



規格承認書  
Specification for Approval

客 戶：永 洋  
Customer  
品 名： 2.4GHz 2dBi ANTENNA BLACK  
Part name  
料 號： GY111HT467-006  
Part No.  
客戶料號： 11320Y11060A1  
Customer Part No.  
Rev.(版本): 01

客戶承認印 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR
Approval No.		
Model		
Part No.		

CHIEF	SALES	R&D	DESIGN
Andy	Teri Tseng	Tammy	River
Date: 2010/10/08		Date: 2010/10/08	
<b>驊 陸 科 技 股 份 有 限 公 司</b> <b>WIESON TECHNOLOGIES CO., LTD.</b>			



**WIESON**  
TECHNOLOGIES  
CO., LTD.

**SPECIFICATION LIST**

TYPE OF PRODUCT

ANTENNA

ITEM	INDEX	PAGE
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				Approvals	
Rev	Date	Description	Edited by	Prepared :	River
01	2010/10/08	ISSUE	River	Checked :	Tammy
			River	Approved :	Andy
				Issued No :	
				Sheet :	<b>1 OF 16</b>

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WIESON TECHNOLOGIES CO., LTD.

**ROHS Compliant**

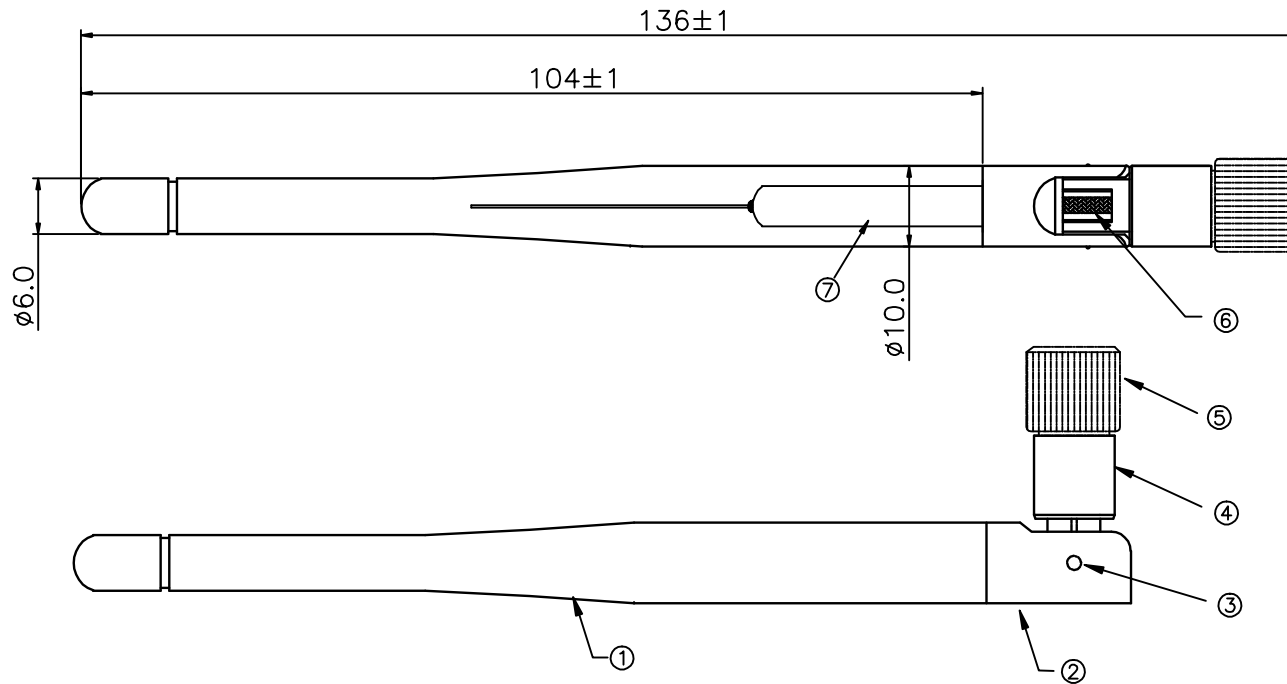
REV	DATE	DESCRIPTION	ECN NO.	NAME
01	10.08.13	NEW RELEASE		

A

B

C

D



**NOTES:**

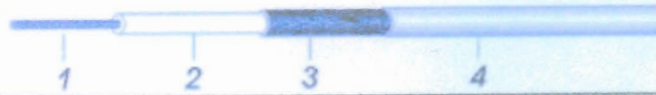
1. 2.4~2.5GHz VSWR:< 2.0
2. GAIN:2dBi
3. USE ENVIRONMENT PROTECT MATERIAL(ROHS Compliant).

