

APPROVAL SHEET WIFI Antenna

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Project manager	Eric Zhang		

Project: Z16	Author:	File Name:			
Date: 2016-08-25	Alex Lu	XY7697-12-000-R			
Revision: B					
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Date:	Revision:	Updates and changes:	Issued by:
2015-12-15	Α	Original release of the approval sheet	Shijie Lin
2016-08-25	В	Add 3D radiation pattern	Alex Lu

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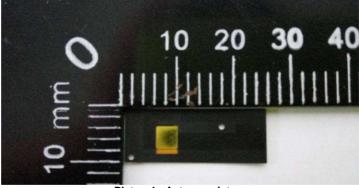
1 Antenna description

This antenna is WIFI internal antenna. The structure of the antenna is FPC.

1.1 Part number

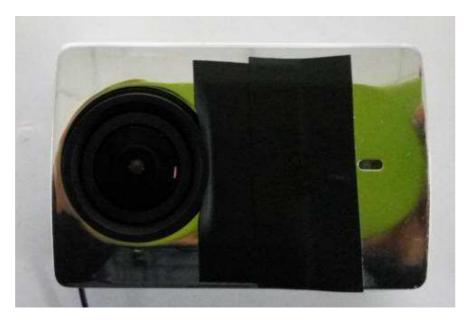
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1.2 Antenna pictures



Picture1. Antenna picture

1.3 Device pictures



Picture2. Device picture

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2 Electrical Performance

2.1 Proposal specification for mass production

Return loss

Frequency(MHz)	2400-2500	5150-5850
Return loss(dB)	≤-6	≤-5

2.2 Measurement Set-up

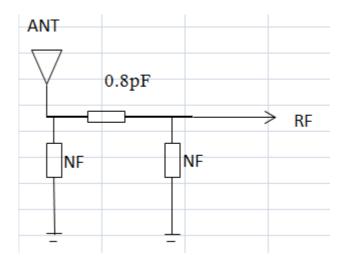
2.2.1 Return loss and VSWR

Return loss measurements (S₁₁) were performed using an Agilent ENA series Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

2.2.2 Efficiency

The efficiency of the antenna was measured in Amphenol's 3D anechoic chamber in Shanghai, China. The chamber is a Satimo system capable of doing tests from 380MHz to 6GHz. Coaxial chokes on the feed cable were used to mitigate surface currents during passive tests. The measurement results are calibrated using dipole standards.

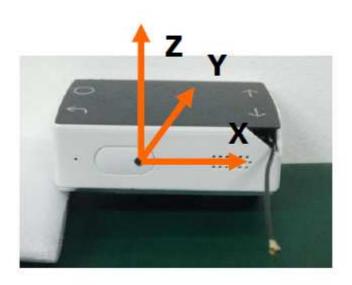
2.2.3 Matching Circuit Description



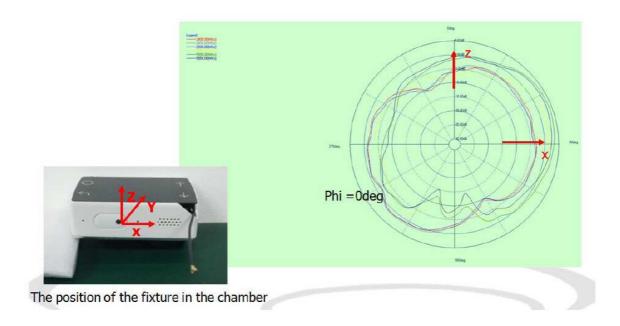
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3 Reference measurement data

