



鴻呈電子（蘇州）有限公司

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FAX：86-512-65022997

www.vso.com.tw

CUSTOMER:

(客 户)

晶訊CC&C

CUSTOMER NO:

(客 户 料 号)

30G000077-00

(品 名 规 格)

IFA

COMPANY NO:

(公 司 料 号)

GRF1457

APPROVED NO:

(承 认 书 编 号)

201403004

SAMPLE DATE:

(送 样 日 期)

2014.3.10

REVISION:

(版 本)

X0

APPROVED BY (核 准)	AUDITING BY (审 准)	TESTED BY (确 认)

☐ THE CONDITION ACKNOWLEDGEMENT ☐ YES

(合 格)

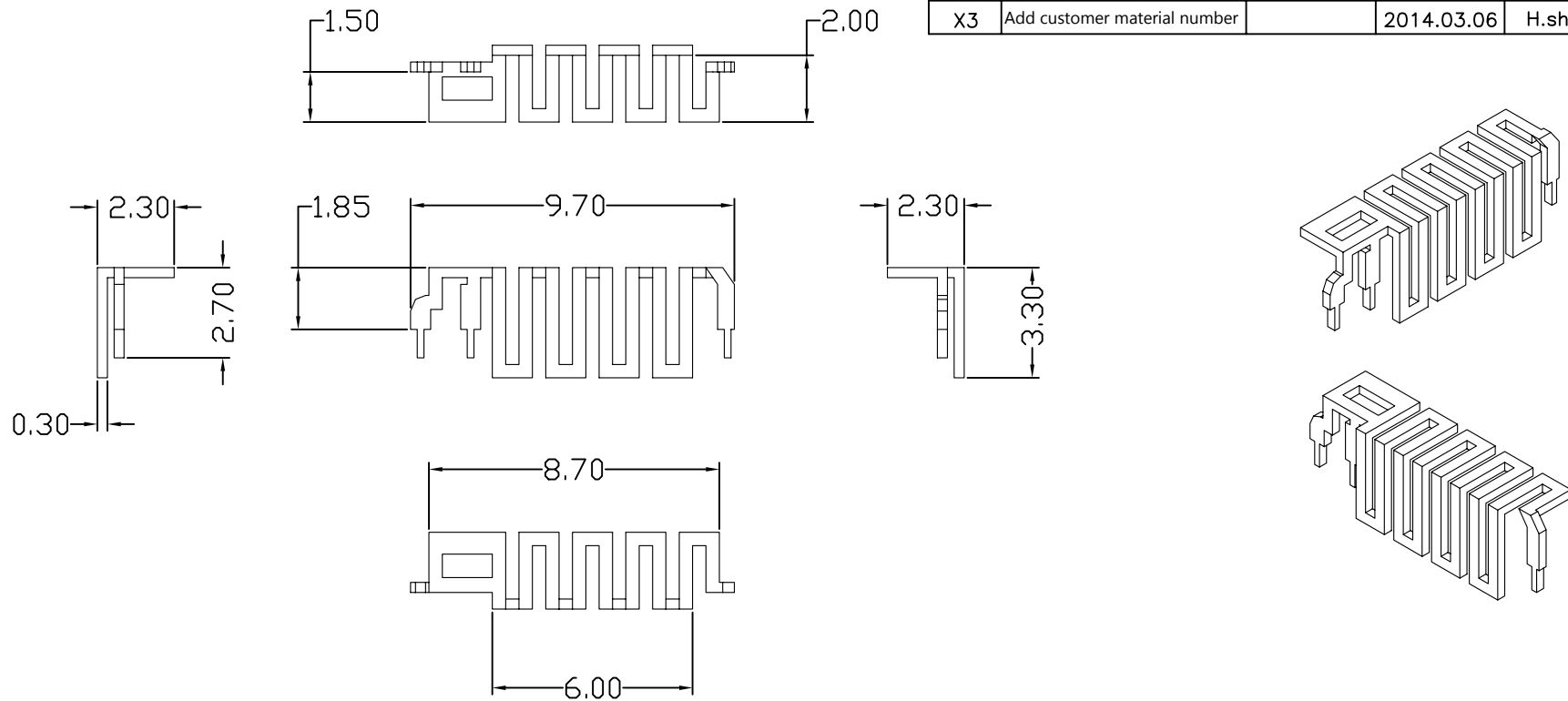
☐ NO

(不 合 格)

