

WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)
TAI HWA ELECTRONIC CO., LTD.(CHINA)
SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA)
AEON TECH CO., LTD. (CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 中磊科技股份有限公司

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: CI47-510198-A **REV.:** XI

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

譁裕實業股份有限公司

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TAI HWA ELECTRONIC CO., LTD. (CHINA)

台 樂 電 業 制 品 廠

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HUA HONG INTERNATIONAL LTD.

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Fax: + 86-852-23843747

SHANGHAI HUA YU ELECTRONIC CO., LTD. (CHINA)

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Fax: + 86-21-59741347

SU ZHOU AEON TECH CO., LTD. (CHINA)

蘇 州 華 廣 電 通 有 限 公 司

Address:Limin North Road, LiLi Town,LiLi Industrial Park,LinHu Economic Zone

Wujiang City,Jiangsu Province,China

Tel: + 86-512-63627980

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RF Antenna Cable Assembly

Specification

1. Electrical Properties :

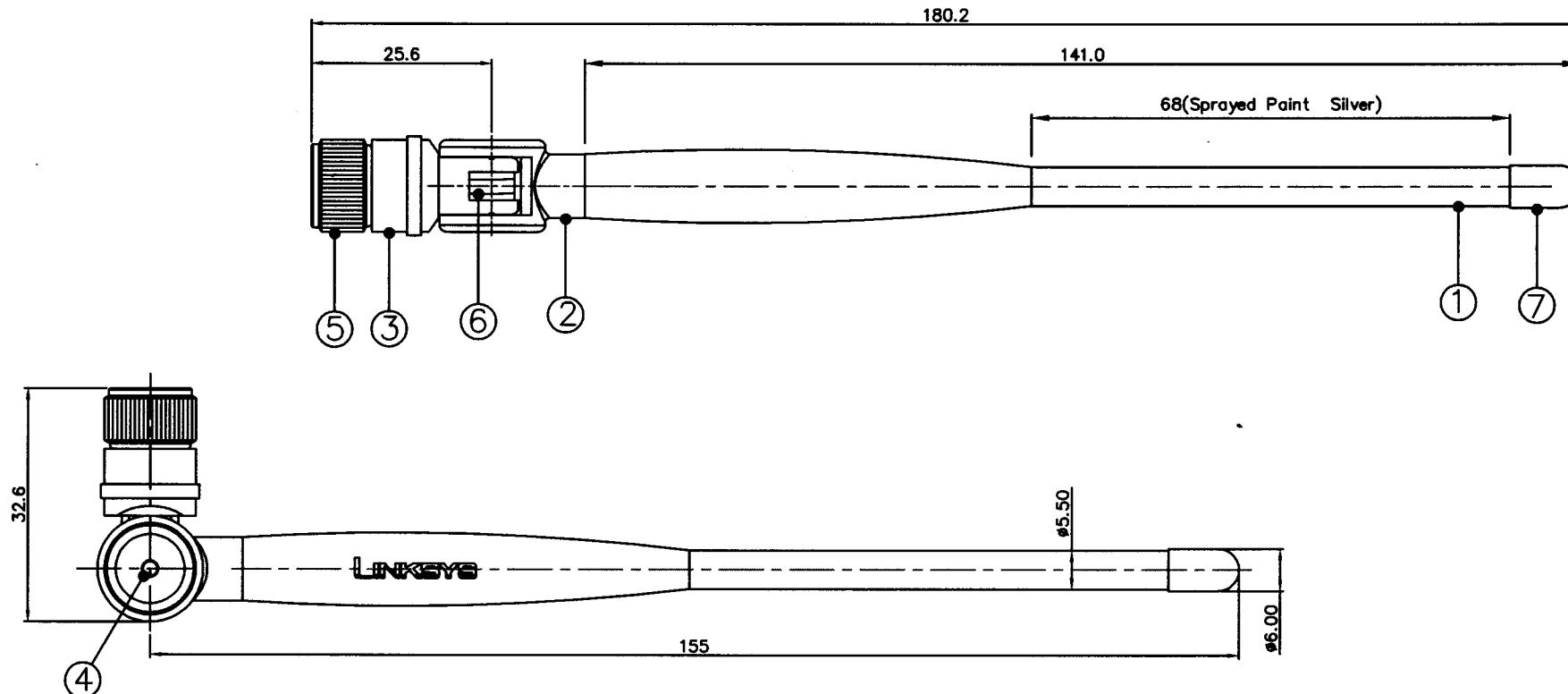
- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 Max.
- 1.4 Return Loss..... -10 dB Maximum
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 2dBi
- 1.7 Polarization..... Linear Vertical
- 1.8 Admitted Power..... 1W

2. Physical Properties :

- 2.1 Cable..... RG-178 Coaxial Cable
- 2.2 Antenna Cover..... TPE(Sprayed Silver Paint)
- 2.3 Antenna Base..... PC
- 2.4 Antenna Base..... PC
- 2.5 Operating Temp. -20°C ~ +65°C
- 2.6 Storage Temp. -30°C ~ +75°C
- 2.7 Color Black
- 2.8 Connector..... SMA Plug Reverse