3.1 Pictures of the test fixture

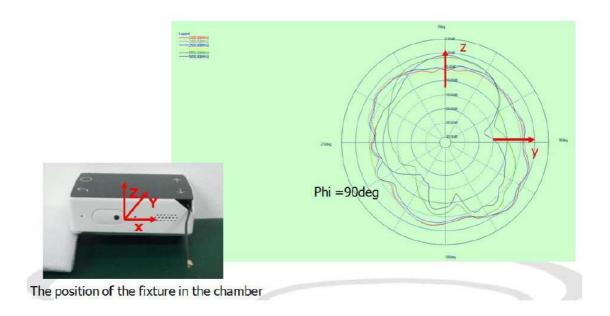


3.2 2D radiation pattern of antenna

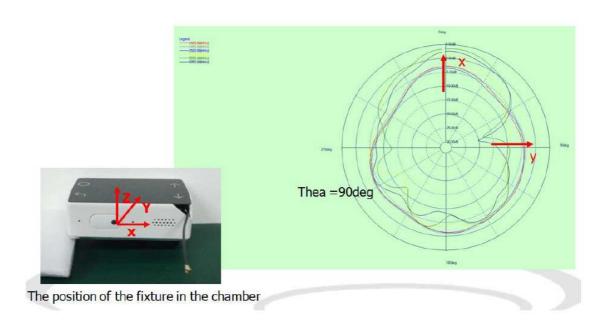


Phi = 0° (XOZ plane)

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Phi = 90° (YOZ plane)

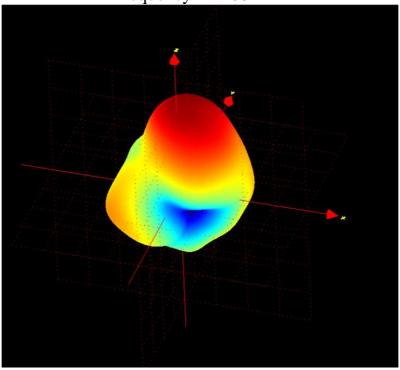


Theta = 90° (XOY plane)

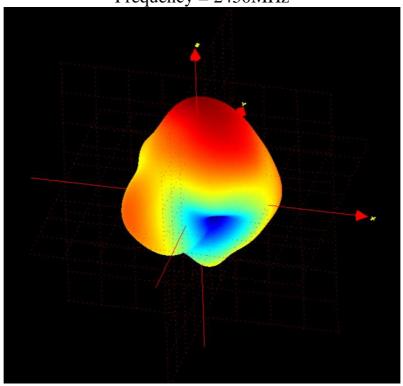
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3.3 3D radiation pattern