⑨			
⑧	GPB-EA18204XX	PE BAG,180*200mm,50PCS OF A BAG	1/50
⑦	G0140-1201012	COPPER TUBE,TINNED PLATED,φ4.4*24.5mm	1
⑥	GMINI-178B01D137S	1.37mm COAXIAL CABLE,30AWG*1C+BRAID+FEP,BLACK JACKET,OD:1.37mm	1
⑤	SMA	SMA MALE(RP),SHELL:BLACK POM	1
④	GY111-B030100A	BASE-2,PC:BLACK	1
③	G0102-7801013	FIXED PIN,POM:BLACK	2
②	BASE-1	BASE-1,PC:BLACK(DS-418)	1
①	COVER	COVER,TPE:BLACK(DS-417)	1
NO.	ITEM	DESCRIPTION	QTY

WIESON TECHNOLOGIES CO., LTD WIESON		PART NO.: GY111HT467-006	
TITLE: 2.4GHz SMA Antenna			
DRAWN BY	River (WSC)	DRAWING NO.	GY111HT467-006
CHECKED BY		DRAWING SIZE	A4
APPROVED BY		UNIT	mm
SORTING NO.	WSC	PAGE	1 OF 1



## 1.37



型号 TYPE	1.37 (TX)
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### 结构 Structure

1	内导体 Inner conductor	Cu-silverplated
	Ømm	7/0.102±0.008
2	绝缘体 Dielectric	FEP
	Ømm	0.9±0.03
3	编织层 Braid conductor	Tinned Copper
	mm	16×5/0.05±0.008
4	护套 Jacket	FEP
	Ømm	1.38±0.10

### 电性能参数 Electrical Characteristics

电容 Capacitance(pF/m)	95
阻抗 Impedance(Ω)	50±2.0
速率 Velocity(%)	70
弯曲半径 Bending radius(mm)	10
最大承受电压	1000
Max.oper.voltage(VMS)	
最大工作频率	6000
Max.oper.frequency(MHz)	
工作温度范围	-55 to +150
Operating Temp. (°C)	

### 衰减(典型值) Attenuation(Typical)(→dB/m)

频率 Frequency	Cable+接头
1 GHz	1.7
2 GHz	2.4
3 GHz	3.0
4 GHz	3.6
5GHz	4.0
6 GHz	4.4

### 应用 Application

应用于高频传输，特别是发报机、接收器、电脑、无线电设备、视频信号、射频信号传输。同轴电缆保证各式机械、热力、电子设备中能达到GHz高频层次的应用。

Coaxial cables are used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions. The varied mechanical, thermal and electronic properties of Coaxial cables mean that they can be used up into the GHz levels, as pes cable type.

## Panlite L-1250Z 100

Category	Unit	Test Method	Condition	L-1250Z 100
Melt volume flow rate	cm <sup>3</sup> /10min	ISO 1133	300deg.C load 1.2kg	8
Density	kg/m <sup>3</sup>	ISO 1183	-	1200
Water absorption rate	%	ISO 62	in water 23deg.C 24h	0.2
Light transmission	%	ASTM D 1003	thickness 3mm	88
Refractive index	-	ASTM D 542	-	1.585
Tensile modulus	MPa	ISO 527-1 and ISO 527-2	1mm/min	2400
Tensile stress at yield	MPa		50mm/min	61
Tensile strain at yield	%		50mm/min	6
Nominal tensile strain at break	%		50mm/min	>50
Flexural modulus	MPa	ISO 178	2mm/min	2350
Flexural strength	MPa		2mm/min	93
Charpy impact strength	kJ/m <sup>2</sup>	ISO 179	unnotched	NB
			notched	76
Heat deflection temperature	deg.C	ISO 75-1 and ISO 75-2	1.80MPa	129
			0.45MPa	142
Vicat softening temperature	deg.C	ISO 306	50deg.C/h 50N	149
Mold shrinkage	%	In-house method	parallel	0.5-0.7
			vertical	0.5-0.7
Coefficient of linear expansion	×10 <sup>-4</sup> /k	ISO 11359-2	parallel	0.7
			vertical	0.7
Specific inductive capacity	-	IEC 60250	100Hz	3.1
	-		1MHz	3
Dielectric loss tangent	×10 <sup>-4</sup>	IEC 60250	100Hz	10
	×10 <sup>-4</sup>		1MHz	90
Volume resistivity	ohm-m	IEC 60093	-	>1×10 <sup>13</sup>
Surface resistivity	ohm	IEC 60093	-	>1×10 <sup>15</sup>
Withstand voltage	MV/m	IEC 60243-1	short time test	30
Tracking resistance	-	IEC 60112	-	250
Flammability	-	UL 94	-	V-2(0.40mm) HB(1.5mm)
Temperature index	deg.C	UL 746B	electric 1.47mmt	125
			impact 1.47mmt	115
			non-impact 1.47mmt	125

\* The values listed are specification values, not certified values.