CG-XX

REV	DATE	DESCRIPTION
X1	10/14-2005	New Issue



NO	DESCRIPTION	QTY	REMARK
7	Antenna Head Cap TPE ; Color : Black	1	
6	Cable RG-178 ,50Ω ,Translucent Brown	1	
5	Connector SMA Plug Reverse	1	
4	Rivet POM ; Black	2	
3	Antenna Base PC ; Color : Black	1	
2	Antenna Base PC ; Color : Black	1	
1	Antenna Body TPE ; Color : Black	1	

CUSTOMER'S SIGNATURE

XX	13.0	APPROVED
X	12.0	2010/10/14
X	11.0	CHECKED
XX	10.5	陳淑娟
XXX	10.1	DRAWING NO. C147-510198-A
		程淑娟

CUSTOMER: 中瀛科技股份有限公司

PART NO :

PARTNAME: RF Antenna Assembly

W.Y PNO : C147-510198-A

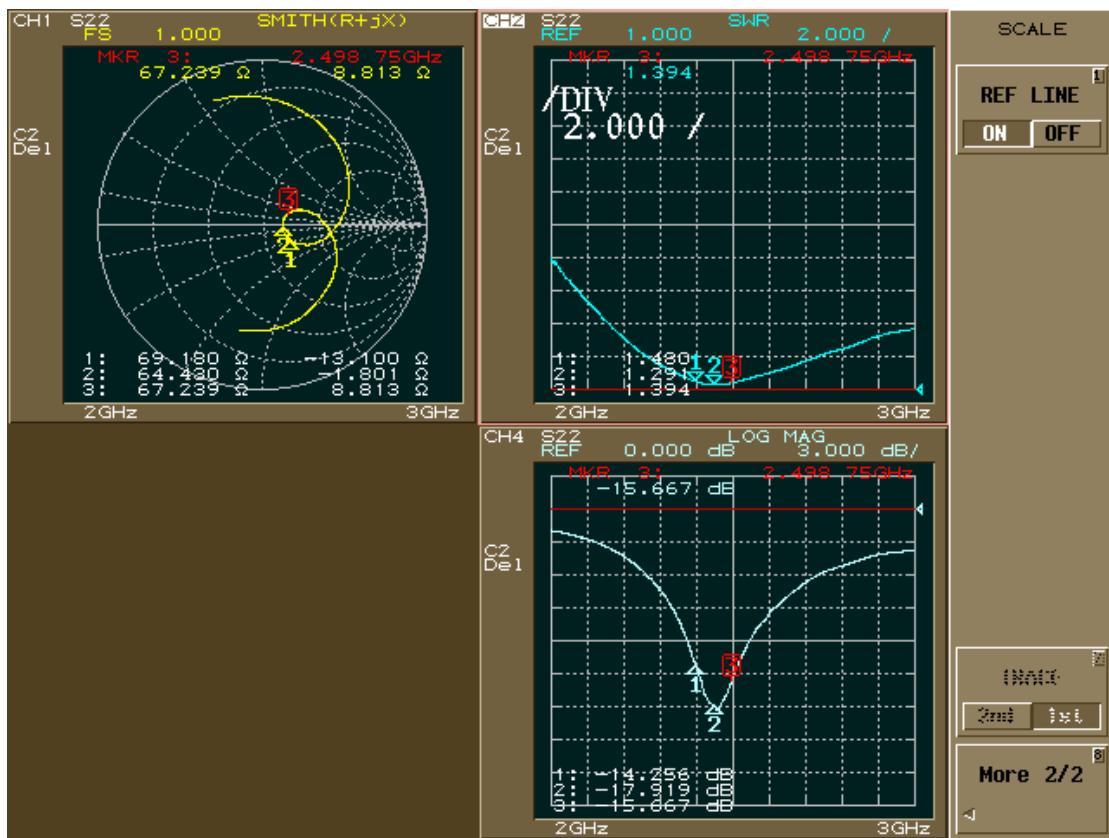
REV UNIT FILE :

