaxial Cable
- High productivity : Easy Cable termination by “i-Fit” without soldering
- Applicable Technology :
IEEE802.11 a/b/g/n, UWB, WiMAX, iBurst, Zigbee, Bluetooth Wireless and MIMO

【Specifications】

- Frequency Range : DC up to 6GHz (VSWR : 1.3MAX.)
- Characteristic Impedance : 50 ohm (Nominal)
- Temperature : -40°C to +90°C
- Rated Voltage : AC 60V
- Contact Resistance : 20m ohm MAX. (Signal) and 10m ohm MAX. (Ground)
- Withstand Voltage : AC 200V
- Insulation Resistance : 500M ohm MIN. / DC 100V

【Product Overview】

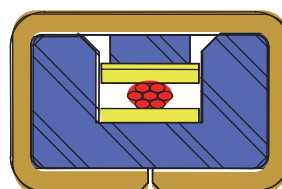
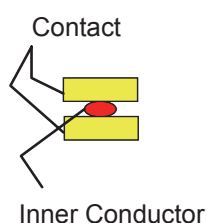
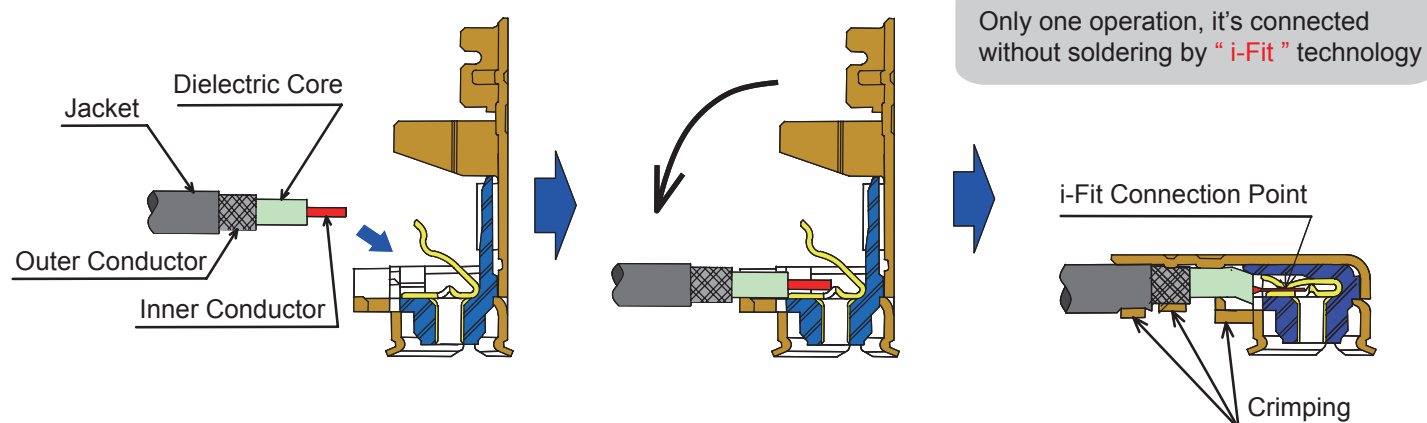
MHF type Plating (Center/Ground)	MHF Receptacle				MHF III Receptacle		MHF III-W Receptacle	
		MHF Plug	MHF-HT Plug	MHF II Plug		MHF III Plug		MHF III-W Plug
Au / Au	20279-001E-01	20278-1*1R-**	20351-1*1R-37	20311-011R-08	20369-001E	20367-001R	20407-001E	20406-001R
Au / Ag	20314-001E-01	20308-1*1R-13 20308-1*1R-32	N/A	20312-011R-**	N/A	N/A	N/A	N/A

◆ All Center contact are Gold Plated

Easy and Speedy Cable Connection of Center Conductor (i-Fit) and Outer Conductor at **Only one operation** by our special assembling tool

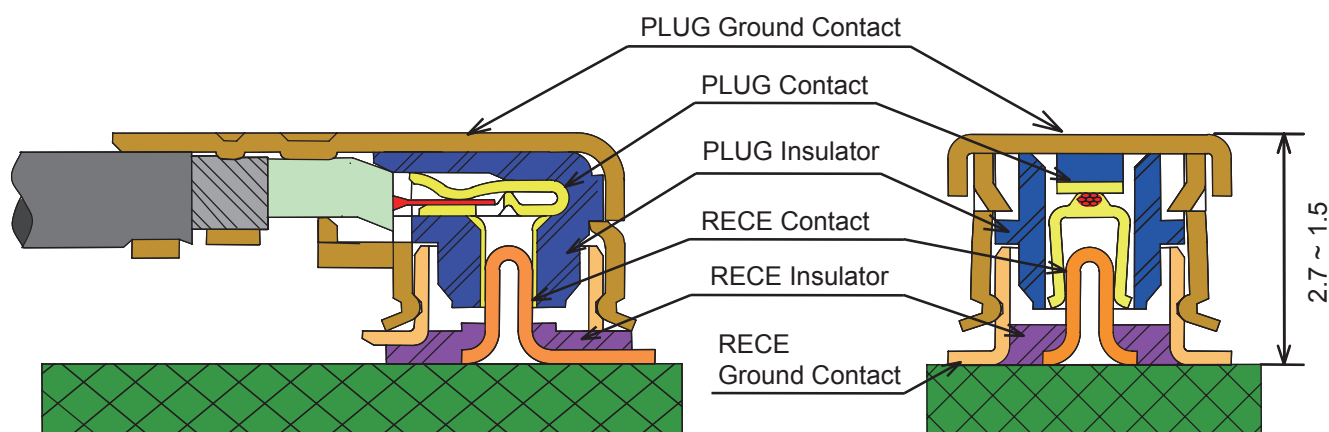
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PATENT PENDING