PEEK 材質記明



70-1 HWACHI-DONG, YEOSU-SI, JEOLLANAM-DO. KOREA HTTP://WWW.CHEMTECH.COM

Fax : (061)680-8070

Tel : (061)680-1669,1594

### CERTIFICATE OF ANALYSIS

Customer	YOSON INTERNATIONAL CO.,LTD			
Product/Grade	Lot No.	Quantity(Kg)	Date of Issue	Shipment No.
PBT KEYFLEX BT1063D 25KG BAG	A7F0631	9000.000	2007.11.09	20216745

### TYPICAL VALUES

Test Item	Test Method	Remark	Unit	Spec	Results
Low Temp Imp'	ASTM D256	Izod Notched 1/4"	kg cm/cm	Min.3.0	5.9
Melt Flow Index	ASTM D1238	230°C x 2.16kg	g/10min	21.00~27.00	26.29
Shore Hardness	ASTM D2240		shore-D	59.0~64.0	60.9
Yield strength	ASTM D638	250 mm/min	kg/cm <sup>2</sup>	180~240	189
Flexural Modulus	ASTM D790	15 mm/min	kg/cm <sup>2</sup>	2800~3600	3270
DSC	LSYQAYD032		°C	211.0~217.0	213.4
Yellow Index	ASTM D1925	CIE(C,2°)YI	%	Max.50.00	23.00

WE HEREBY CERTIFY THAT ABOVE-MENTIONED TEST RESULTS ARE CORRECT AND MEET OUR SPECIFICATIONS.

YEOSU SPECIALTY POLYMERS PLANT

*Jae Seo Ko*

APPROVED BY D.H CHU  
Q.A. MANAGER

铁耐克-C® (TENAC-C®) 性能 (ASTM)

项目		测试方法 (ASTM) 单位 等级		标准等级				
				高粘度型	中等粘度型		高流动型	
				3510	4520	5520	7520	8520
比重		D 792	-	1.41	1.41	1.41	1.41	1.41
吸湿率		D 570	%	0.2	0.2	0.2	0.2	0.2
机械性能	抗拉强度	D 638	MPa	61	61	61	61	61
	延伸率	D 638	%	75	60	61	61	61
	抗挠强度	D 790	MPa	88	88	88	90	90
	抗挠系数	D 790	MPa	2600	2600	2620	2630	2630
	悬臂梁式冲击强度 (带缺口)	D 256	J/m	78	59	59	59	39
	洛氏硬度	D 785	M-scale	78	80	80	80	80
			R-scale	-	115	115	115	115
磨耗率	D 1044	mg/1000次	14	14	14	14	14	
熔流指数	D 1238	gr/10min	2.8	9	15	30	45	
热性能	线性膨胀系数	(TMA)	$\times 10^{-5} \text{cm/cm}^{\circ}\text{C}$	10	10	10	10	10
	热变形温度	D 645	$^{\circ}\text{C}(1.82\text{MPa})$	110	110	110	110	110
			$^{\circ}\text{C}(0.45\text{MPa})$	158	158	158	158	158
阻燃性	(UL 94)	-	HB	HB	HB	HB	HB	
成型收缩率	(融化成方法)	%	1.6-2.0	1.6-2.0	1.6-2.0	1.6-2.0	1.6-2.0	
特点				高抗冲击、高延伸率等级，具有较高的分子量。	标准流动等级，具有最小的注塑模垢。	与4520类似，但具有较高的流动性和最小的注塑模垢。	高流动等级，具有最小的注塑模垢。	超高流动等级，具有最小的注塑模垢。

项目		测试方法 (ASTM) 单位 等级		HC 系列		高循环等级	耐气候性等级			
				中等粘度型	高流动型	高流动型	高粘度型	中等粘度型		高流动型
				HC450	HC750	7554	3513	4513	4563	7513
比重		D 792	-	1.41	1.41	1.41	1.41	1.41	1.41	
吸湿率		D 570	%	0.2	0.2	0.2	0.2	0.2	0.2	
机械性能	抗拉强度	D 638	MPa	65	65	60	60	60	60	
	延伸率	D 638	%	60	50	50	75	55	55	
	抗挠强度	D 790	MPa	95	98	90	88	88	88	
	抗挠系数	D 790	MPa	2890	2990	2630	2600	2600	2600	
	悬臂梁式冲击强度 (带缺口)	D 256	J/m	69	59	39	69	59	59	
	洛氏硬度	D 785	M-scale	-	-	80	78	80	80	
			R-scale	-	-	115	-	115	115	
磨耗率	D 1044	mg/1000times	-	-	14	14	14	14		
熔流指数	D 1238	gr/10min	8	30	30	3	9	9		
热性能	线性膨胀系数	(TMA)	$\times 10^{-5} \text{cm/cm}^{\circ}\text{C}$	-	-	10	10	10	10	
	热变形温度	D 645	$^{\circ}\text{C}(1.82\text{MPa})$	124	124	110	110	110	110	
			$^{\circ}\text{C}(0.45\text{MPa})$	163	163	158	158	158	158	
阻燃性	(UL 94)	-	HB	HB	HB	-	-	-		
成型收缩率	(融化成方法)	%	1.6-2.0	1.6-2.0	1.5-1.9	1.6-2.0	1.6-2.0	1.6-2.0	1.6-2.0	
特点				革新共聚物，对标准等级的物理性能有所增强。	高流动等级，具有录像机卷轴所需性能。	耐气候性等级，含有紫外线吸收剂和其他添加剂，因而具有良好的耐气候性。				