X1 m/m SHEET: 1/1

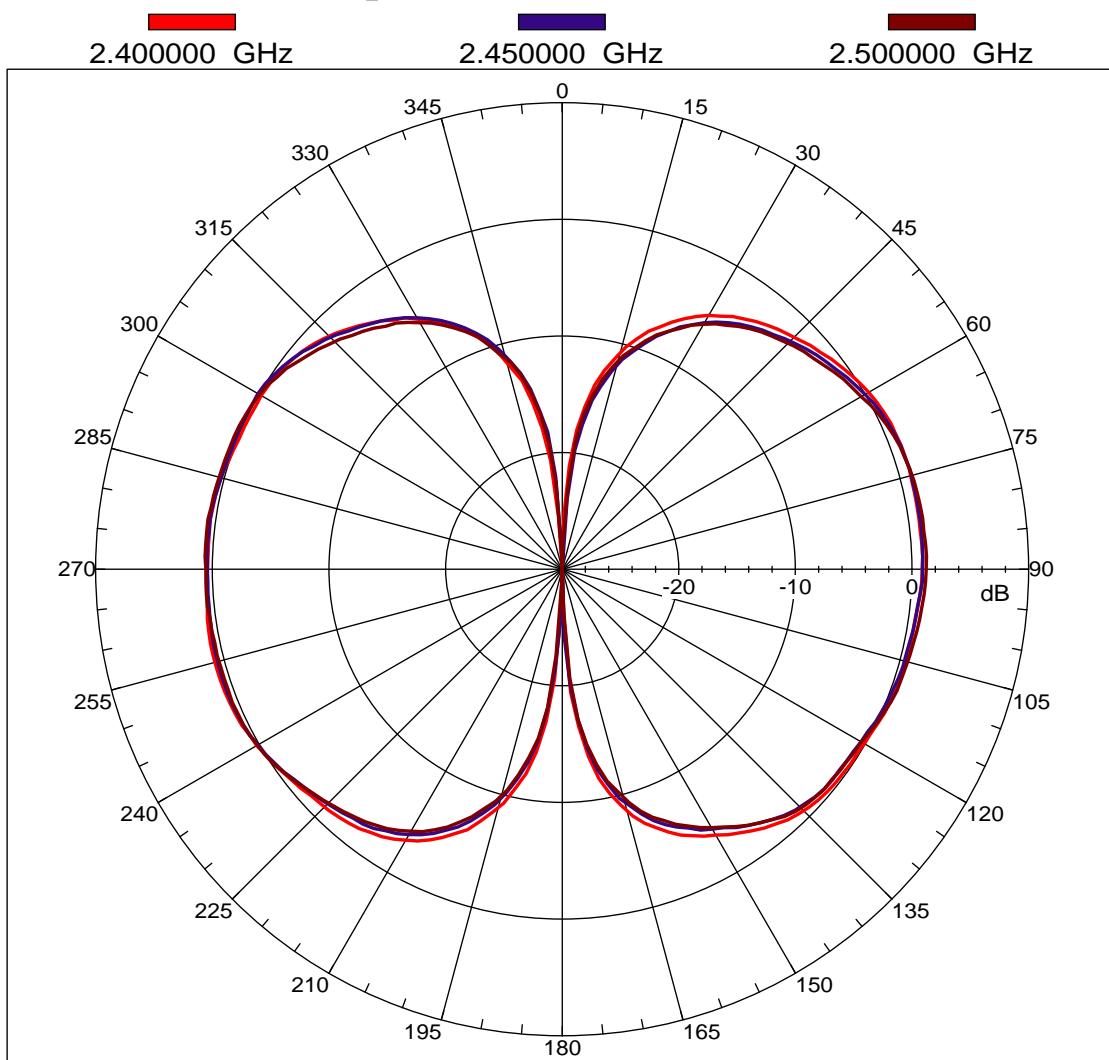

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華裕實業股份有限公司
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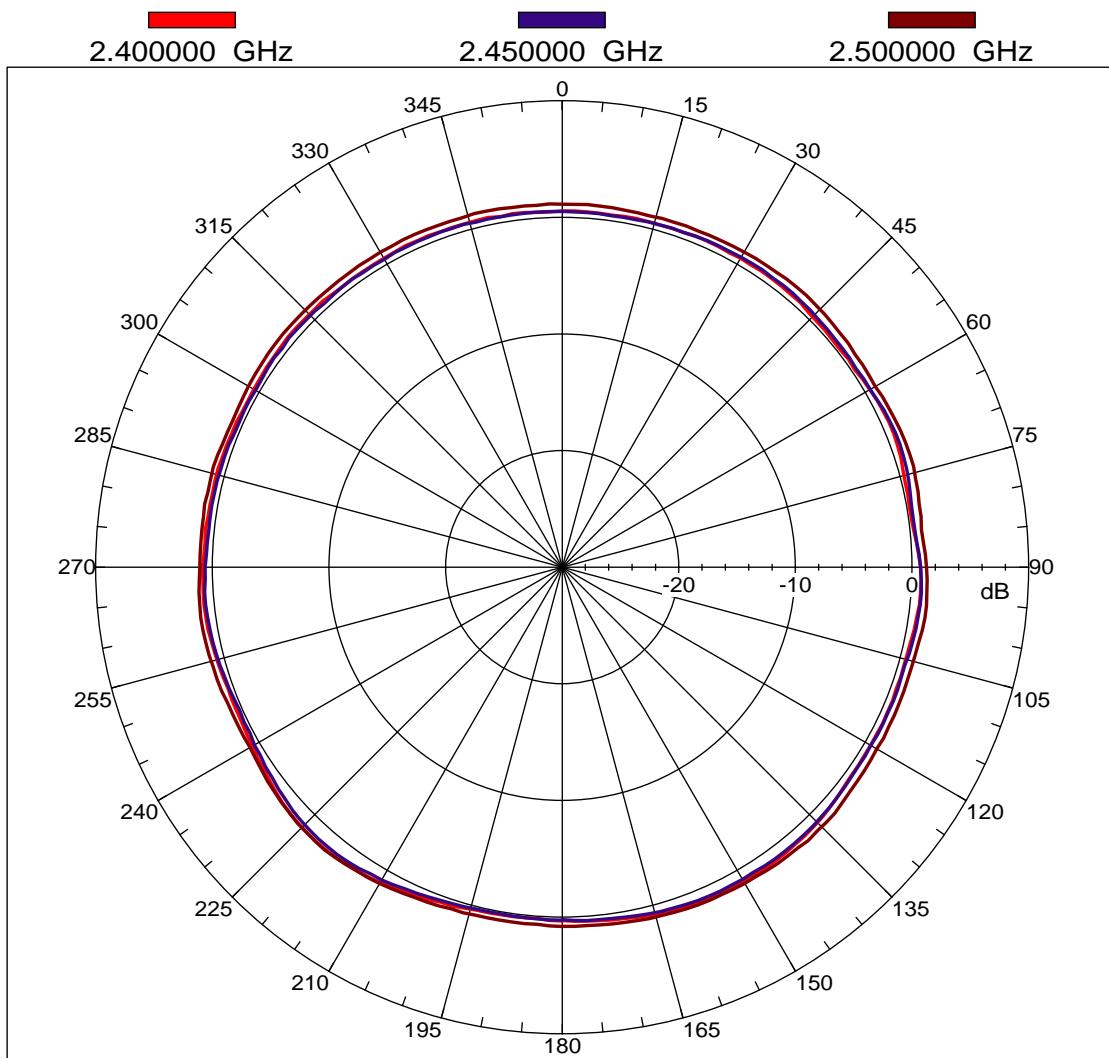
RF Antenna Assembly
P/NO : C147-510198-A SPEC : 2.4GHz