i-Fit

< Product Mechanism >



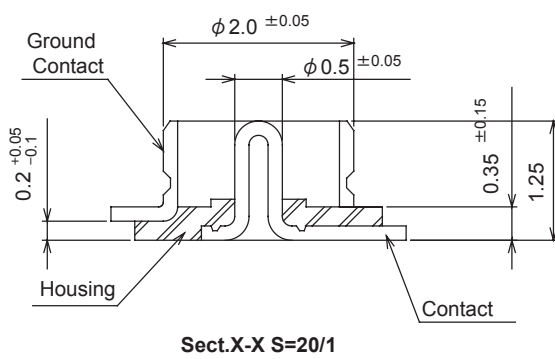
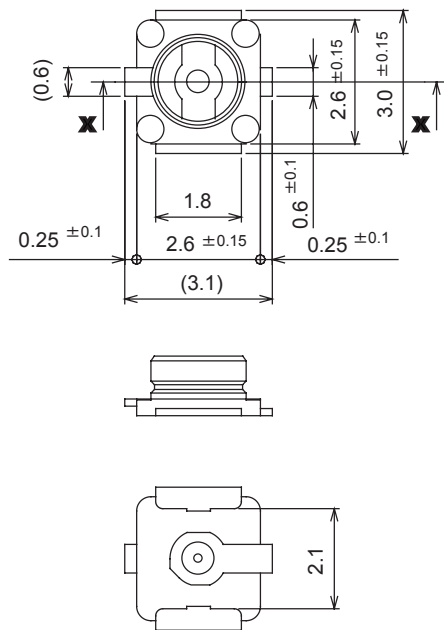
MHF Receptacle

【Part Number】

Ground Contact : **Au** Plating

20279-001 E-01

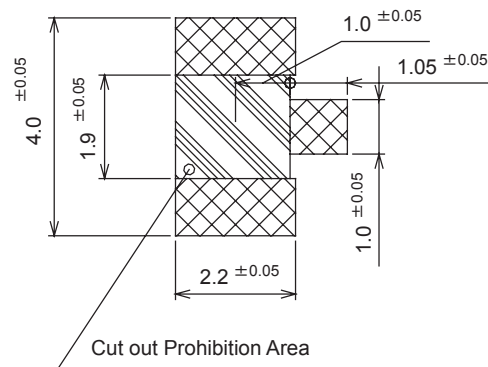
Packing : Emboss Tape
1reel : 2,500pcs



Ground Contact : **Ag** Plating

20314-001 E-01

Packing : Emboss Tape
1reel : 2,500pcs



RECOMMENDED FOOTPRINT PATTERN

【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	NATURAL
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au or Ag

MHF Plug Cable Assembly

Mating Height : 2.5mm MAX

Applicable for Four kinds of Cable Size

【Part Number】

Ground Contact : **Au** Plating

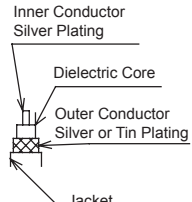
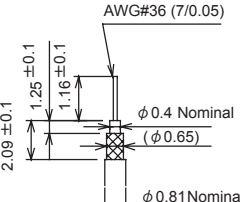
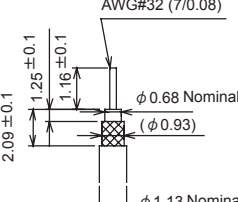
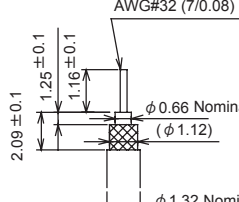
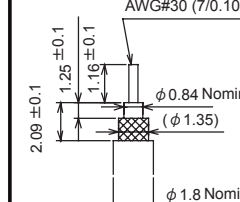
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 ① ② ③

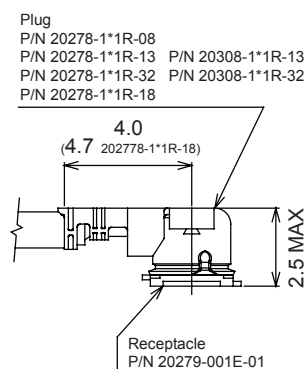
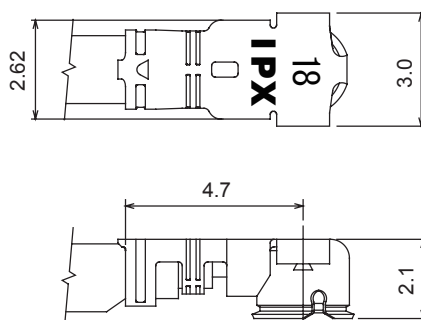
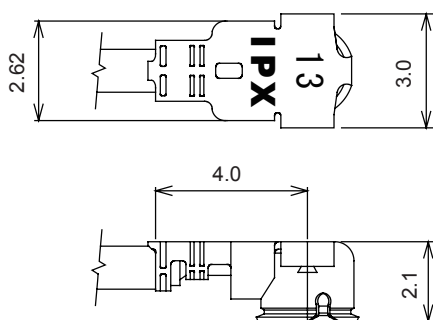
Ground Contact : **Ag** Plating

20308-1 * 1 R- * *
 ① ② ③

①	TOOL	0	for Hand Tool (with notch)
		1	for Semi Auto (without notch)
②	Packaging	R	Reel 1reel : 2,000pcs
③	Applicable Cable Size	-	08, 13, 32, 18

【Applicable Cable Size】

Part No. (Au)	20278-1*1R-08	20278-1*1R-13	20278-1*1R-32	20278-1*1R-18
Part No. (Ag)	-	20308-1*1R-13	20308-1*1R-32	-
	for AWG#36	for AWG#32	for AWG#32	for AWG#30
				
Braided Shield of Outer Conductor	Single Braided Shield	Single Braided Shield	Double Braided Shield	Single Braided Shield



【Material and Finish】

MATED VIEW

Parts	Material	Plating / Color	Note
HOUSING	PBT UL94V-0	NATURAL or BLACK	Only Au 08, Au 18 is NATURAL
CONTACT	COPPER ALLOY	Au	
GROUND CONTACT	COPPER ALLOY	Au or Ag	