- 请注意，所有的数据和数值都是用所示试验方法获得的典型结果，只能作为等级选择的基本参考，而不能作为任何形式的产品规格或保证。如有更改，恕不另行通知。
- 处理和使用之前必须阅读相关的MSDS，并一定要遵守重要注意事项。
- 铁耐克或铁耐克-C用于接触食品的用途之前，应当与旭化成联系。



# 信興產品、優質品牌、信心保證

## 產品公差說明

棒材規格	磨光棒		控制棒		擠制棒		
	直徑允許公差	不圓度, 不大于	圓, 六角, 方棒 尺寸允許偏差	矩形棒尺寸 允許偏差	圓, 六角, 方棒 尺寸允許偏差	矩形棒尺寸 允許偏差	
3	-0.02	0.005	-0.01	±0.07			
3~5	-0.04		-0.04	±0.09			
5~6	-0.04	0.006	0.003	±0.11			±0.60
6~8	-0.04		-0.01 -0.04				±0.75
8~10	-0.01	0.007	-0.01 -0.04	±0.14	±0.45	±0.90	
10~15	-0.04		-0.01 -0.05		±0.55		
15~18	-0.01	0.008	-0.01 -0.05	±0.17	±0.65	±1.05	
18~39	-0.05		-0.01 -0.05				±0.80
18~30	-0.01	0.01	-0.05	±0.371	±0.80	±1.20	
30~50			-0.05	±0.37	±0.95	±1.15	
50~80			-0.05	±1.10			
80~100	-0.06		-0.05				

## 產品化學成份、性能及用途

牌號	元素	Cu	Pb	Al	Fe	Sb	Bi	P	Mn	Zn	其它	性能與用途
C3601	min max	57.0 60.0	0.8 1.9	- 0.2	- 0.5	- 0.01	- 0.003	- 0.02	- -	余量	1.0	強度高, 加熱工性能好, 廣泛應用機械製造工業, 切削加工各種零件和標準件
C3602	min max	59.0 63.0	1.8 2.8	- -	- 0.5	Fe+Sn	1.2以下	- -	- -	余量	-	易切削, 塑性好, 可冷鍛, 加工表面質量優異, 刀具損耗小, 應用於計算機、鐘表、齒輪、五金零件等
C3604	min max	57.0 61.0	1.8 2.8	- -	- 0.5	Fe+Sn	1.2以下	- -	- -	余量	-	易切削, 加工表面質量好, 廣泛應用電子零件, 照相器材, 閥體, 建築材料, 汽車零件, 螺絲, 螺母等五金零件
C3605	min max	56.0 60.0	3.5 4.5	- -	-0.5	Fe+Sn	1.2以下	- -	- -	余量	-	高精度切削, 適用於精密儀表, 儀器, 五金零件等
C3771	min max	58.0 61.0	1.5 2.5	- -	- 0.30	- -	- -	- -	- -	余量	-	熱鍛性, 切削性均佳, 適用於精密鍛造, 制作閥體, 表殼, 機械零件



SHANGHAI VALQUA FLUOROCARBON PRODUCTS CO., LTD  
PROPERTIES OF PTFE PRODUCTS

MECHANICAL PROPERTIES		项目	测试值	单位	试验方法
Tensile Strength (Moulding Direction)		拉伸强度	9.8~34	MPa	ASTM D638
Elongation at Break (Moulding Direction)		伸长率	100~400	%	ASTM D638
Density		比重	2.13~2.25	—	ASTM D792
Hardness		硬度	50~55	杜罗硬度计	※ASTM D2240
Flexural Yield Strength @0.2% Offset, 23°C		弯曲强度	—	MPa	※ASTM D790
Flexural Modulus @23°C		弯曲模量	350~550	MPa	※ASTM D790
Compressive Strength @0.2% Offset, 23°C		压缩强度	7.7~11.8	MPa	※ASTM D695
ELECTRICAL PROPERTIES		项目	测试值	单位	试验方法
Dielectric Strength @Air (Tape) @Oil (Extrusion/Moulding)		绝缘强度	19.2	KV/mm	※ASTM C149
Dielectric Constant		介电常数	1.95~2.1	—	※ASTM D150
Dissipation Factor @60HZ @10 <sup>6</sup> HZ		介质损耗	<0.0002	(60HZ)	※ASTM D150
			<0.0002	(10 <sup>6</sup> HZ)	
Resistivity @Surface @Volume		表面电阻	>10 <sup>16</sup>	Ω	※ASTM D257
		体积电阻	>10 <sup>18</sup>	Ω cm	
THERMAL PROPERTIES		项目	测试值	单位	试验方法
Point of Fusion DSC		熔点	327±10	°C	ASTM D792
Max. Working Temperature		耐热温度	260	°C	—
Thermal Conductivity @Moulding Direction (MD)		导热系数	1.9	10 <sup>-6</sup> W/(m.K)	※ASTM C177
WEAR PROPERTIES		项目	测试值	单位	试验方法
Coefficient of Dynamic Friction		动摩擦系数	0.1	—	0.7MPa3M/minSTEEL