Far-field amplitude of C147-510198-A-H.nsi



Far-field amplitude of C147-510198-A-V.nsi

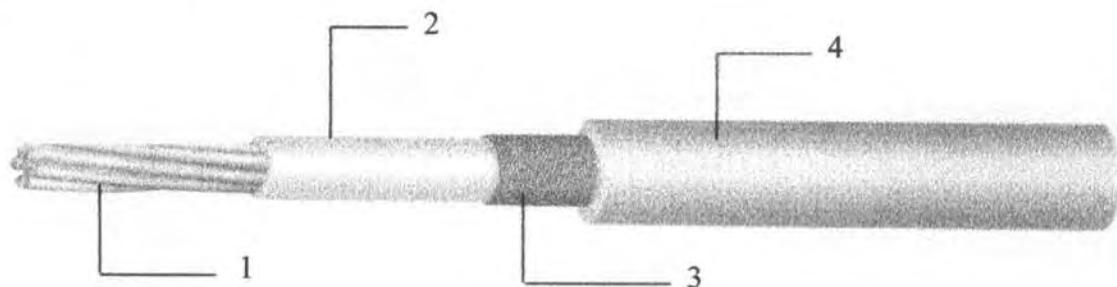


RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	1 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

I - Scope

This specification presents a FEP insulated high-frequency coaxial cable AWG 30, 1.8 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

II - Construction



Item	Unit	Details
1. Inner Conductor	Material	— CP-AG
	Composition	No./mm AWG 30 or 7 x 0.1
	Dia. (approx.)	mm 0.305
2. Dielectric	Material	Extruded FEP
	Nom. O.D.	mm 0.84 ± 0.05
	Color	Natural
3. Outer Conductor	Material	Silver coated copper
	Composition	Braided (16 / 3 / 0.1)
	Dia. (approx)	mm 1.29 ± 0.07
4. Jacket	Material	Extruded FEP
	Dia.	mm 1.80 ± 0.08
	Color	Standard color is Light Orange

Note :		MADE BY	<i>Roche Lin</i>
		APPROVALS	<i>Shen Bin chao</i>

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	2 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

III – Characteristics

Item	Unit	Specified Value	Note
Temperature Rating	°C	-55 ~ +200	
Voltage Lasting	V	1000	
Dielectric strength	—	Dielectric core: No breakdown at AC 3 kv for 0.2 sec.	Spark test
		Jacket: No breakdown at AC 3 kv for 0.2 sec.	Spark test
Characteristic Impedance	Ω	50 ± 2	TDR method
Capacitance	pF / ft	29.4	
Attenuation. (Max.)	dB/100ft	16.0	100.0 MHz
		33.0	400.0 MHz
		52.0	1.0 GHz
		94.0	3.0 GHz
Approx. Weight	g / m	7.68	