MHF II Plug Cable Assembly

Mating Height : **2.0mm**

【Part Number】

Ground Contact : **Au** Plating

20311-011 R - 08

①

Ground Contact : **Ag** Plating

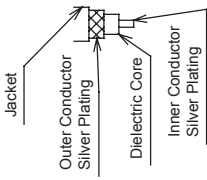
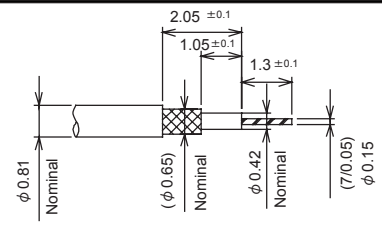
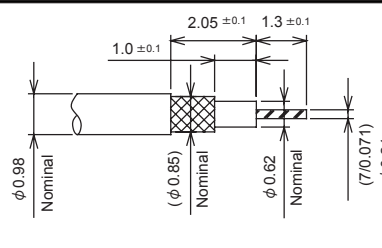
20312-011 R- * *

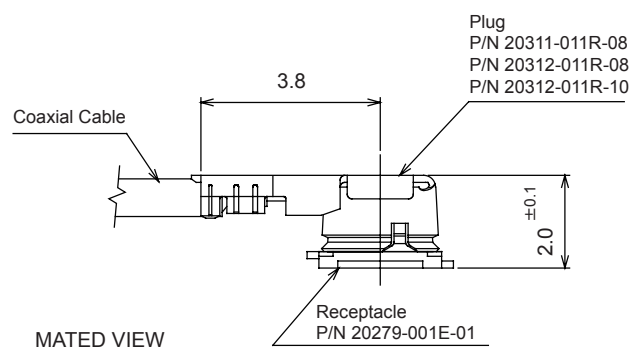
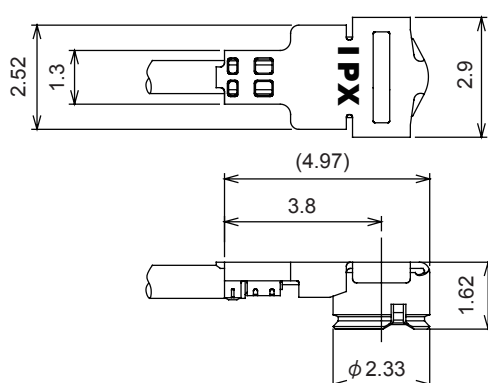
①

②

①	Packaging	R	Reel 1reel : 2,000pcs
②	Applicable Cable Size	-	08, 10

【Applicable Cable Size】

Part No. (Au)	20311-011R-08	-
Part No. (Ag)	20312-011R-08	20312-011R-10
	for AWG#36	for AWG#33
Applicable Cable Nominal Dimension 		
Braided Shield of Outer Conductor	Single Braided Shield	Single Braided Shield



【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	NATURAL
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au or Ag

MHF-HT Plug Cable Assembly

Applicable Cable for **O.D.1.37mm** Cable

【Part Number】

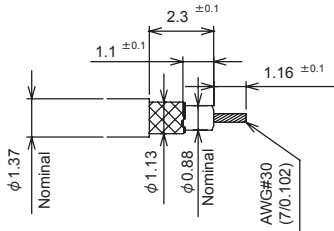
Ground Contact : **Au** Plating

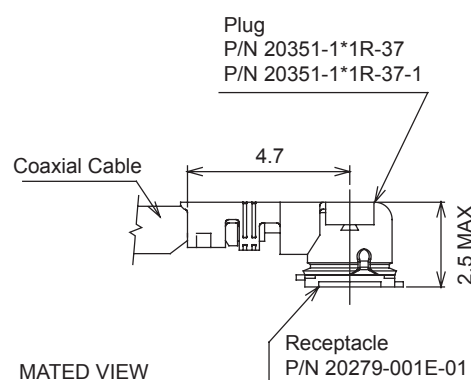
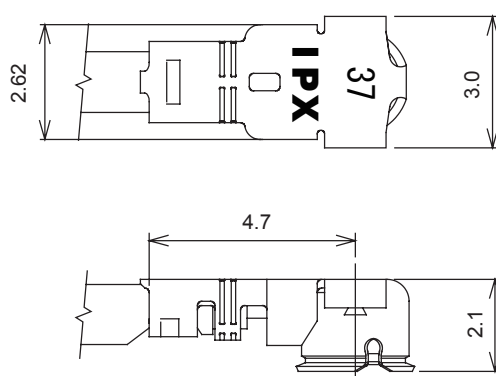
20351-1 * 1 R- 37- *

① ② ③

①	TOOL	0	for Hand Tool (with notch)
		1	for Semi Auto (without notch)
②	Packaging	R	Reel 1reel : 2,000pcs
③	Color of Housing	-	NATURAL
		1	BROWN

【Applicable Cable Size】

Part No. (Au)	20351-1*1R-37-*
Part No. (Ag)	-
	for AWG#30
Applicable Cable Nominal Dimension	
Braided Shield of Outer Conductor	Single Braided Shield



【Material and Finish】

Parts	Material	Plating / Color
HOUSING	PBT UL94V-0	NATURAL or BROWN
CONTACT	COPPEER ALLOY	Au
GROUND CONTACT	COPPEER ALLOY	Au