Frequency = 2400MHz

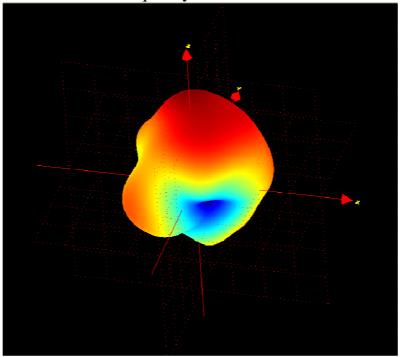


Frequency = 2450MHz

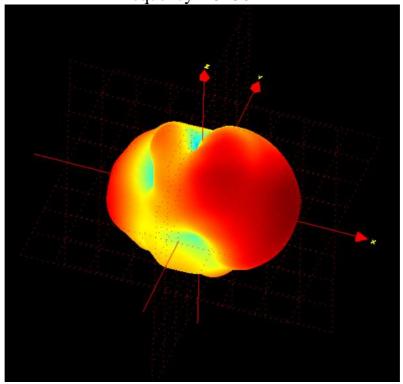


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Frequency = 2500MHz

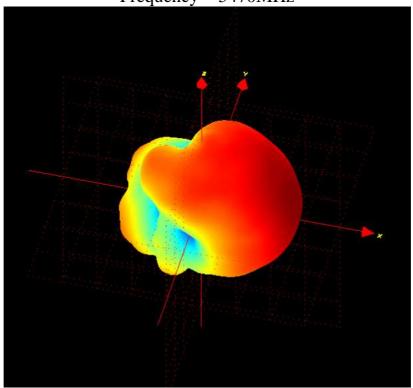


Frequency = 5150MHz

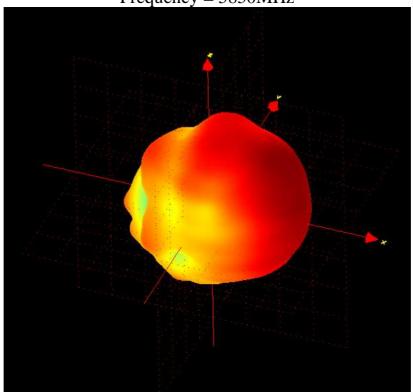


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Frequency = 5470MHz



Frequency = 5850MHz



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3.4 Return loss



Picture3. WLAN main VSWR

3.5 Efficiency and peak gain

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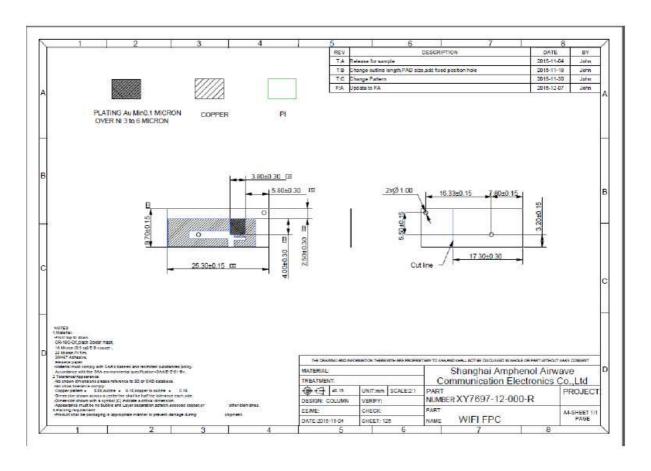
Frequency(MHz)	Efficiency (%)	Efficiency(dB)	Peak Gain(dB)
2400	44%	-3.54	1.21
2420	45%	-3.44	1.33
2440	46%	-3.35	1.57
2450	48%	-3.22	1.62
2460	47%	-3.26	1.52
2480	46%	-3.42	1.54
2500	43%	-3.66	1.26
Average	46%	-3.41	1.44
5150	40%	-4.03	1.73
5200	41%	-3.88	2.09
5250	43%	-3.66	2.53
5300	44%	-3.55	2.87
5350	48%	-3.23	3.34
5400	50%	-3.01	3.60
5450	53%	-2.77	3.91
5500	55%	-2.58	4.05
5550	56%	-2.54	4.08
5600	56%	-2.48	4.18
5650	56%	-2.50	4.10
5700	54%	-2.64	3.95
5750	52%	-2.88	3.81
5800	48%	-3.22	3.48
5850	45%	-3.44	3.30
Average	49%	-3.09	3.40