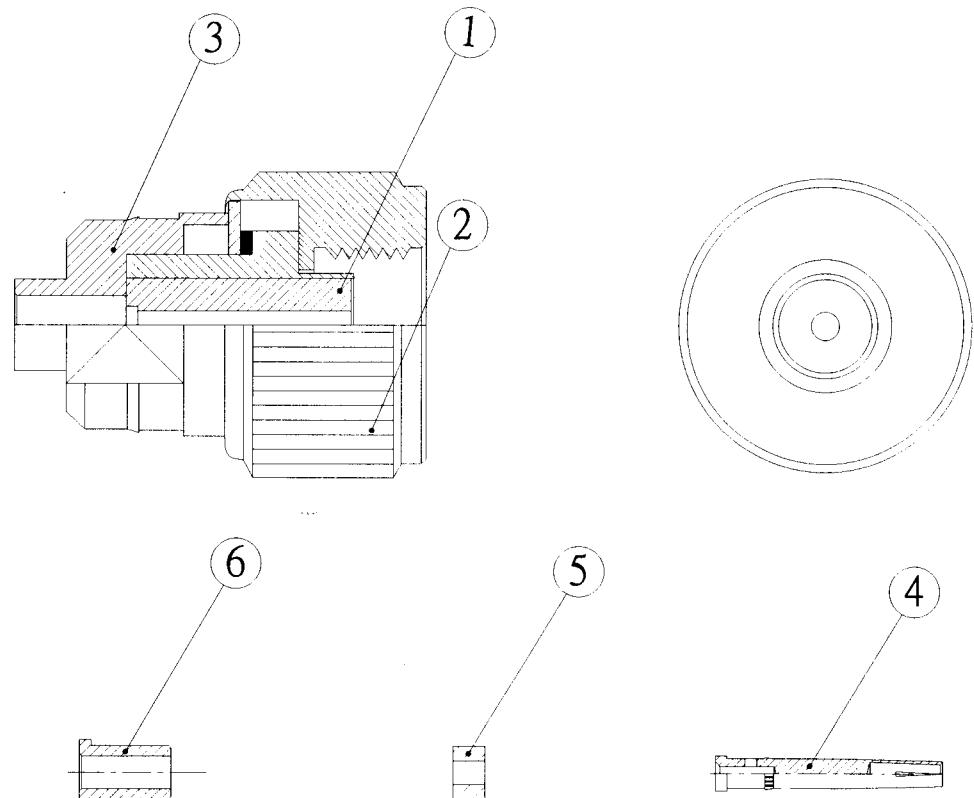
Note :		MADE BY	<i>Poche Lin</i>
		APPROVALS	<i>Shen Bin Chao</i>



譁裕實業股份有限公司
WHA YU INDUSTRIAL CO., LTD
Connector 材質證明書

譁裕料號 Whayu P/N	100-2001069-AZ	產品名稱 Product Name	Big SMA Plug Reverse Straight For RG-178
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結構圖面



材質成份

表面處理

1	絕緣	Teflon	PTFE						N/A
2	外殼	Brass	Cu	Pb	Fe	Fe+Sn	Zn		電著
3	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍金
4	中心針	Phosphor Bronze	Cu	Sn	P	Zn	Pb		鍍金
5	絕緣	Teflon	PTFE						N/A
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳

Remark :

請蓋公司章

SGS Test Report

Product : RF Antenna

Contents

No	Description		Report No.	Page
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2	Antenna Body Antenna Head Cap	TPE EL-550	CE/2004/C2040	P.13~15
3	Antenna Base	PC -110	KE/2005/41718 SZTYR041023786/LP	P.16~17
4	Rivet	POM ; Black	CE/2005/50700	P.18~21
5	Connector	SMA Plug Reverse	GZSCR041250485/LP	P.22
6	Ground Tube	Ni Plated + POM	CE/2005/96122 CE/2005/96120 CE/2005/96111	P.23~30

Result for RoHS : PASS



Test Report

Report No. : CE/2004/C1640

Date : 2004/12/16

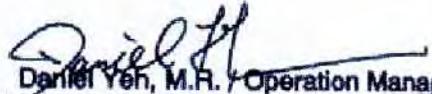
Page : 1 of 3

The following merchandise was (were) submitted and identified by the client as :

Type of Product : RG-178 B/U SERIES
Sample Received : 2004/12/09
Testing Date : 2004/12/09 TO 2004/12/16

=====

Test Result : - Please see the next page -


Daniel Yeh, M.R. - Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Report No. : CE/2004/C1640

Date : 2004/12/16

Page : 2 of 3

Test Result

PART NAME NO.1 : TRANSPARENT FEP JACKET(PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			
PBDEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			

NOTE• •(1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

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Test Report

Report No. : CE/2004/C1640

Date : 2004/12/16

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SGS TAIWAN LIMITED

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Test Report

DSM ENGINEERING PLASTICS.

Report No. : CE/2004/C2040

Date : 2004/12/17

Page : 1 of 3

The following merchandise was (were) submitted and identified by the client as :

Type of Product : EL550

Sample Received : 2004/12/10

Testing Date : 2004/12/10 TO 2004/12/17

=====

Test Result : - Please see the next page -


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Signed for and on behalf of
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Test Report

DSM ENGINEERING PLASTICS.