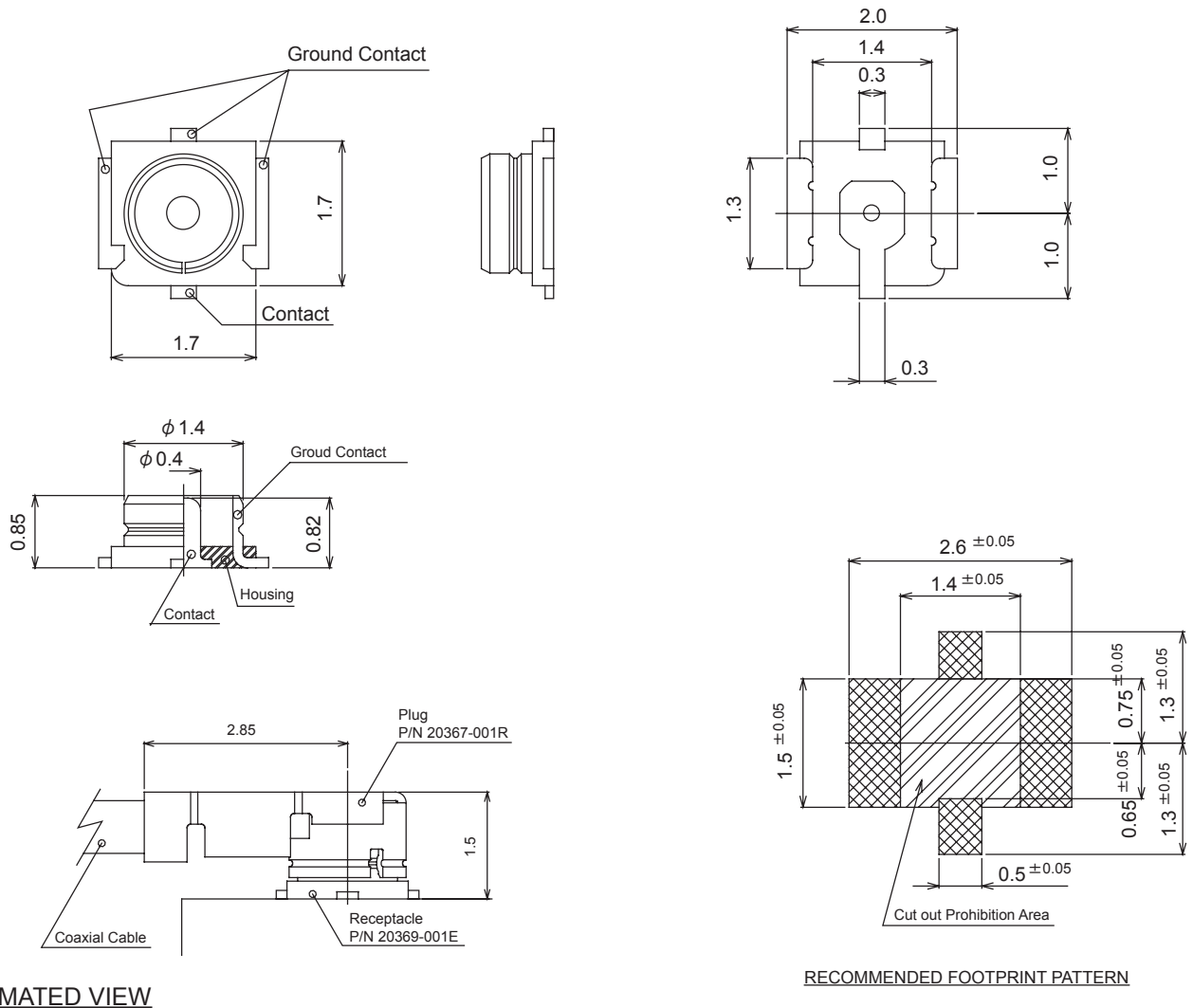
MHF III Receptacle

【Part Number】

Ground Contact : **Au Plating**

20369-001 E

Packing : Emboss Tape
1reel : 5,000pcs



MATED VIEW

RECOMMENDED FOOTPRINT PATTERN

【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	BLACK
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au

MHF III Plug Cable Assembly

Applicable Cable for **O.D.0.81mm** Cable

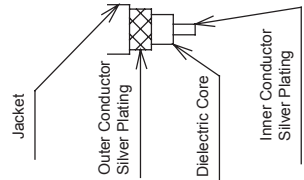
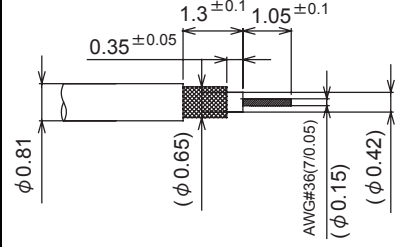
【Part Number】

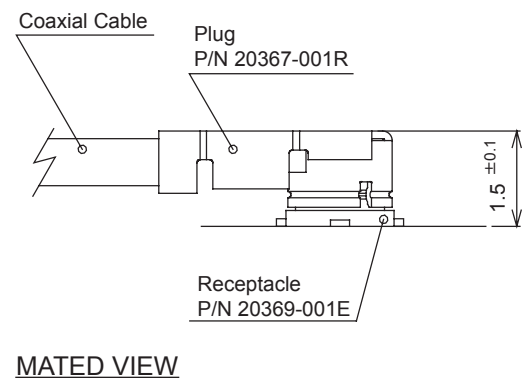
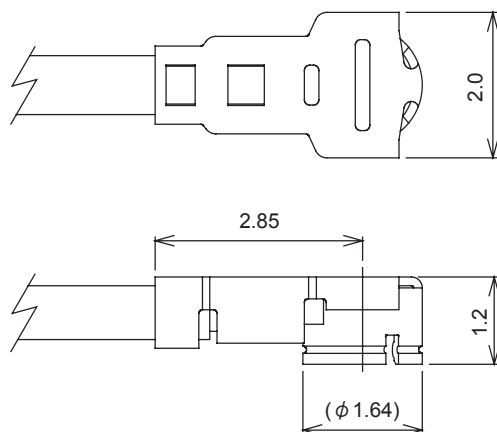
Ground Contact : **Au** Plating

20367 - 001 R

Packing : Reel
1 reel : 2,000pcs

【Applicable Cable Size】

Part No. (Au)	20367-001R
Part No. (Ag)	-
	for AWG#36
Applicable Cable Nominal Dimension 	
Braided Shield of Outer Conductor	Single Braided Shield



【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	NATURAL
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au