Table1 WLAN main Efficiency and peak gain

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4 Mechanical description

4.1 Drawings



5 FAI

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1																		1
		Amphenol	5		_	Inspection	pection Report : First Article/ Vendor Sample Evaluation	rt : First	Article/	Vendor	Sampl	e Evalu	ation			S	1	7
Part Name:	.e.	Z16 FPC	P	Part No.:		XY7697-12-000-R	000-R	Mold No.:	NA	A	Material Type:	Type:	N/A			Rev No.:	0	FA
Custom	NE XIA	Customer XIAOYI V Supplier		SAA			Project Name:	me:	216		Color.	N/A	Sub. No.	T.		Page	-	of 1
imens	onal	Dimensional Inspetion																
9		Specification	_						To be fille	To be filled by Amphenol	enol				SiG	Disposition		
No. Zone	-	Sign Nominal	+		Shot No.	Shot.1	Shot.2	Shot.3	Shot.4	Shot.5	1	1	1.4	EQPT	Acc	Con. Acc	æ	Remark
1 B2	4	9.70	0.15	0.15		9.62	9.64	9.65	9.63	99'6	0.5			OMM	7			
2 3		25.30	0.15	0.15 0.15		25.26	25.23	25.25	25.27	25.26				W O	~			
3 B4	-	3.80	0.30	0.30 0.30	57,525	4.05	3.95	3.92	3.96	3.98				OMM	N			
4 B4	self.	5.80	0.30	0.30 0.30		5.66	5.65	5.72	5.65	5.68				O	N			
5 05	10	2.50	0.30	0.30 0.30		2.45	2.42	2.45	2.46	2.40	1 5			OMM	7			
6 C4	- week	4.00	0.30	0.30 0.30		4.05	4.02	4.06	4.10	4.05				OMM	1			
7 B6	10	5.50	0.15	0.15 0.15	192	5.55	5.58	5.52	5.56	5.53				OMM	^			
8*2 B6	10	1.00	0.05	0.05	5	0.98	0.98	0.99	0.97	0.98				0000	7			
BB		1.00	0.05	0.05	10	0.97	0.98	96.0	0.98	0.99				OMM	1			
9 B6	10	16.33	0.15	0.15	illor Neces	16.35	16.38	16.32	16.30	16.39	55			0000	V	30-3	==	
10 B7		7.80	0.10	0.10		7.85	7.82	7.86	7.88	7.83				OMM	7			
11 88		3.20	0.15	0.15		3.22	3.25	3.22	3.21	3.23	21			WWO .	7	-		
-		0 -		\perp														
+		22		Ш							8					22		
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Equipment ID: DC. "Digital Caliner"	Caliner	4	PI G	d d	PI G - "Pluo Gauge"		RG-"Radii Gaune"	"HODE"							Disposition:	Disposition: Acc - "Accept"		
DI-"Dial Indicator"	licator		re-	Loop	LG - "Loop Gauge"		PP-"Profile Projector"	rojector"							Rej - "	Rej - "Reject"		
PLG - "Plug Gauge"	g Gaug	, a	PG-"	PG-"Pin Gauge"	_a6r		OMM-"Objec	OMM-"Objective Measuring Machine"	ng Machine"						Con. A	OO 201	ndition	Con. Acc - "Conditional Accept
																(fai	lfy, bi	(faulty, but accept)"
								Inspector	ctor		Date	QA Approval	ie al		Date	H		
			MEE	ME Engineer:		John.Jiang	6	Xiongju	2	12/9/2015	5	Lois chen		12/9/2015	15		T	