Report No. : CE/2004/C2040

Date : 2004/12/17

Page : 2 of 3

Test Result

PART NAME NO.1

: WHITE PLASTIC PELLETS(PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			
PBBEs(PBDEs)(Polybrominated biphenyl ethers)	%	With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.			

Test Item (s):	Unit	Method	MDL	Result			
				No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.			

NOTE : (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

DSM ENGINEERING PLASTICS.

Report No. : CE/2004/C2040

Date : 2004/12/17

Page : 3 of 3



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TEST REPORT

REPORT NO. KE/2005/41718

DATE: 2005/4/29

PAGE: 1 OF 1

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS :

CLIENT : CHI MEI CORPORATION..
PRODUCT DESCRIPTION : POLYCARBONATE(AS ATTACHED SAMPLE CARD).
COLOR : NATURAL.
STYLE/ITEM NO. : WONDERLITE® PC-110.
TESTING DATE : 2005/04/25 TO 2005/4/29
SAMPLE RECEIVED : 2005/04/25.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET.LMT	RESULT
CADMIUM	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT EN1122, METHOD B:2001	2	n.d.
CHROMIUM VI	ppm	ANALYSIS BY US EPA 7196A WITH ADVANCE TREATMENT US EPA 3060A	2	n.d.
MERCURY	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3052	2	n.d.
LEAD	ppm	ANALYSIS BY ICP-AES WITH ADVANCE TREATMENT US EPA 3050B	2	n.d.
PBBs	%	WITH REFERENCE TO 83/264/EEC. ANALYSIS WAS PERFORMED BY GC/ECD/MS OR HPLC/DAD/MS	0.0005	n.d.
PBDEs	%	WITH REFERENCE TO 83/264/EEC. ANALYSIS WAS PERFORMED BY GC/ECD/MS OR HPLC/DAD/MS	0.0005	n.d.

NOTE : n.d. = not detected.

<END>



George Huang / Supervisor
Sign for and on behalf of
SGS Taiwan Limited

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SGS**Test Report**

No.: SZTYR041023786/LP

Date: OCT 14, 2004

Page 1 of 1

CHUNG SUNG COLOURS LIMITED
 YU WU INDUSTRIAL AREA,
 DONGCHENG TOWN, DONGGUAN CITY,
 GUANGDONG PROVINCE, CHINA

Report on the submitted sample said to be P538 (50L), P518 (900L), P548 (7550), P558 (880)

Sample Receiving Date : OCT 12, 2004

Testing Period : OCT 12, 2004 TO OCT 14, 2004

Test Requested : To determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - with reference to EPA Method 3050B: 1996 / other acid digestion.
 Cadmium content - with reference to EN1122: 2001 method B / other acid digestion.
 Mercury content - with reference to EPA Method 3052: 1996 / other acid digestion.
 Hexavalent Chromium content - with reference to EPA Method 3060A: 1996 / other wet digestion.
 Analysis was performed by Atomic Absorption Spectrometer (AAS) and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Results**Black powder**

Lead Content (mg/kg)	< 2
Cadmium Content (mg/kg)	< 2
Mercury Content (mg/kg)	< 2
Hexavalent Chromium Content (mg/kg)	< 2

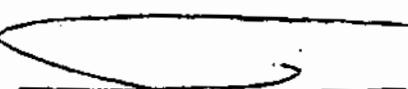
Note: - < = Less Than

- ppm = mg/kg

- Results shown are of the total weight of dry sample.

*** End of Report ***

Signed for and on behalf of
 SGS-CSTC Ltd.


 Yuan Juhua, Lucy
 Supervisor



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SZL 280070

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 電話: +86-755-3114388 | 電郵: 3106150 | 83116534 | sgs_china@sgs.com

Test Report

REN-YUH ENTERPEISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN, R. O. C.

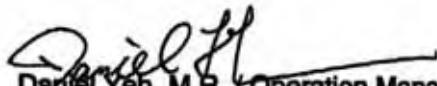
Report No. : CE/2005/50700
Date : 2005/05/12
Page : 1 of 4

The following merchandise was (were) submitted and identified by the client as :

Type of Product : BLACK POM
Sample Received : 2005/5/5
Testing Date : 2005/5/5 TO 2005/05/12

=====

Test Result : - Please see the next page -



Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Report

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NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN, R. O. C.

Report No. : CE/2005/50700
Date : 2005/05/12
Page : 2 of 4

Test Result

PART NAME NO.1 : BLACK PLASTIC PELLETS (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
			No.1	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Dibromobiphenyl	%		0.0005	N.D.
Tribromobiphenyl	%		0.0005	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.
Pentabromobiphenyl	%		0.0005	N.D.
Hexabromobiphenyl	%		0.0005	N.D.
Heptabromobiphenyl	%		0.0005	N.D.
Octabromobiphenyl	%		0.0005	N.D.
Nonabromobiphenyl	%		0.0005	N.D.
Decabromobiphenyl	%		0.0005	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.
Total PBBEs (PBDEs)(Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.

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REN-YUH ENTERPEISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN, R. O. C.