备注:上述※标记的项目是PTFE的代表数值,10mm以下直径规格不能取样,不作为日常的管理评价项目。

核准:



日期: 2005.7

制表:



日期: 2005.7



# 聚甲醛 (POM) 性能

## 综合性能

密度: 1.43  
结晶度: 75%—85%  
机械强度: 较高  
成型加工温度范围: 约10℃  
熔点: 175℃

## 机械性能

伸强度: 70 MPa  
拉伸弹性模数: 2.9 GPa  
伸长率: 15%  
压缩强度: 127 MPa  
挠曲强度: 98 MPa  
冲击强度: 108 KJ/m<sup>2</sup>

## 热性能


比密: 704 cm<sup>3</sup>/kg  
吸水率 (24h): 0.25%  
成型收缩率: 2.0%—2.5%  
马丁耐热性: 60℃—64℃  
连续耐热性: 85℃

## 电性能

介电系数 (60Hz, 10Hz) 3.7  
介电损耗 (60Hz, 10Hz) 0.004  
电阻率:  $6 \times 10^9 \Omega \text{cm}$

# 南铜实业有限公司 产品质量合格证书

编号:12-28

产品名称		铅黄铜		牌号	Hpb59-1		规格		状态	合格
化 学 成 份 % (重量)										
铜 (Cu)	铁 (Fe)	锡 (Sn)	镍 (Ni)	锑 (Sb)	铅 (Pb)	铬 (Cr)	镉 (Cd)	汞 (Hg)	铝 (Al)	锌 (Zn)
58.5~59.0	≅0.30	≅0.20	≅0.15		3.0~3.9				≅0.15	余量
力 学 性 能							备 注			
抗拉强度 N/mm <sup>2</sup>		延伸率 %		硬度值 HRB						
567.5		8		78						