6 CPK

Project: Z16				File Name:					
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Revision:	Revision: B								
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Part Name: Z16 FPC □ Customer □ Dim. No. 1 Nominal Dim. 9.70 Tol. Max. (+) 0.15 Tol. Min. (-) 0.15 USL 9.85 LSL 9.55 Sampl.1 3.62 Sampl.2 3.64 Sampl.3 3.65 Sampl.4 3.63 Sampl.5 3.66 Sampl.6 3.65 Sampl.7 3.68 Sampl.10 3.62 Sampl.10 3.62 Sampl.10 3.62 Sampl.11 3.65 Sampl.12 3.72 Sampl.13 3.68 Sampl.14 3.68 Sampl.15 3.66 Sampl.16 3.67 Sampl.17 3.65 Sampl.18 3.66 Sampl.19 3.70 Sampl.19 3.70 Sampl.19 3.70 Sampl.10 3.63 Sampl.10 3.63 Sampl.10 3.63 Sampl.11 3.68 Sampl.12 3.68 Sampl.13 3.68 Sampl.14 3.68 Sampl.15 3.66 Sampl.16 3.67 Sampl.17 3.65 Sampl.18 3.66 Sampl.19 3.70 Sampl.20 9.72 Sampl.21 3.68 Sampl.22 3.65 Sampl.23 3.63 Sampl.24 3.65 Sampl.25 3.64 Sampl.26 3.65 Sampl.27 3.67 Sampl.28 3.65 Sampl.29 3.65 Sampl.29 3.65 Sampl.30 3.68 Sampl.31 3.68 Sampl.31 3.68 Sampl.31 3.68 Sampl.33 3.68	Part No piler 2 25.30 0.15 0.15 25.45 25.15 25.26 25.27 25.26 25.31 25.26 25.27 25.26 25.22 25.31 25.26 25.25 25.27 25.26 25.25 25.27 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.25 25.26 25.26 25.27 25.26 25.27 25.28 25.28	3 3,80 0,30 0,30 4,10 3,50 4,05 3,95 3,92 3,96 3,98 3,92 3,85 3,88 3,90 3,92 3,91 3,86 3,88 3,91 3,86 3,88 3,91 3,86 3,88 3,92 3,86 3,88 3,92 3,86 3,88 3,92 3,88	7697-12-0 Project N 4 5.80 0.30 0.30 6.10 5.50 5.66 5.65 5.72 5.65 5.68 5.75 5.72 5.75 5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72 5.73		Mold No.: 2 6 4.00 0.30 0.30 4.30 3.70 4.05 4.02 4.06 4.11 4.05 4.12 4.06 4.08 4.09 4.12 4.11 4.08 4.06 4.05 4.06 4.07		N/A Color:		Material 1//A 0.00 0.00	0.00 0.00	N/A 1	0.00 0.00	FA 1
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Nominal Dim. 9,70 Tol. Max. (+) 0.15 Tol. Min. (-) 0.15 USL 9,85 LSL 9,55 Sampl.1 3,62 Sampl.2 3,64 Sampl.5 3,66 Sampl.6 3,65 Sampl.7 3,68 Sampl.8 3,64 Sampl.9 3,65 Sampl.10 3,62 Sampl.11 3,65 Sampl.12 3,72 Sampl.13 3,68 Sampl.14 3,68 Sampl.15 3,66 Sampl.16 3,67 Sampl.17 3,65 Sampl.18 3,66 Sampl.19 3,70 Sampl.19 3,70 Sampl.19 3,70 Sampl.19 3,70 Sampl.20 3,72 Sampl.21 3,68 Sampl.22 3,65 Sampl.24 3,65 Sampl.25 3,64 Sampl.26 3,67 Sampl.27 3,67 Sampl.28 3,68 Sampl.29 3,65 Sampl.30 3,66 Sampl.31 3,64 Sampl.32 3,63 Sampl.33 3,68 Sampl.34 3,65 Sampl.33 3,68 Sampl.33 3,68 Sampl.33 3,68 Sampl.33 3,68 Sampl.34 3,65 Sampl.34 3,65 Sampl.33 3,68 Sampl.34 3,65 Sampl.35 3,65 Sampl.36 3,65 Sampl.36 3,65 Sampl.3	25.30 0.15 0.15 25.45 25.26 25.23 25.25 25.27 25.26 25.31 25.26 25.32 25.31 25.26 25.32 25.31 25.26 25.25 25.31 25.26 25.32 25.31 25.26 25.32 25.31 25.26 25.33 25.25 25.26 25.33 25.26 25.25 25.26 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.26 25.27 25.28 25.29 25.29 25.30 25.31 25.26 25.30 25.31 25.26 25.32 25.33 25.26 25.33 25.26 25.30 25.31 25.26 25.30 25.31 25.26 25.30 25.31 25.32 25.33 25.33 25.33 25.33 25.33 25.33 25.34 25.35 25.36 25.36 25.36 25.36 25.36 25.37 25.30 25.30 25.31 25.30 25.31 25.32 25.33 25.33 25.33 25.33 25.33 25.34 25.36 25.36 25.36 25.36 25.37 25.30 25.31 25.32 25.33 25.33 25.33 25.33 25.33 25.33 25.33 25.26 25.26 25.26 25.30 25.3	3.80 0.30 4.10 3.50 4.05 3.95 3.92 3.96 3.98 3.92 3.85 3.88 3.90 3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.85	5.80 0.30 0.30 6.10 5.50 5.66 5.65 5.72 5.65 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.72 5.75 5.68 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.75 5.72 5.77 5.72 5.77 5.77 5.77 5.77 5.77 5.78 5.78 5.78 5.79	2.50 0.30 0.30 2.80 2.20 2.45 2.42 2.45 2.46 2.41 2.45 2.46 2.42 2.43 2.45 2.48 2.49 2.48 2.49	4.00 0.30 0.30 4.30 3.70 4.05 4.02 4.06 4.11 4.05 4.12 4.06 4.08 4.09 4.12 4.08 4.09 4.11 4.08 4.09 4.10 4.00	100 0000		190.000					Rema