MHF III-W Receptacle

Under Development

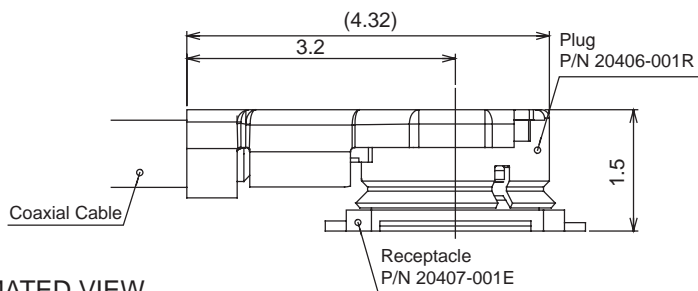
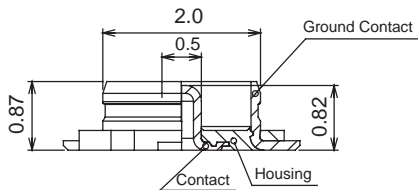
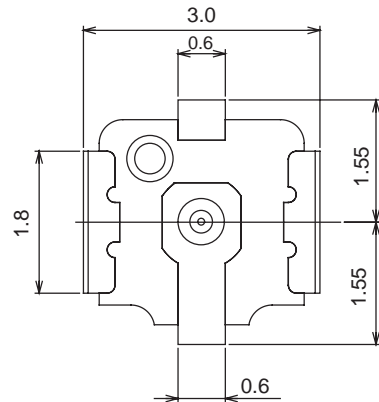
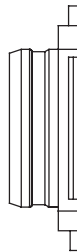
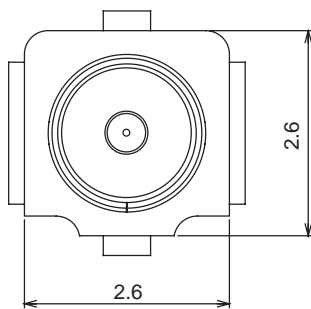
*Regarding its availability, please contact us.

【Part Number】

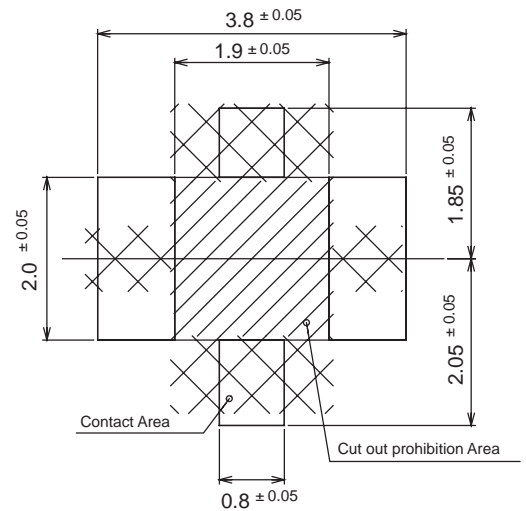
Ground Contact : **Au** Plating

20407-001 E

Packing : Emboss Tape
1reel : 2,000pcs



MATED VIEW



RECOMMENDED FOOTPRINT PATTERN

【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	BLACK
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au

MHF III-W Plug Cable Assembly

Applicable Cable for **O.D.0.81mm** Cable

【Part Number】

Ground Contact : **Au** Plating

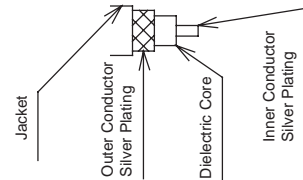
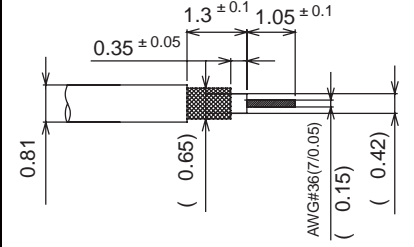
Under Development

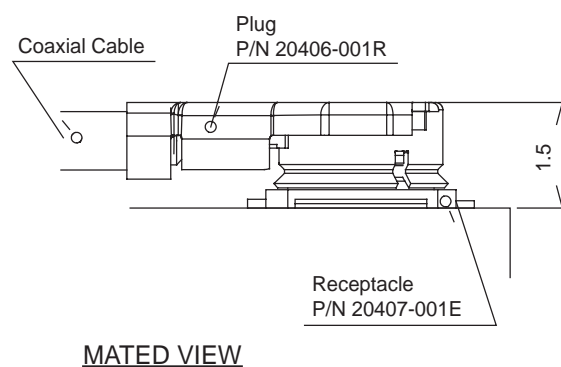
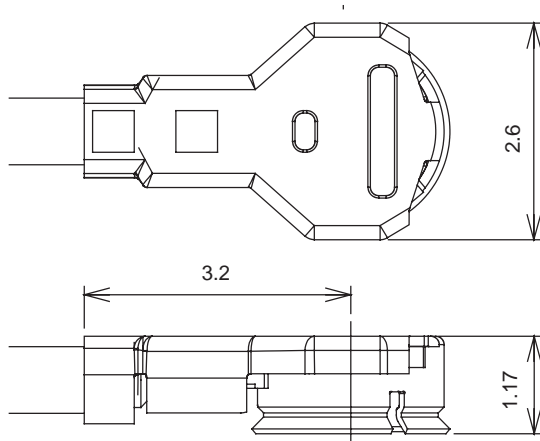
*Regarding its availability, please contact us.

20406 - 001 R

Packing : Reel
1 reel : 2,000pcs

【Applicable Cable Size】

Part No. (Au)	20406-001R
Part No. (Ag)	-
	for AWG#36
<p>Applicable Cable Nominal Dimension</p> 	
Braided Shield of Outer Conductor	Single Braided Shield



【Material and Finish】

Parts	Material	Plating / Color
HOUSING	LCP UL94V-0	NATURAL
CONTACT	COPPER ALLOY	Au
GROUND CONTACT	COPPER ALLOY	Au



MHF SERIES CONNECTORS

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Hong Kong

Unit 18, 8/F, Bank of America Tower, 12 Harcourt Road,
Admiralty, Hong Kong
TEL 852-2735-8077 FAX 852-2735-8099

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2305 Donley Drive, Suite110, Austin, Texas 78758 USA
TEL +1-512-339-IPEX(4739) FAX +1-512-339-4745

<http://www.i-pex.com>

Product design and specification is subject to change for improvement without notice in advance. Please inquire to I-PEX representative for your confirmation.