Report No. : CE/2005/50700
Date : 2005/05/12
Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE : (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " - " = No Regulation

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Test Report

REN-YUH ENTERPEISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN, R. O. C.

Report No. : CE/2005/50700
Date : 2005/05/12
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电镀黑 SGS 33002
电镀灰

Test Report

No. GZSCR041250485/LP

Date: DEC 24, 2004

Page 1 of 1

HWANG CHIANG ELECTRONICS FACTORY
LANG XIA NO.3 INDUSTRY, SONGGANG, BAOAN, SHENZHEN

Report on the submitted sample said to be 黑色镀层

SGS Ref No. : SZ041215896EC
Buyer : SONY
Manufacture/Supplier : HWANG CHIANG
Sample Receiving Date : DEC 20, 2004
Testing Period : DEC 20, 2004 TO DEC 24, 2004

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - With reference to EPA method 3050B: 1996 .
Cadmium content - With reference to BS EN1122: 2001 method B .
Mercury content - With reference to EPA 3052: 1996 .
Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992 .
Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma
Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.

RESULTS

Lead Content (Pb)
Cadmium Content (Cd)
Mercury Content (Hg)
Hexavalent Chromium Content [Cr(VI)]

Black liquid
N.D.
N.D.
N.D.
N.D.

Note : - N.D. = Not Detected (< 2 ppm)
- ppm = mg/kg

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

He Xiaoyan, Jane
Tech. Manager

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Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96122
Date : 2005/10/05
Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

Type of Product : 金色金屬-銅素材
Sample Received : 2005/09/28
Testing Date : 2005/09/28 TO 2005/10/05

=====

Test Result

PART NAME NO.1 : GOLDEN COLORED METAL (PLEASE REFER TO
THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	60.8
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	31977.7

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96122
Date : 2005/10/05
Page : 2 of 2



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Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96120
Date : 2005/10/05
Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

Type of Product : 銀色金屬-鍍鎳
Sample Received : 2005/09/28
Testing Date : 2005/09/28 TO 2005/10/05

=====

Test Result

PART NAME NO.1 : SILVER COLORED METAL (PLEASE REFER TO
THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result
				No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	42.0
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	34463.3

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit


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Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96120
Date : 2005/10/05
Page : 2 of 2



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Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

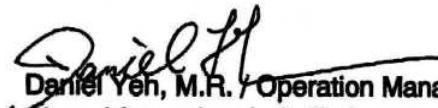
Report No. : CE/2005/96111
Date : 2005/10/04
Page : 1 of 4

The following merchandise was (were) submitted and identified by the client as :

Type of Product : WHITE POM
Sample Received : 2005/09/27
Testing Date : 2005/09/27 TO 2005/10/04

=====

Test Result : - Please see the next page -



Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96111
Date : 2005/10/04
Page : 2 of 4

Test Result

PART NAME NO.1 : WHITE PLASTIC (PLEASE REFER TO THE PHOTO ATTACHED)

Test Item (s):	Unit	Method	MDL	Result	
				No.1	
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	
Dibromobiphenyl	%		0.0005	N.D.	
Tribromobiphenyl	%		0.0005	N.D.	
Tetrabromobiphenyl	%		0.0005	N.D.	
Pentabromobiphenyl	%		0.0005	N.D.	
Hexabromobiphenyl	%		0.0005	N.D.	
Heptabromobiphenyl	%		0.0005	N.D.	
Octabromobiphenyl	%		0.0005	N.D.	
Nonabromobiphenyl	%		0.0005	N.D.	
Decabromobiphenyl	%		0.0005	N.D.	
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	
Dibromobiphenyl ether	%		0.0005	N.D.	
Tribromobiphenyl ether	%		0.0005	N.D.	
Tetrabromobiphenyl ether	%		0.0005	N.D.	
Pentabromobiphenyl ether	%		0.0005	N.D.	
Hexabromobiphenyl ether	%		0.0005	N.D.	
Heptabromobiphenyl ether	%		0.0005	N.D.	
Octabromobiphenyl ether	%		0.0005	N.D.	
Nonabromobiphenyl ether	%		0.0005	N.D.	
Decabromobiphenyl ether	%		0.0005	N.D.	
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	

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Test Report

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NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96111
Date : 2005/10/04
Page : 3 of 4

Test Item (s):	Unit	Method	MDL	Result	
				No.1	
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " - " = No Regulation

Test Report

REN-YUH ENTERPRISE CO., LTD.
NO. 3, LANE 36, DONG-SHUN ST., SHE-LIN, TAIPEI,
TAIWAN

Report No. : CE/2005/96111
Date : 2005/10/04
Page : 4 of 4



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S42

未使用有害物質保證書

Release Date : 2005/9/16

Version : 1.5

(Unused Harmful Substance Guarantee)

茲提出此保證書，保證本公司所生產或代理提供之產品不含有附錄中禁用之各項有害物質／符合附錄中各項有害物質之用量限制。

Provided this Guarantee Letter to ensure our manufacture / represent products without appendix harmful substance.