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Sampl.3 9.65 Sampl.4 9.63 Sampl.5 9.66 Sampl.6 9.65 Sampl.7 9.68 Sampl.8 3.64 Sampl.9 9.65 Sampl.10 9.62 Sampl.11 9.62 Sampl.12 9.72 Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.65 Sampl.17 9.65 Sampl.18 9.66 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.33 9.68 Sampl.33 9.68	25.25 25.27 25.26 25.32 25.31 25.26 25.25 25.26 25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.25 25.30 25.31 25.32 25.28	3.92 3.96 3.98 3.92 3.85 3.88 3.90 3.92 3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.92 3.85	5.72 5.65 5.56 5.68 5.75 5.72 5.75 5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72	2.45 2.46 2.41 2.45 2.46 2.42 2.43 2.45 2.48 2.51 2.48 2.42 2.46 2.42 2.46 2.49 2.45	4.06 4.11 4.05 4.11 4.05 4.12 4.06 4.08 4.09 4.12 4.11 4.08 4.06 4.05 4.06 4.07								
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Sampl.5 9,66 Sampl.6 9,65 Sampl.7 9,68 Sampl.8 9,64 Sampl.9 9,65 Sampl.10 9,62 Sampl.11 9,65 Sampl.12 9,72 Sampl.13 9,68 Sampl.14 9,68 Sampl.15 9,66 Sampl.16 9,67 Sampl.17 9,65 Sampl.18 3,66 Sampl.19 9,70 Sampl.19 9,70 Sampl.20 9,72 Sampl.21 9,68 Sampl.22 9,63 Sampl.23 9,63 Sampl.24 9,65 Sampl.25 9,64 Sampl.26 9,65 Sampl.27 9,67 Sampl.28 9,68 Sampl.29 9,65 Sampl.30 9,66 Sampl.31 9,64 Sampl.33 9,68 Sampl.33 9,68 Sampl.34	25.26 25.32 25.31 25.26 25.25 25.26 25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.29	3,98 3,92 3,85 3,88 3,90 3,92 3,91 3,86 3,88 3,91 3,86 3,92 3,86 3,85 3,92 3,85	5.56 5.68 5.75 5.72 5.75 5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72	2.41 2.45 2.46 2.42 2.43 2.45 2.46 2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.45	4.05 4.11 4.05 4.12 4.06 4.08 4.09 4.12 4.11 4.08 4.06 4.05 4.08 4.06								
Sampl.6 9.65 Sampl.7 9.68 Sampl.8 9.64 Sampl.9 9.65 Sampl.10 9.62 Sampl.11 9.65 Sampl.12 9.72 Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.68 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.21 9.65 Sampl.22 9.65 Sampl.23 9.65 Sampl.24 9.65 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.32 25.31 25.26 25.25 25.26 25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.29	3.92 3.85 3.88 3.90 3.92 3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.85	5.68 5.75 5.72 5.75 5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72	2.45 2.46 2.42 2.43 2.45 2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.45	4.11 4.05 4.12 4.06 4.08 4.09 4.12 4.11 4.08 4.06 4.05 4.06 4.07								