APPROVED BY (核 准)	AUDITING BY (审 核)	CHECKED BY (校 对)	MADE BY (制 作)
Jon	Jon	Alan	Dave

FM-E016 V.02

REVISION				
REV.	DESCRIPTION	ECN NO.	DATE	NAME
X0	NEW ISSUE		2014.02.18	H.shao Yong
X1	Changes in size of iron parts		2014.03.05	H.shao Yong
X2	Update iron parts		2014.03.05	H.shao Yong
X3	Add customer material number		2014.03.06	H.shao Yong



Processing requirements:

1. No burrs on the edges and no oxidation on the surface
2. Material: 0.3mm white copper or other materials
3. Comply with ROHS

备注 Remark	※ Tolerances are not marked, please refer to the following example standards.									
	發行 issued	TOLERANCE UNLESS OTHERWISE SPECIFIED								
	CLASS	A	B	C	D	E	F			
	< 8mm	0.05	0.1	0.1	0.2	0.2	0.4			
	8 ~ 25mm	0.08	0.15	0.15	0.3	0.3	0.6			
	25 ~ 80mm	0.12	0.2	0.25	0.4	0.5	0.8			
	80 ~ 250mm	0.25	0.3	0.4	0.6	0.8	1.2			
	250 ~ 800mm	0.5	0.6	0.8	1.0	1.5	2.0			
	> 800mm	1.0	1.0	1.5	1.7	3.0	4.0			
	ANGLE	0.5								
	Units	MM	Rev.	A1						
	Size	A4	Scale	5:1						
	Sheet	PAGE								

RoHS COMPLIANT			
CUST.PN: CC&C (30G000077-00)		DRAW.:	
TITLE: WIFI Antenna		ENGIN.:	
VSO PN: N-821-304-99990200		CHECK.:	
UNITS mm	DWG. NO.: GRF1457	REV. X3	APPR.:

4

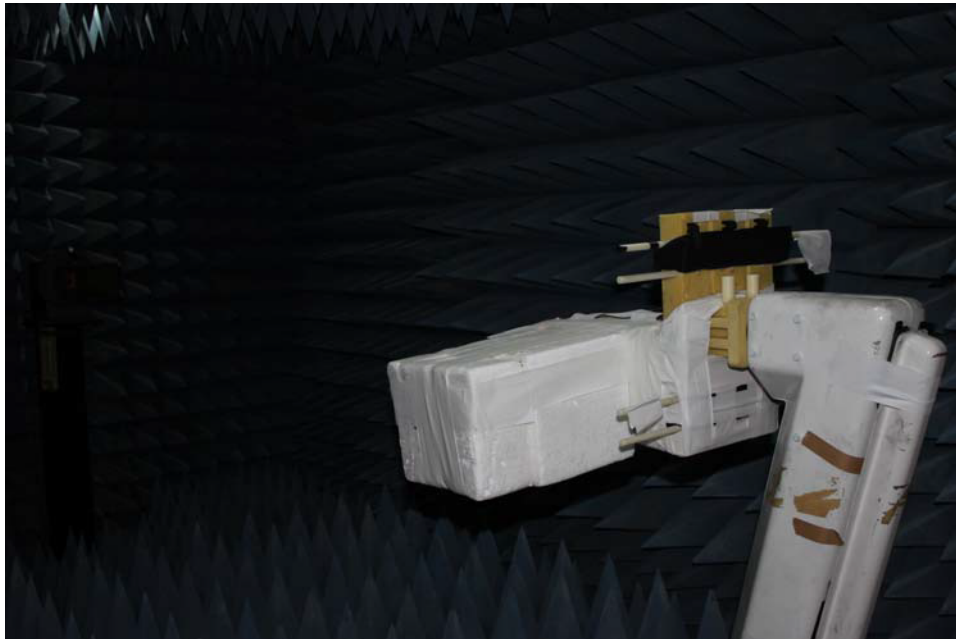
3

2

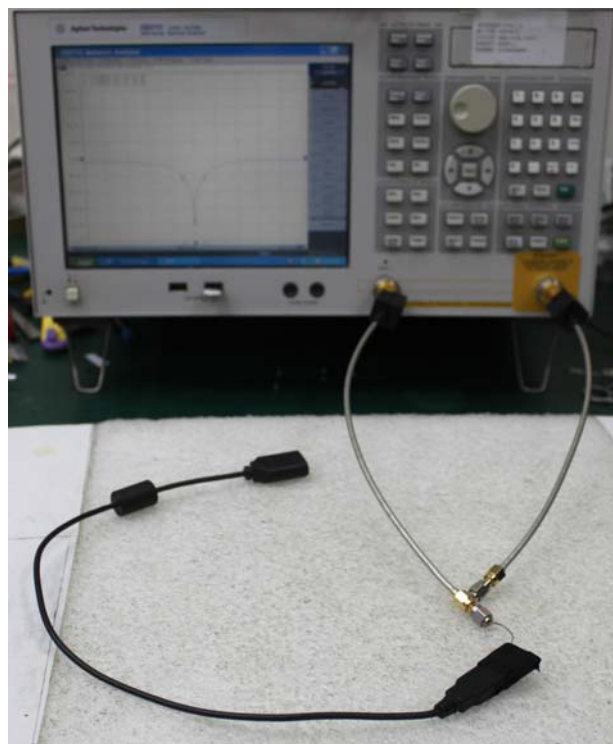
1

Project number :	client : CC&C	Model : 435	Test date : 2014/03/05
Project name : VSO Antenna Test Report Reference			PART No. :
			VSO P/No. :

802.11bg Antenna Test environment (simulated USB+USB extension cable usage environment) photos :



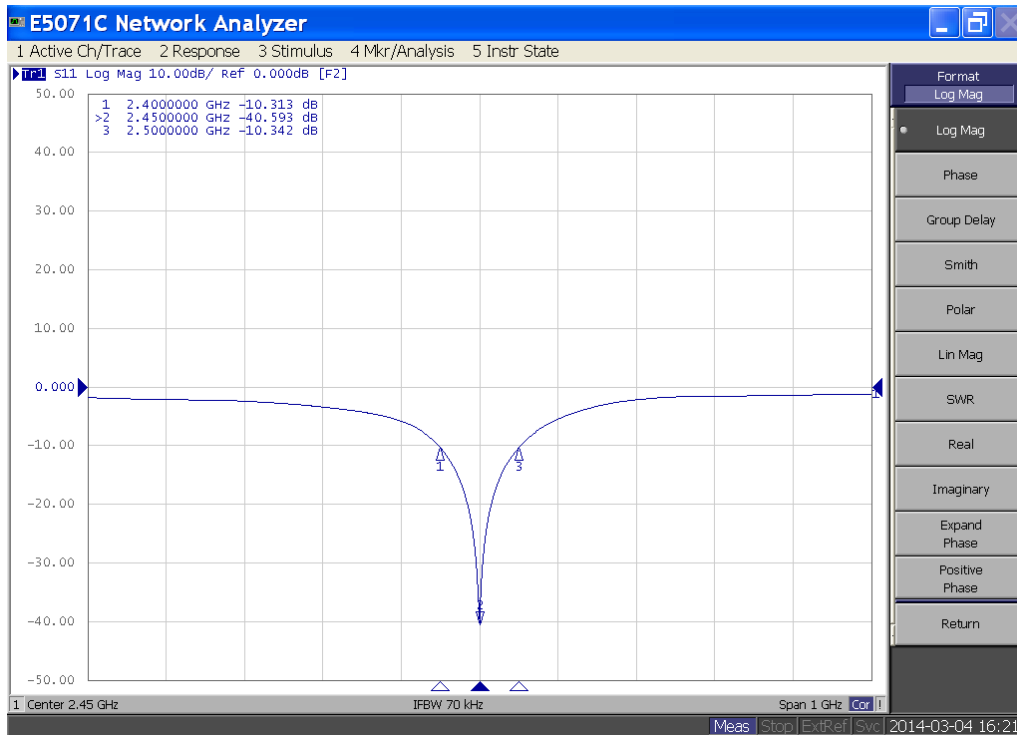
802.11bg Antenna Test environment (simulated USB+USB extension cable usage environment) photos :