中磊料號 (SerComm P/N)	供應商料號 (Vendor P/N)	中磊料號 (SerComm P/N)	供應商料號 (Vendor P/N)
	C147-510198-A		

如經檢驗發現所述不實，願負責賠償中磊電子股份有限公司之所有損失。

If any outside the limits of the practical after test and verify, Company shall indemnify SerComm all losses, damages and the associated expenses and costs no matter how much incurred.

立保證書 (Submit by)

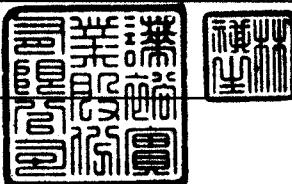
公司名稱 (Company) : 謹裕實業股份有限公司

負責人 (Chairman) : 林祺生

地址 (Address) : 新竹市公道五路二段 326 號

電話 (Telephone) : 03-5714225

簽章 (Autographed seal) :



此致

中磊電子股份有限公司

西元 2005 年 10 月 14 日

附件 (Appendix)：禁用物質 (Prohibited Substances in Products)

Substances	For Device	For Packing
	Criteria Level A	Criteria Level B
Mental		
Cadmium and Cadmium Compounds	100 ppm	100 ppm
Hexavalent Chromium Compounds	1000 ppm	100 ppm
Lead and Lead Compounds	1000 ppm (PVC Cables < 300ppm)	100 ppm
Mercury and Mercuey Compounds	1000 ppm	100 ppm
Tributyl Tin Oxide (TBTO)	Intentionally added	
Tributyl Tin (TBT) and Triphenyl Tin (TPT)	Intentionally added	
Halogenated organic compounds		
Polybrominated Biphenyls (PBBs)	1000 ppm	
Polybrominated Diphenylethers (PBDEs)	1000 ppm	
Polybrominated Biphenyls (PCBs)	Intentionally added	
Polychlorinated Naphthalenes (more than 3 chlorineatoms)	Intentionally added	
Short Chain Chlorinated Paraffins	Intentionally added	
Others		
Asbestos	Intentionally added	
Azo Colorants	Intentionally added	
Ozone Depleting Substances	Intentionally added	
Radioactive Substances	Intentionally added	



中基電子股份有限公司
SERCOMM CORP.
新竹公司：台北公司：
340新竹科學園區南區經國路21號3樓
3F, No. 21, Yehl Rd., Hsin-Chu,
115 Taipei, Taiwan, R. O. C.
(南港軟體工業園區SOHO)
Mian-Li 356, Taiwan, R. O. C. No. 3-1, Yuan-Qi St., Nei-Lang
TEL: 886-37-583879(Esp.) FAX: 886-37-583000(Taipei 115, Taiwan, R. O. C.)
<http://www.sercosim.com/NanKangSoftwareIndustryPark>

Date:	2005.10.14		
Supplier Company Name (供應商名稱) :	譯裕實業股份有限公司	Sercomm Product Name (中品名) :	
Supplier Product Name (供應商品名) :	RF Antenna Assembly	Sercomm Product Part# (中物料號) :	
Supplier Product Part Number (供應商料號) :	C147-510198-A		
Product Total Mass (產品總重) (g) :	19.60		
Contact Name (聯絡人姓名) :	陳世忠		
Division and Title (單位與職稱) :	研發處/副總		
Material/Substance Category Name	ICP TEST Results (ppm)	Material Substance Mass(g)	RoHS Criteria
Asbestos (石綿)	0	0	Intentionally added
Azo Colorants (偶氮化合物, 著色劑)	0	0	Intentionally added
Cadmium and Cadmium Compounds	77.29323308	0.00008142260	100 ppm
Hexavalent Chromium/Hexavalent Chromium Compounds	0	0	1000 ppm
Lead and Lead Compounds	49955.6391	0.04298870289	1000 ppm (PVC Cables < 300ppm)
Mercury and Mercuey Compounds	0	0	1000 ppm
Ozone Depleting Substances (臭氧破壞物質)	0	0	Intentionally added
Polybrominated Biphenyls (PBBs) (多溴聯苯)	0	0	1000 ppm
Polybrominated Diphenylethers (PBDEs) (多溴二苯醚)	0	0	1000 ppm
Polybrominated Biphenyls (PCBs) (多氯聯苯)	0	0	Intentionally added
Polychlorinated Naphthalenes(cl>3) 多氯化萘	0	0	Intentionally added
Radioactive Substances (輻射物質)	0	0	Intentionally added
Short Chain Chlorinated Paraffins (短鏈氯化石蠟)	0	0	Intentionally added
Tributyl Tin Oxide (TBTO) 三丁基氧化錫	0	0	Intentionally added
Tributyl Tin (TBT) and Triphenyl Tin(TPT) 三丁基錫與三	0	0	Intentionally added

Remark: 1. When ICP Test Result is N.D.(Not Detected), put "0" into column.
 2. Intentionally ADDed, put on the concentration values.
 3. NON-intentionally ADDed, put "0" into column.
 4. The Criteria for p