Sampl. 7 9,68 Sampl. 8 9,64 Sampl. 9 9,65 Sampl. 10 9,62 Sampl. 11 9,65 Sampl. 12 9,72 Sampl. 13 9,68 Sampl. 14 9,68 Sampl. 15 9,66 Sampl. 16 9,67 Sampl. 17 9,65 Sampl. 18 9,70 Sampl. 19 9,70 Sampl. 20 9,72 Sampl. 21 9,68 Sampl. 22 9,65 Sampl. 23 9,63 Sampl. 24 9,65 Sampl. 24 9,65 Sampl. 25 9,64 Sampl. 26 9,65 Sampl. 27 9,67 Sampl. 28 9,68 Sampl. 29 9,65 Sampl. 30 9,66 Sampl. 30 9,66 Sampl. 31 9,64 Sampl. 32 9,63 Sampl. 32 9,63 Sampl. 33 9,68 Sampl. 33 9,68 Sampl. 33 9,68 Sampl. 33 9,68	25.31 25.26 25.25 25.26 25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.29	3.85 3.88 3.90 3.92 3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.92 3.86 3.85	5.75 5.72 5.75 5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72	2.46 2.42 2.43 2.45 2.46 2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.45	4,05 4,12 4,06 4,08 4,09 4,12 4,11 4,08 4,06 4,05 4,06 4,07								
Sampl.8 9.64 Sampl.9 9.65 Sampl.10 9.62 Sampl.11 9.65 Sampl.12 9.72 Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.68 Sampl.30 9.68 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68	25.25 25.26 25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.29	3.90 3.92 3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.85	5.75 5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72	2.43 2.45 2.46 2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.45	4.06 4.08 4.09 4.12 4.11 4.08 4.06 4.05 4.08 4.06								
Sampl.10 9.62 Sampl.11 9.65 Sampl.12 9.72 Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.66 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.65 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.29 9.65 Sampl.29 9.65 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.26 25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.29	3.92 3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.85 3.92	5.68 5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72	2.45 2.46 2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.42	4.08 4.03 4.12 4.11 4.08 4.06 4.05 4.08 4.06								
Sampl.11 9.65 Sampl.12 9.72 Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.66 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.65 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.29 9.65 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.24 25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.25	3.91 3.86 3.88 3.91 3.86 3.92 3.86 3.92 3.85	5.66 5.75 5.72 5.71 5.73 5.69 5.68 5.72 5.75	2.48 2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.42	4.03 4.12 4.11 4.08 4.06 4.05 4.08 4.06 4.07								
Sampl.12 9.72 Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.66 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.65 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.29 9.65 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.28 25.25 25.30 25.31 25.32 25.28 25.29 25.25	3.86 3.88 3.91 3.86 3.92 3.86 3.85 3.92 3.85	5.75 5.72 5.71 5.73 5.69 5.68 5.72 5.75	2.48 2.51 2.48 2.42 2.46 2.49 2.45 2.42	4.12 4.11 4.08 4.06 4.05 4.08 4.06 4.07								
Sampl.13 9.68 Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.66 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.65 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.25 25.30 25.31 25.32 25.28 25.29 25.25	3.88 3.91 3.86 3.92 3.86 3.85 3.92 3.85	5.72 5.71 5.73 5.69 5.68 5.72 5.75	2.51 2.48 2.42 2.46 2.49 2.45 2.42	4.11 4.08 4.06 4.05 4.08 4.06 4.07								
Sampl.14 9.68 Sampl.15 9.66 Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.66 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.30 25.31 25.32 25.28 25.29 25.25	3.91 3.86 3.92 3.86 3.85 3.92 3.85	5.71 5.73 5.69 5.68 5.72 5.75	2.48 2.42 2.46 2.49 2.45 2.42	4.08 4.06 4.05 4.08 4.06 4.07								