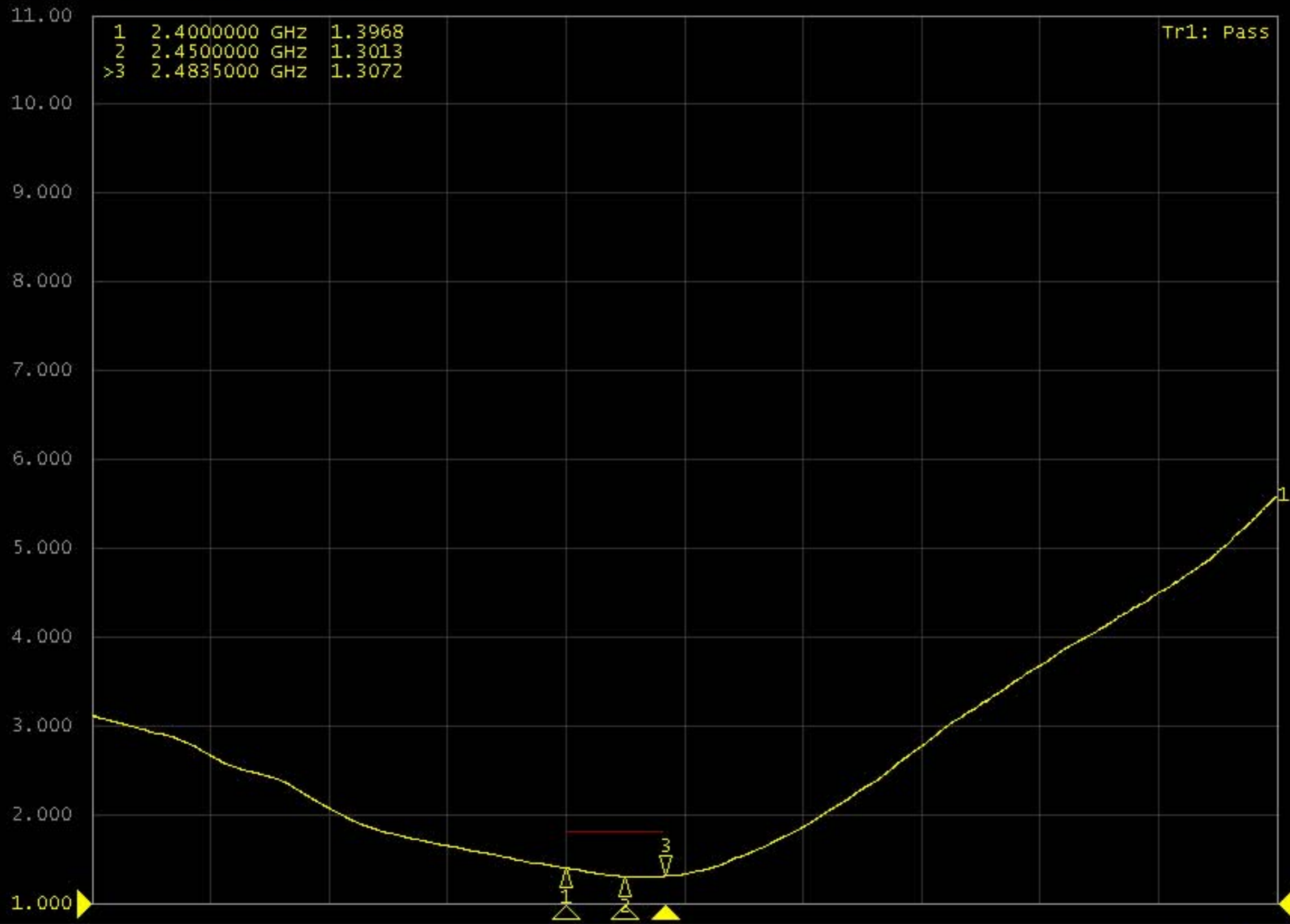
检验员:肖芬芬

质检员:阳六容

技术质量部:曾国

GY111HT467-006

▶ Tr1 S11 SWR 1.000/ Ref 1.000 [F1]



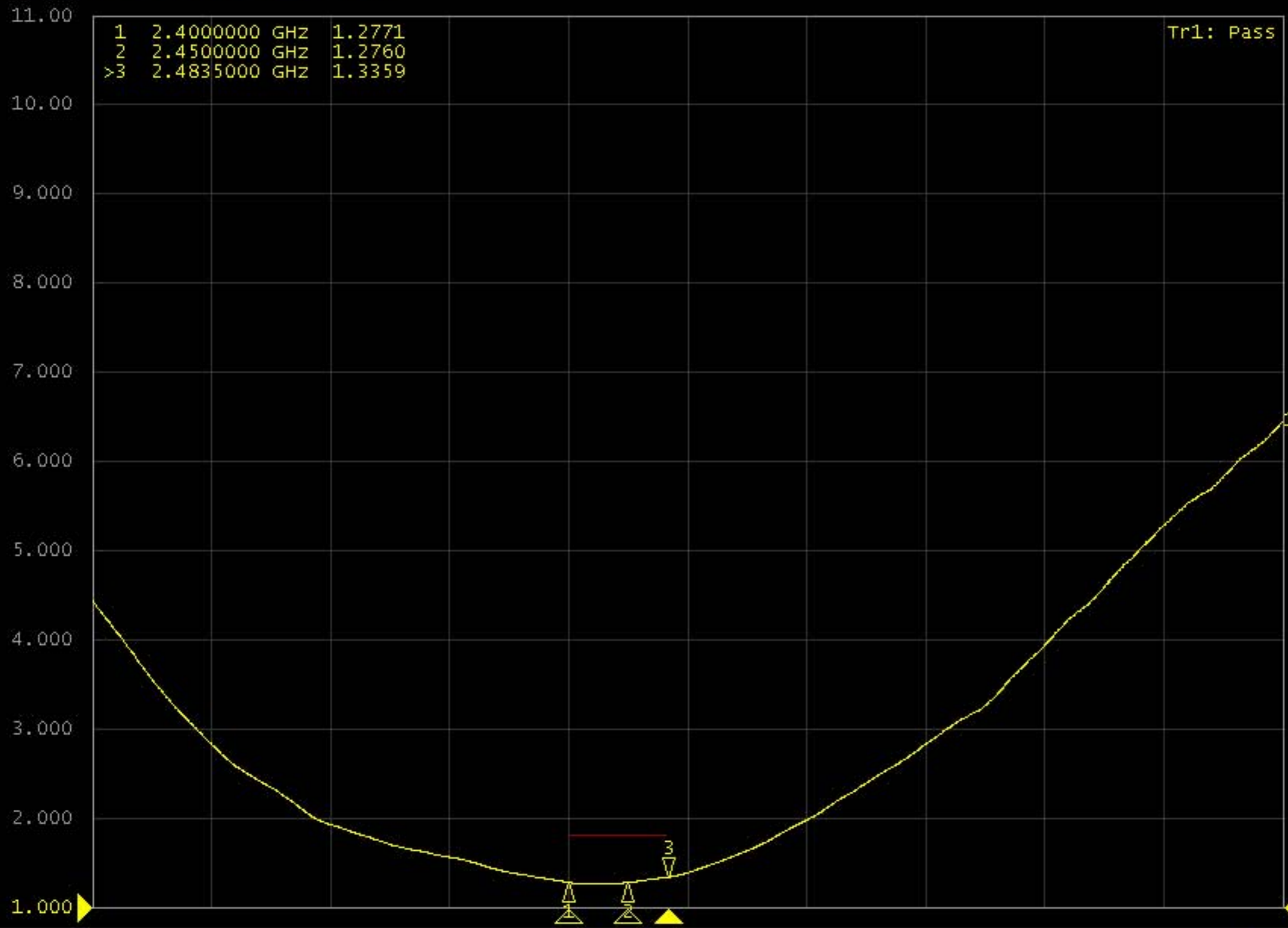
System

- Print
- Abort Printing
- Printer Setup...
- Invert Image  
 ON
- Dump Screen Image...
- Multiport Test Set Setup
- Misc Setup
- Backlight  
 ON
- Firmware Revision
- Service Menu
- Help
- Return