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桃園縣中壢市北園路17號


NO. 17, PEI-YUAN ROAD, CHUNG-LI IND. PARK, TAOYUAN, TAIWAN, R. O. C.



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : RF COAXIAL CABLE, RG-178B/U, RG-179/U, RG-316/U, MINI 0.8MM & 1.13MM & 1.32MM & 1.37MM & 1.48MM, RF405A
樣品型號(Style/Item No.) : BLACK、BROWN、ORANGE、BLUE、GRAY、WHITE
收件日期(Sample Receiving) : 2007/12/26
測試期間(Testing Period) : 2007/12/26 TO 2008/1/3

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).


Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試結果(Test Results)

測試部位(PART NAME) NO.1	: 銀色金屬線鍍層 (PLATING LAYER OF SILVER COLORED METAL WIRE)
測試部位(PART NAME) NO.2	: 半透明塑膠粒 (TRANSLUCENT PLASTIC PELLETS)
測試部位(PART NAME) NO.3	: 銀色金屬線底材 (BASE MATERIAL OF SILVER COLORED METAL WIRE)
測試部位(PART NAME) NO.4	: 黑色塑膠外被 (BLACK PLASTIC JACKET)
測試部位(PART NAME) NO.5	: 咖啡色塑膠外被 (BROWN PLASTIC JACKET)
測試部位(PART NAME) NO.6	: 橘色塑膠外被 (ORANGE PLASTIC JACKET)
測試部位(PART NAME) NO.7	: 藍色塑膠外被 (BLUE PLASTIC JACKET)
測試部位(PART NAME) NO.8	: 灰色塑膠外被 (GRAY PLASTIC JACKET)
測試部位(PART NAME) NO.9	: 白色塑膠外被 (WHITE PLASTIC JACKET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鎘含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鉛含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP- AES.	2	6	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測汞含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	n.d.	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	針對金屬材質之樣品, 參考IEC 62321, Ed. 1 111/54/CDV方法檢 測, 用Spot test / Colorimetric方法檢測六價鉻含 量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.	0.02mg/kg with 50 cm ² surface area	Negative	---	Negative
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考IEC 62321, Ed. 1 111/54/CDV 方法 檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	---	n.d.	---
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321, Ed. 1 111/54/CDV方法, 以氣相層析儀/ 質譜儀檢測多溴聯苯和多溴聯苯 醚含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	---	n.d.	---
一溴聯苯 / Monobromobiphenyl			5	---	n.d.	---
二溴聯苯 / Dibromobiphenyl			5	---	n.d.	---
三溴聯苯 / Tribromobiphenyl			5	---	n.d.	---
四溴聯苯 / Tetrabromobiphenyl			5	---	n.d.	---
五溴聯苯 / Pentabromobiphenyl			5	---	n.d.	---
六溴聯苯 / Hexabromobiphenyl			5	---	n.d.	---
七溴聯苯 / Heptabromobiphenyl			5	---	n.d.	---
八溴聯苯 / Octabromobiphenyl			5	---	n.d.	---
九溴聯苯 / Nonabromobiphenyl			5	---	n.d.	---
十溴聯苯 / Decabromobiphenyl			5	---	n.d.	---

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.1	NO.2	NO.3
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV 方法, 以氣相層析儀/ 質譜儀檢測多溴聯苯和多溴聯苯 醚含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	---	n.d.	---
一溴聯苯醚 / Monobromobiphenyl ether			5	---	n.d.	---
二溴聯苯醚 / Dibromobiphenyl ether			5	---	n.d.	---
三溴聯苯醚 / Tribromobiphenyl ether			5	---	n.d.	---
四溴聯苯醚 / Tetrabromobiphenyl ether			5	---	n.d.	---
五溴聯苯醚 / Pentabromobiphenyl ether			5	---	n.d.	---
六溴聯苯醚 / Hexabromobiphenyl ether			5	---	n.d.	---
七溴聯苯醚 / Heptabromobiphenyl ether			5	---	n.d.	---
八溴聯苯醚 / Octabromobiphenyl ether			5	---	n.d.	---
九溴聯苯醚 / Nonabromobiphenyl ether			5	---	n.d.	---
十溴聯苯醚 / Decabromobiphenyl ether			5	---	n.d.	---
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)			-	---	n.d.	---

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.4	NO.5	NO.6
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鎘含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鉛含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP- AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測汞含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考IEC 62321, Ed. 1 111/54/CDV 方法 檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	n.d.	n.d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO. 4	NO. 5	NO. 6
全氟辛酸(銨) / PFOA	mg/kg	2005,39,3904-3910 環境科學技術期刊, 全氟辛酸類化合物於選定的消費性產品之曝露評估與風險描述分析儀器為LC/MS. / With reference to Environ. Sci. Technol.2005,39,3904-3910 Exposure Assessment and Risk Characterization for Perfluorooctanoate in Selected Consumer Articles. Analysis was performed by LC/MS.	1	n.d.	---	---
全氟辛磺酸 / PFOS	mg/kg	2005,39,3904-3910 環境科學技術期刊, 全氟辛酸類化合物於選定的消費性產品之曝露評估與風險描述分析儀器為LC/MS. / With reference to Environ. Sci. Technol.2005,39,3904-3910 Exposure Assessment and Risk Characterization for Perfluorooctanoate in Selected Consumer Articles. Analysis was performed by LC/MS.	1	n.d.	---	---

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)		
				NO.4	NO.5	NO.6
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 以氣相層析儀/ 質譜儀檢測多溴聯苯和多溴聯苯 醚含量。 / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)			-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromobiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromobiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromobiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromobiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromobiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromobiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromobiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromobiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromobiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromobiphenyl ether			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)			-	n.d.	n.d.	n.d.