Sampl. 15 9.66 Sampl. 16 9.67 Sampl. 17 9.65 Sampl. 18 9.66 Sampl. 19 9.70 Sampl. 20 9.72 Sampl. 21 9.68 Sampl. 22 9.65 Sampl. 24 9.65 Sampl. 25 9.64 Sampl. 26 9.65 Sampl. 27 9.67 Sampl. 28 9.68 Sampl. 30 9.68 Sampl. 31 9.64 Sampl. 31 9.64 Sampl. 32 9.63 Sampl. 33 9.68 Sampl. 34 9.65	25.32 25.28 25.29 25.25	3.92 3.86 3.85 3.92 3.85	5.69 5.68 5.72 5.75	2.46 2.49 2.45 2.42	4.05 4.08 4.06 4.07								
Sampl.16 9.67 Sampl.17 9.65 Sampl.18 9.66 Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 3.63 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.68 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.34 9.65	25.28 25.29 25.25	3.85 3.85 3.92 3.85	5.68 5.72 5.75	2.49 2.45 2.42	4.08 4.06 4.07								
Sampl. 18 9.66 Sampl. 19 9.70 Sampl. 20 9.72 Sampl. 21 9.68 Sampl. 22 9.65 Sampl. 23 9.63 Sampl. 24 9.65 Sampl. 25 9.64 Sampl. 26 9.65 Sampl. 27 9.67 Sampl. 28 9.68 Sampl. 29 9.65 Sampl. 30 9.66 Sampl. 31 9.64 Sampl. 32 9.63 Sampl. 33 9.68 Sampl. 34 9.65	25.29 25.25	3.85 3.92 3.85	5.72 5.75	2.45	4.06								
Sampl.19 9.70 Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.25	3.92	5.75	2.42	4.07								
Sampl.20 9.72 Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68		3.85		2000 000	2.22				-				
Sampl.21 9.68 Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.34 9.65	Z5.Z1		5.73										
Sampl.22 9.65 Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.34 9.65	25.26		5.68	2.46	4.08								
Sampl.23 9.63 Sampl.24 9.65 Sampl.25 9.64 Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68 Sampl.33 9.68	25.31	3.95	5.71	2.46	4.10								
Sampl.25	25.28	3.92	5.73	2.48	4.03								
Sampl.26 9.65 Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.34 9.65	25.32	3.85	5.68	2.51	4.06								
Sampl.27 9.67 Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.34 9.65	25.28	3.88	5.72	2.45	4.05								
Sampl.28 9.68 Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.33 9.68 Sampl.34 9.65	25.26	3.86	5.75	2.46	4.10								
Sampl.29 9.65 Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.34 9.65	25.25 25.26	3.92	5.71 5.68	2.48	4.06								
Sampl.30 9.66 Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.34 9.65	25.31	3.92	5.69	2.43	4.03								
Sampl.31 9.64 Sampl.32 9.63 Sampl.33 9.68 Sampl.34 9.65	25.32	3.85	5.75	2.45	4.04								
Sampl.33 9.68 Sampl.34 9.65	25.29	3.88	5.72	2.47	4.09								
Sampl.34 9.65	25.28	3.86	5,69	2.46	4.05								
Gampi.or	25.26	3.85	5.68	2.48	4.06								
	25.28 25.29	3.89	5.67 5.71	2.45	4.05								
	1												
Maximum 9.720	25.320	4.050	5,750	2.510	4.120	0.000	0.000	0.000	0.000	0.00	0.00	0.00	
Minimum 9.620	25.230	3.850	5.560	2.410	4.020	0.000	0.000	0.000	0.000	0.00	0.00	0.00	
Std Dev 0.025	0.026	0.045	0.039	0.026	0.026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Mean 9.660	25.277	3.898	5.701	2.459	4.069	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
200				Landa.				Total Carlo Street					
Cp 1.988		2.236	2.550	3.855	3.806	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Cpkl 1.454	1.945	2.964	1.708	3.330	4.687	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Cpku 2.523		1.508	3.393	4.380	2.925	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Cpk 1.454					2.925		r				#DIV/0!	#DIV/0!	

Project: Z16				File Name:
Date: 2016-08	3-25		Alex Lu	XY7697-12-000-R
Revision:	В			
			CONFI	DENTIAL
		Shanghai	Amphenol Airwaye C	Communication Electronics Co. Ltd