1 Start 2 GHz IFBW 70 kHz Stop 3 GHz Cor !

GY111HT467-006

▶ Tr1 S11 SWR 1.000/ Ref 1.000 [F1]



1 Start 2 GHz IFBW 70 kHz Stop 3 GHz Cor

System

Print

Abort Printing

Printer Setup...

Invert Image  
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Backlight  
ON

Firmware Revision

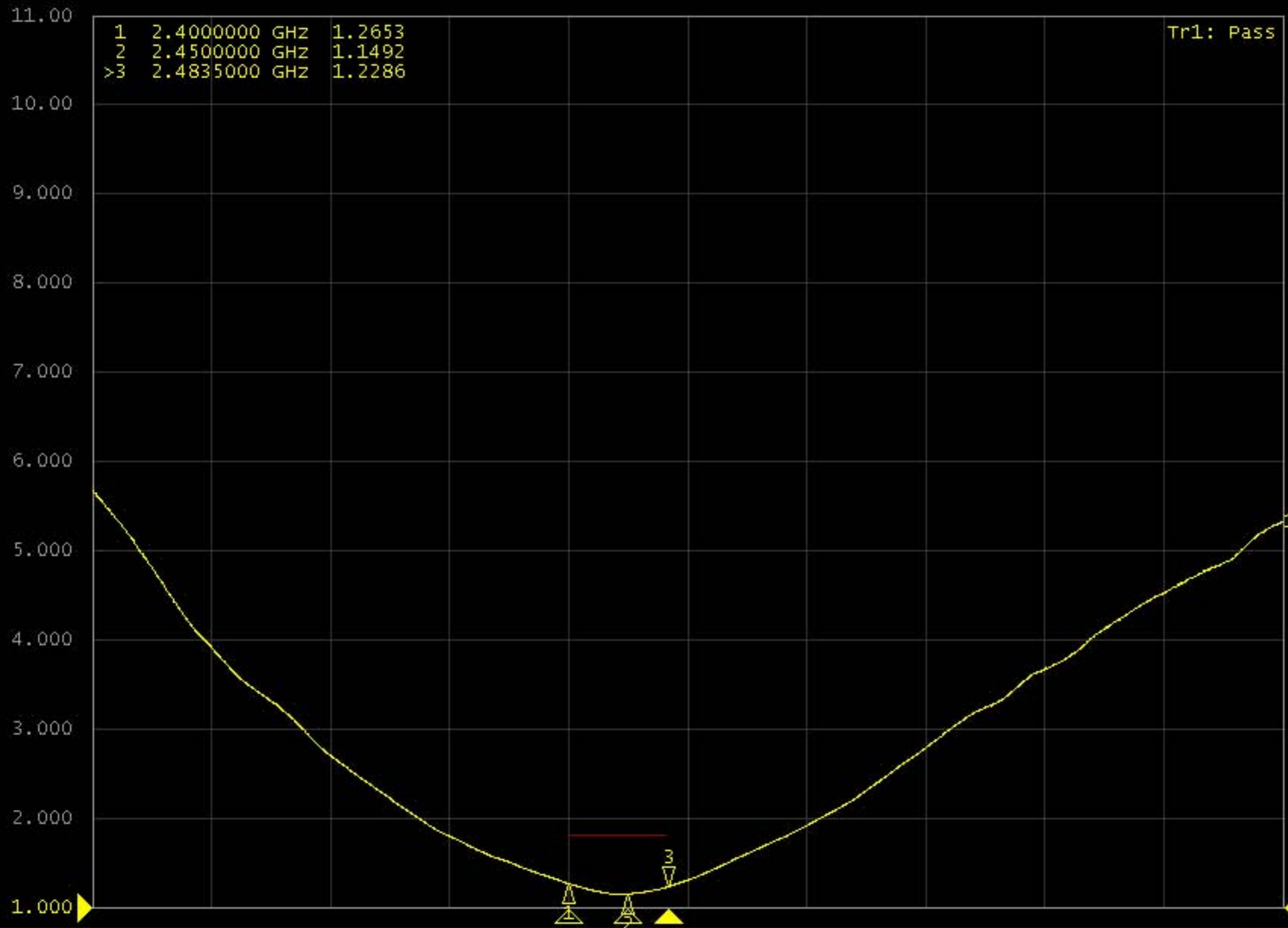
Service Menu

Help

Return

GY111HT467-006

▶ Tr1 S11 SWR 1.000/ Ref 1.000 [F1]



System

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# Advance Multimedia Internet Technology Inc.