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WONDERFUL HI-TECH CO., LTD.

桃園縣中壢市北園路17號

NO. 17, PEI-YUAN ROAD, CHUNG-LI IND. PARK, TAOYUAN, TAIWAN, R. O. C.



測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				NO.7	NO.8	NO.9
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鎘含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.
鉛 / Lead (Pb)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測鉛含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP- AES.	2	n.d.	n.d.	n.d.
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 用感應耦合電 漿原子發射光譜儀 (ICP-AES) 檢 測汞含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	n.d.	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	針對非金屬材質之樣品, 參考 IEC 62321, Ed. 1 111/54/CDV 方法 檢測, 用UV-VIS檢測六價鉻含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	n.d.	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				NO.7	NO.8	NO.9
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV方法, 以氣相層析儀/ 質譜儀檢測多溴聯苯和多溴聯苯 醚含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.	n.d.	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.	n.d.	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.	n.d.	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	n.d.	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.	n.d.	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.	n.d.	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.	n.d.	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.	n.d.	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.	n.d.	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.	n.d.	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果(Result)		
				NO.7	NO.8	NO.9
多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)	mg/kg	參考 IEC 62321, Ed. 1 111/54/CDV 方法, 以氣相層析儀/ 質譜儀檢測多溴聯苯和多溴聯苯 醚含量. / With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.	n.d.	n.d.
一溴聯苯醚 / Monobromobiphenyl ether			5	n.d.	n.d.	n.d.
二溴聯苯醚 / Dibromobiphenyl ether			5	n.d.	n.d.	n.d.
三溴聯苯醚 / Tribromobiphenyl ether			5	n.d.	n.d.	n.d.
四溴聯苯醚 / Tetrabromobiphenyl ether			5	n.d.	n.d.	n.d.
五溴聯苯醚 / Pentabromobiphenyl ether			5	n.d.	n.d.	n.d.
六溴聯苯醚 / Hexabromobiphenyl ether			5	n.d.	n.d.	n.d.
七溴聯苯醚 / Heptabromobiphenyl ether			5	n.d.	n.d.	n.d.
八溴聯苯醚 / Octabromobiphenyl ether			5	n.d.	n.d.	n.d.
九溴聯苯醚 / Nonabromobiphenyl ether			5	n.d.	n.d.	n.d.
十溴聯苯醚 / Decabromobiphenyl ether			5	n.d.	n.d.	n.d.
多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)			-	n.d.	n.d.	n.d.

備註(Note) :

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
5. "-" = Not Regulated (無規格值)
6. ** = Qualitative analysis (No Unit) 定性分析(無單位)
7. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)

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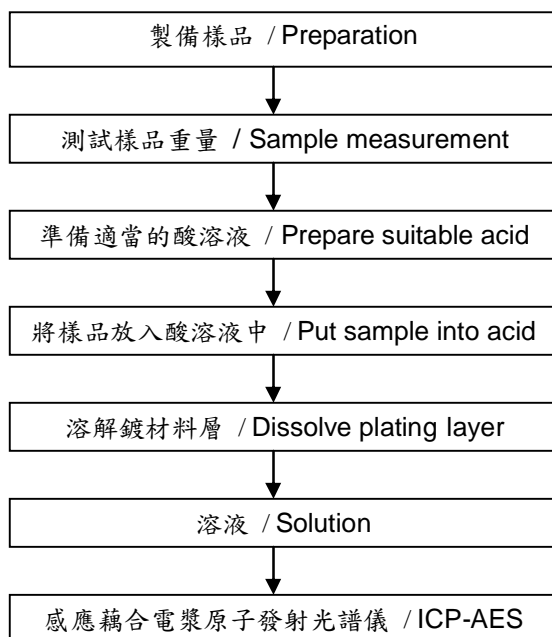
NO. 17, PEI-YUAN ROAD, CHUNG-LI IND. PARK, TAOYUAN, TAIWAN, R. O. C.