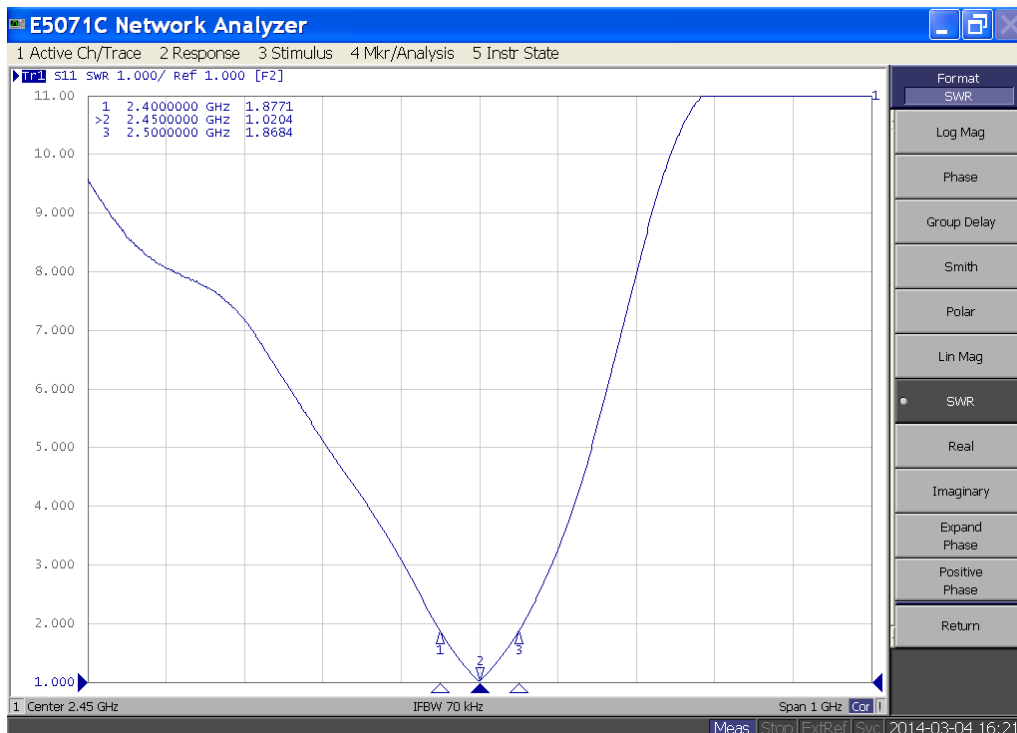
Test date : 2014/03/05

Project number :	client : CC&C	435	PART No. :
Project name : VSO Antenna Test Report Reference			VSO P/No. :

802.11bg Antenna (simulated USB+USB extension cable usage environment) Return Loss :



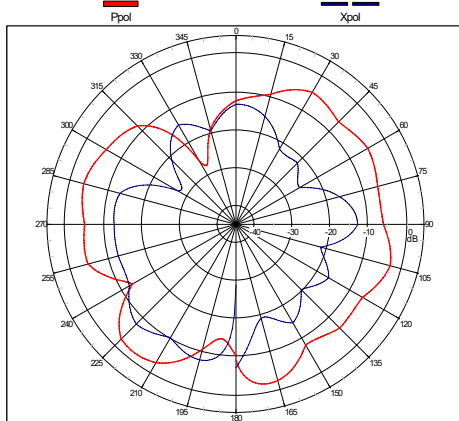
802.11bg Antenna (simulated USB+USB extension cable usage environment) V.S.W.R. :



Project number :	client : CC&C	Model : 435	PART No. :
Project name : VSO Antenna Test Report Reference			VSO P/No. :

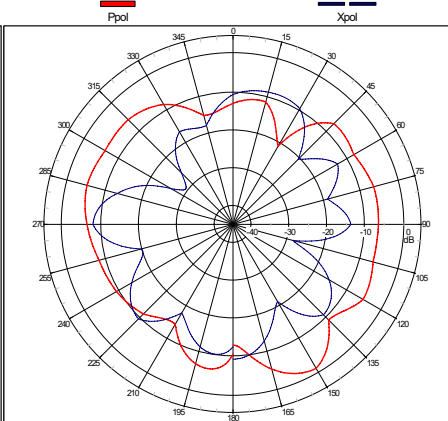
Frequency : 2400 MHz (simulated USB+USB extension cable usageenvironment)

Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg/(X-Z Plane-Cut)
Plot PeakGain(HPol): -1.7 dB; Plot PeakGain(VPol): -7.1dB @Freq: 2.4000 GHz



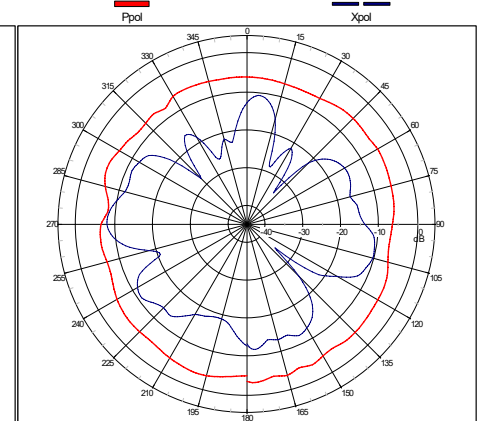
X-Z Plane

Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg/(Y-Z Plane-Cut)
Plot PeakGain(HPol): -1.0 dB; Plot PeakGain(VPol): -8.0dB @Freq: 2.4000 GHz