## 限用物質承諾保證書

### Guarantee of Hazardous Substances

聯陸科技股份有限公司

供應商名稱 (Supplier's Name): WIESON TECHNOLOGIES CO., LTD

本公司特此保證：保證供應給永洋科技股份有限公司的產品滿足以下列出的有害物質限值的要求，並於製程中不使用該項物質：

We warrant that all the products supplied to Advance Multimedia Internet Technology Inc. satisfy the following threshold requirements concerning hazardous substances, and the use of these substances used in the production of supplied products are in compliance with such threshold requirements:

有害物質名稱	Name of hazardous substance	永洋針對ROHS規定 限定值 (limit for RoHS) ppm (mg/kg)	SONY SS-00259限 定值 (limit for SONY -00259) ppm (mg/kg)
鎘及其混合物	Cadmium and its compounds (Cd)	80 Solder:75ppm	Plastics/Wire 5ppm Solder:20ppm
鉛及其混合物	Lead and its compounds (Pb)	800 *鋼(steel) 3500  *鋁(aluminum) 4000  *銅(copper) 4%	Plastic/Painting/W ire 100ppm  Solder:1000ppm
汞及其混合物	Mercury and its compounds (Hg)	800	0
六價鉻及其混合物	Chromium VI and its compounds (Cr <sup>+6</sup> )	800	0
多溴聯苯(PBB)	Polybrominated Biphenyls (PBB)	800	0
多溴二苯醚	Polybromodiphenyl ether (PBDE)	800	0
鎘+鉛+汞+六價鉻	Cd+ Pb+ Hg+ Cr <sup>+6</sup>	Packaging: 80	Packaging: 100

所有乾電池及蓄電池之產品應符合以下規定：

汞及其混合物	Mercury and its compounds (Hg)	5PPM 25mg/cell	5PPM 1 PPM (供中國用的 錳電池及鹼錳電池)
鎘及其混合物	Cadmium and its compounds (Cd)	250PPM	0
鉛及其混合物	Lead and its compounds (Pb)	4,000PPM	4,000PPM

所有樣品必須依照RoHS Homogenous的定義拆解測試

Entire Specimen shall be follow the destruct testing of RoHS Homogenous.

**BUREAU VERITAS**  
Certification



## Certification

Awarded to

# WIESON TECHNOLOGIES (DONG GUAN) CO., LTD.

HUAN GANG, HOUIE TOWN, DONGGUAN CITY, GUANGDONG, P. R.CHINA.

Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

### STANDARD

## ISO 14001 : 2004

### SCOPE OF SUPPLY

DESIGNING, MANUFACTURING AND SALES OF ELECTRONIC AND AUTOMOTIVE CONNECTORS, CABLES, WIRE HARNESS, FIBER PASSIVE COMPONENTS, RF AND ANTENNA PRODUCTS, PLASTIC INJECTION, STAMPING PARTS, TOOLING MOLD.

Original Approval Date: **30 DECEMBER 2003**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until: **18 SEPTEMBER 2009**

To check this certificate validity please call: **852 - 2815 2092**

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation

*Certificate Number:* 271022 *Date:* 14 FEBRUARY 2008

Fanny Zou  
South District Manager



For Bureau Veritas Certification  
(Holding) S.A. using the  
accreditation certificate number  
008

008

MANAGING OFFICE ADDRESS:  
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2nd Floor, Tower Bridge Court  
224-226 Tower Bridge Road  
London SE1 2TX

ISSUING OFFICE ADDRESS:  
Bureau Veritas Certification (HK) Limited  
Rm 23- 25,10/F., Pacific Trade Centre,  
2 Kai Hing Road, Kowloon Bay, Kowloon,  
Hong Kong





**BUREAU VERITAS**  
Certification



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Bureau Veritas Certification certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

### STANDARD

## ISO 9001 : 2008

### SCOPE OF SUPPLY

DESIGNING, MANUFACTURING AND SALES OF ELECTRONIC AND AUTOMOTIVE CONNECTORS, CABLES, WIRE HARNESS, FIBER PASSIVE COMPONENTS, RF AND ANTENNA PRODUCTS, CAR AUDIO AND VIDEO, PLASTIC INJECTION, STAMPING PARTS, TOOLING MOLD, LED LIGHTING, HOME STERO.

Original Approval Date: **20 MARCH 2006**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until: **23 DECEMBER 2011**

To check this certificate validity please call (+86 20 8130 0800)

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation

Certificate Number: 272375      Date : 22 JANUARY 2009

Fanny Zou  
South District Manager



Certification Authority Office:  
Bureau Veritas Certification (HK) Limited  
Rm 23- 25,10/F., Pacific Trade Centre, 2 Kai Hing Road,  
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