NO.1

- 1) 根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung

鍍層重金屬測試流程圖 / Flow Chart of Stripping method for metal analysis



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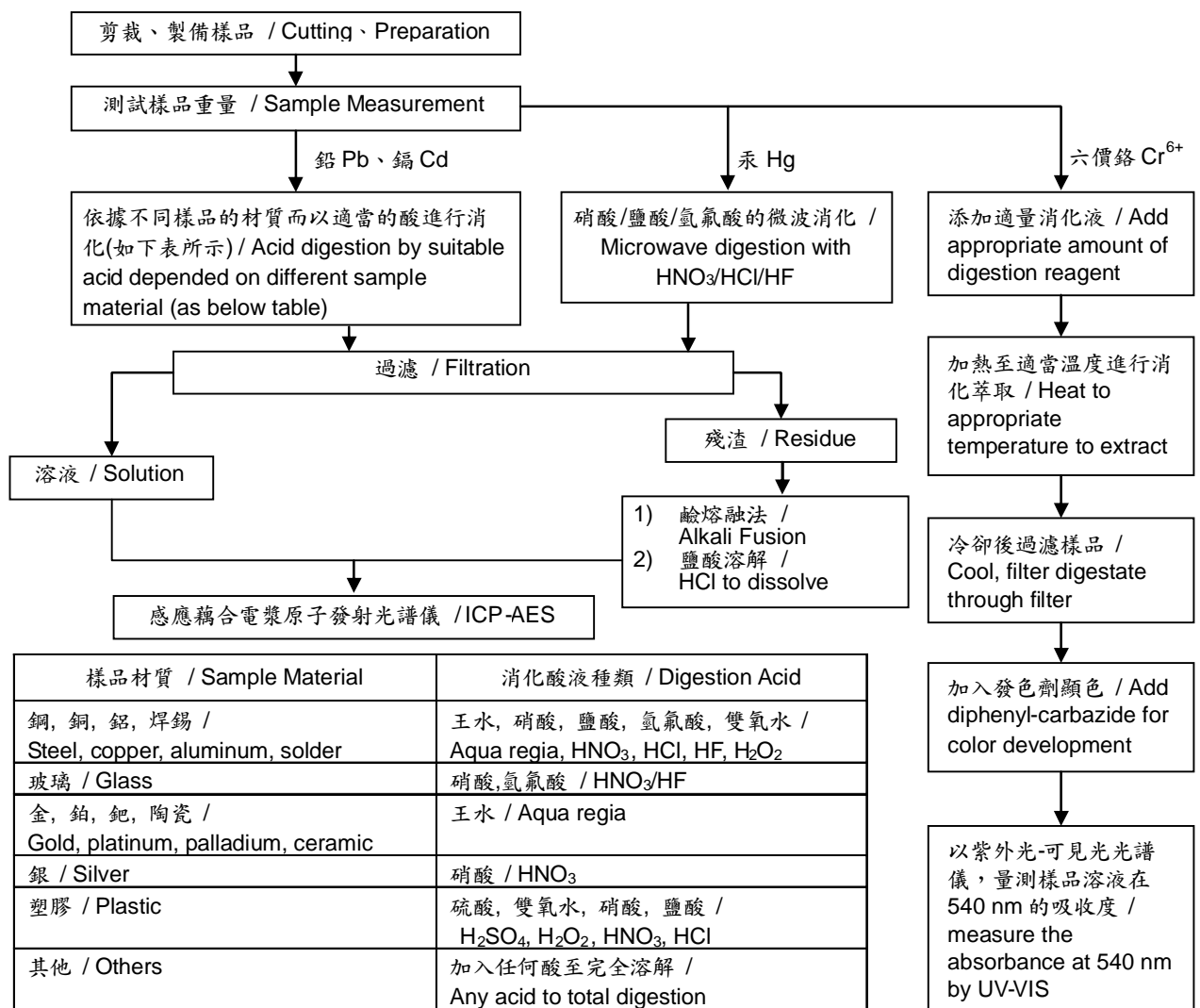
桃園縣中壢市北園路17號

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NO.2-9

- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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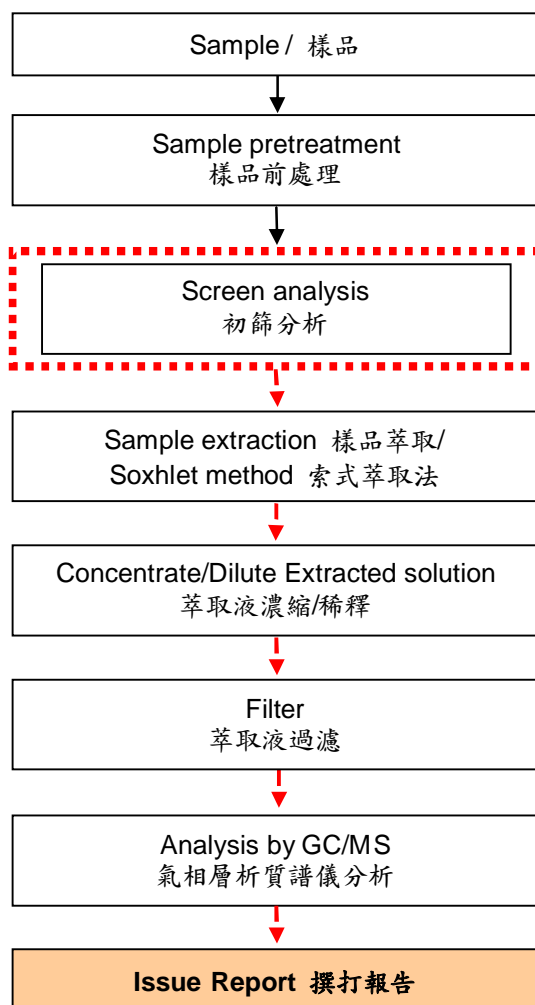


多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

初次測試程序 / First testing process —————→

選擇性篩檢程序 / Optional screen process→

確認程序 / Confirmation process - - - - -→



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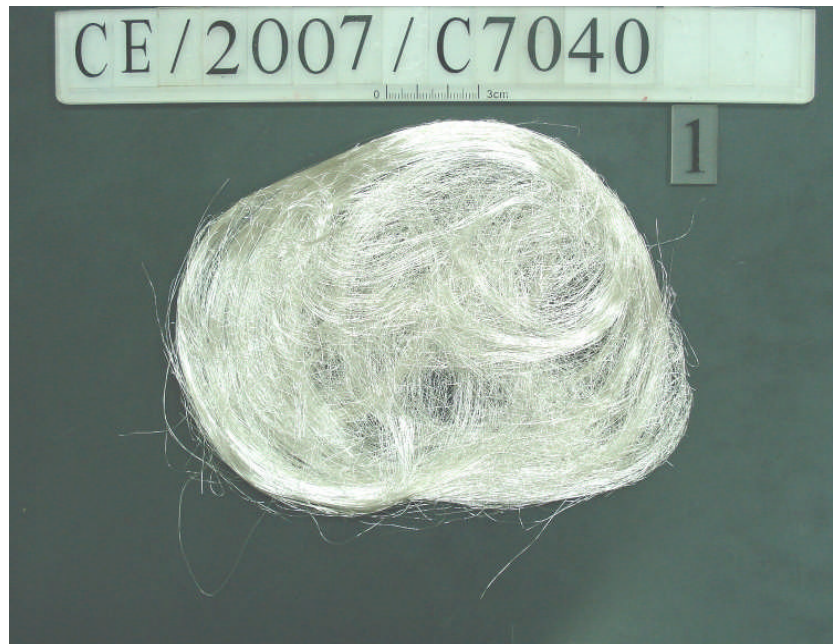
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