Y-Z Plane

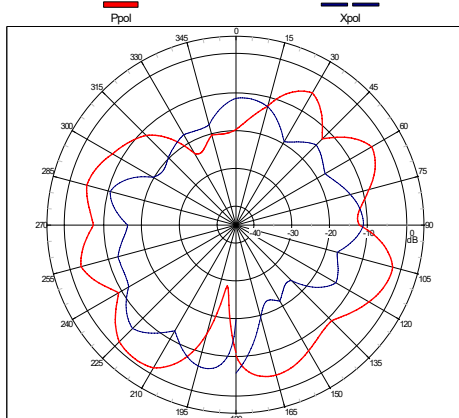
Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg/(X-Y Plane-Cut)
Plot PeakGain(HPol): -3.1 dB; Plot PeakGain(VPol): -7.9dB @Freq: 2.4000 GHz



X-Y Plane

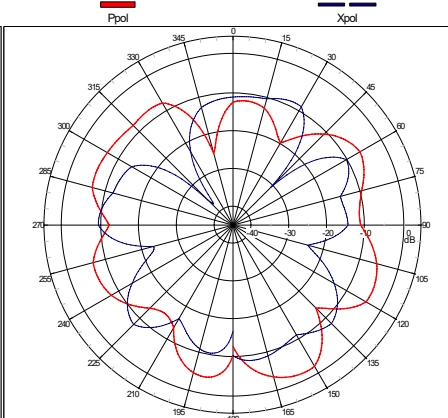
Frequency : 2450 MHz (simulated USB+USB extension cable usageenvironment)

Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg/(X-Z Plane-Cut)
Plot PeakGain(HPol): -0.7 dB; Plot PeakGain(VPol): -5.8dB @Freq: 2.4500 GHz



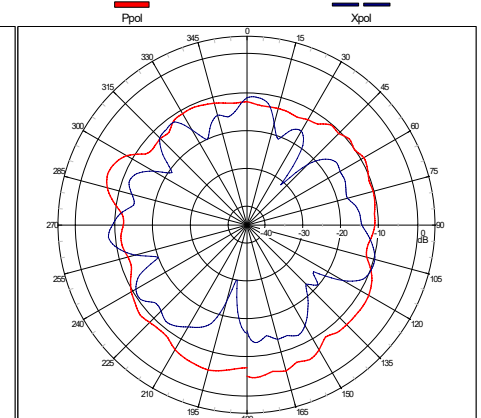
X-Z Plane

Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg/(Y-Z Plane-Cut)
Plot PeakGain(HPol): -1.7 dB; Plot PeakGain(VPol): -7.8dB @Freq: 2.4500 GHz



Y-Z Plane

Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg/(X-Y Plane-Cut)
Plot PeakGain(HPol): -4.6 dB; Plot PeakGain(VPol): -8.2dB @Freq: 2.4500 GHz



X-Y Plane

Test date : 2014/03/05

Project number :

client : CC&C

Model : 435

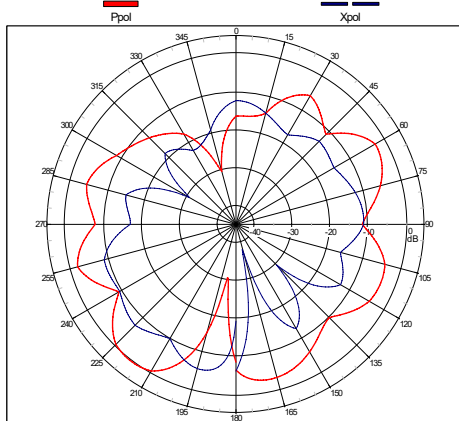
PART No. :

Project name : VSO Antenna Test Report Reference

VSO P/No. :

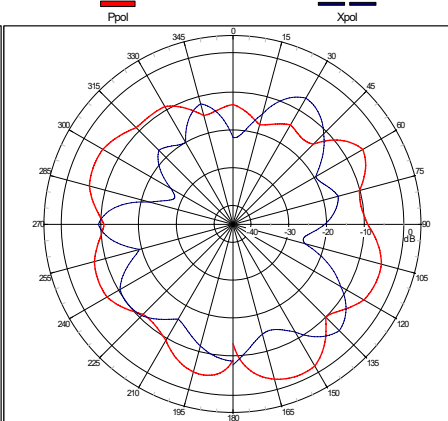
Frequency : 2500 MHz (simulated USB+USB extension cable usageenvironment)

Far-field Patterns of H-Pol & V-Pol @ Phi=0 deg/(X-Z Plane-Cut)
Plot PeakGain(H-Pol): 0.6 dBi; Plot PeakGain(V-Pol): -5.5dBi @ Freq: 2.5000 GHz



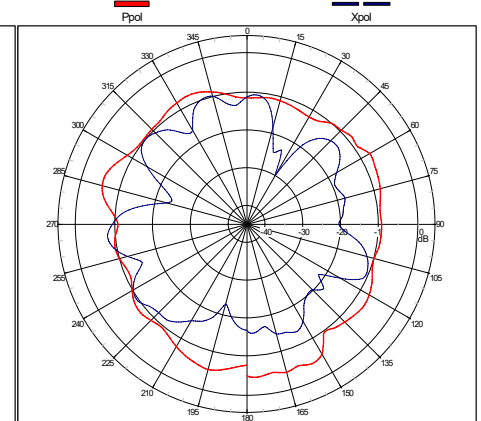
X-Z Plane

Far-field Patterns of H-Pol & V-Pol @ Phi=90 deg/(Y-Z Plane-Cut)
Plot PeakGain(H-Pol): -1.4 dBi; Plot PeakGain(V-Pol): -5.2dBi @ Freq: 2.5000 GHz



Y-Z Plane

Far-field Patterns of H-Pol & V-Pol @ Theta=90 deg/(X-Y Plane-Cut)
Plot PeakGain(H-Pol): -4.3 dBi; Plot PeakGain(V-Pol): -8.0dBi @ Freq: 2.5000 GHz



X-Y Plane

Frequenc (MHz)	Peak Gain (dBi)	Efficiency(%)
2400	-1.0	30
2450	-0.7	31
2500	0.6	34

产 品 检 测 单
Product inspection sheet

客户 client:

产品名称 Product name	洋白铜带 Nickel-nickel copper strip	产品规格 product specifications	0.1——0.5mm
产品牌号 Product brand	C7521	产品状态 product status	H/2
厚度公差 Thickness tolerance	± 0.01mm	宽度公差 Width tolerance	+0,-0.1mm

化学成份 chemical composition (%)

化学元素 chemical elements	CAS.NO	实测含量 Actual content	标准含量 Standard content	化学元素 chemical elements	CAS.NO	实测含量 Actual content	标准含量 Standard content	化学元素 chemical elements	CAS.NO	实测含量 Actual content	标准含量 Standard content
铜 Cu	7440-50-8	65.41	64.5-66.5	锌 Zn	7440-66-6	余量	余量	铁 Fe	7439-89-6	0.051	0.049-0.053
锡 Sn	7440-31-5	0.011	<0.02	磷 P	7723-14-0	0.021	<0.03	铅 Pb	— 7439-92-1	0.0002	<0.004
锑 Sb	7440-36-0	0.001	<0.01	硅 Si	7440-21-3	0.007	<0.01	铋 Bi	7440-69-9	0.007	<0.008
镍 Ni	7440-02-0	18.8	16.5-19.5	锰 Mn	7439-96-5	0.211	<0.3	铝 Al	7429-90-5	0.002	<0.01
银 Ag	7440-22-4	0.001	<0.0015	砷 As	13826-64-7	-	<0.003	镉 Cd	7440-43-9	--	<0.01
硫 S	7704-34-9	0.001	<0.03	钴 Co	7440-48-4	0.0061	<0.01	铍 Be	7440-41-7	0.0002	<0.0003
镁 Mg	7439-95-4	0.0009	<0.001	铬 Cr	7440-47-3	-	-	杂质总和 Total impurities	--	0.01	<0.02

物理性能 Physical properties:

测试项目 test items	实测值 Actual value	标准值 Standard value	测试项目 test items	实测值 Actual value	标准值 Standard value
抗拉强度 tensile strength N/mm2	539	440-570	延伸率 Elongation (%)	9	≥5
杯突值 cupping value	-	-	维氏硬度 Vickers hardness HV	168	

生产批号：2014-3-2-039
Production batch number:

检验员：江兵
inspector: Jiang Bing

确认：
confirm: