SPECIFICATION

Product Name	**MULTILAYER CHIP ANTENNA**
Customer	**INGSTEL**
Model Name	**IA203**
Customer Code.	
Provider	**RadiAnt**
Part Code.	**RC0801-0000AA**

Buyer	**Submitted**	**Checked**		**Approved**
RadiAnt	**Submitted**	**Checked**	**Checked**	**Approved**
				

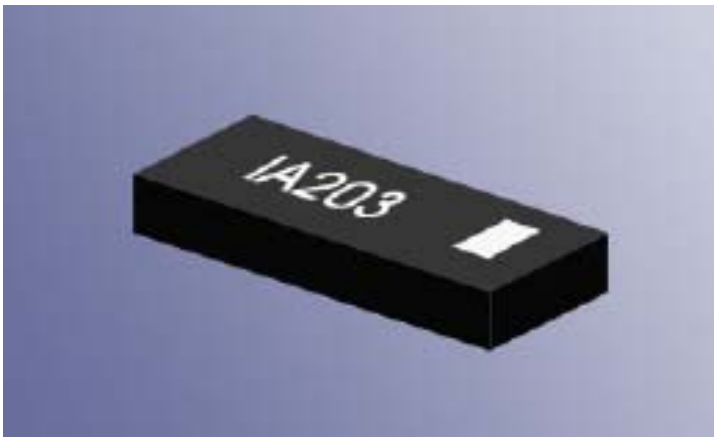
– Table of Contents –

1. Product History

LIST					
NO	Data	Front	After	Change	REV
1	2009.04.01			Approval	0
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

2. Specifications

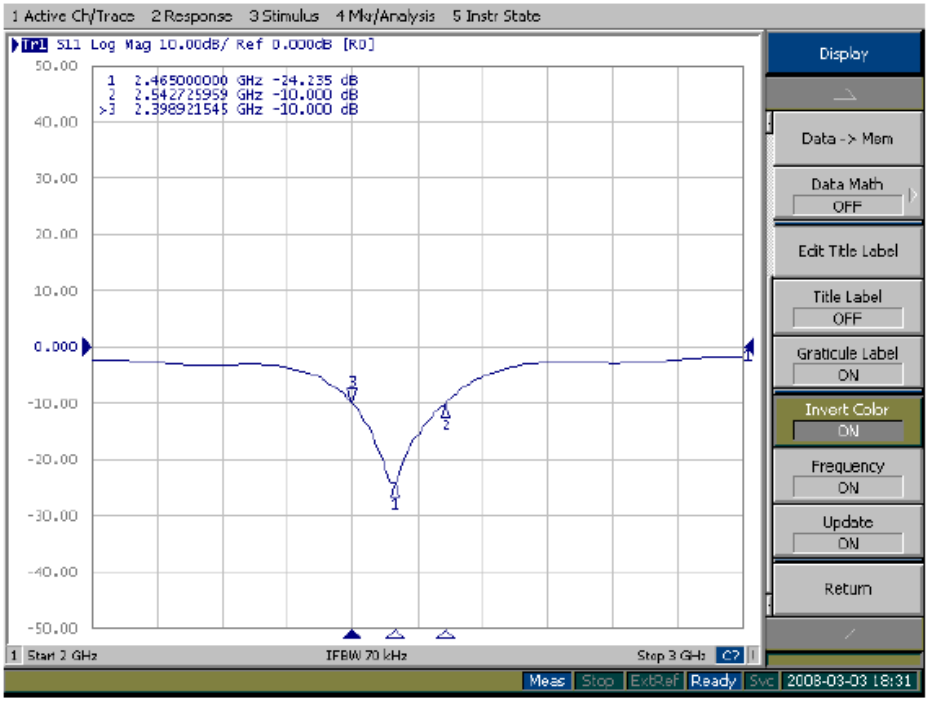
TYPE	Specifications
Frequency	2.4 ~ 2.483GHz
Dimension	5.2 x 2.0 x 1.2 (mm)
Impedance	50Ω
Polarization	Linear
V.S.W.R	2.0
Gain	Typical Gain = 2 dBi
Operating Temperature	-25 ~ +85℃
Weight	0.03g



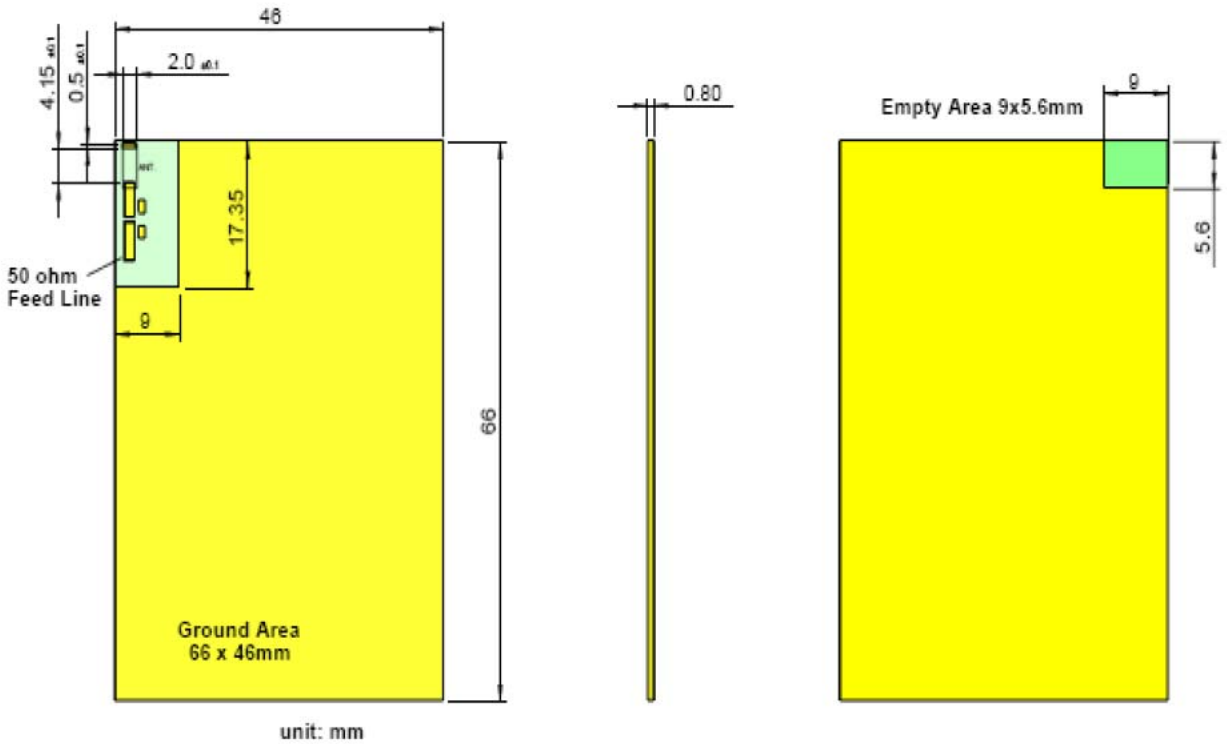
<IA203>

3. Electric Performance Data

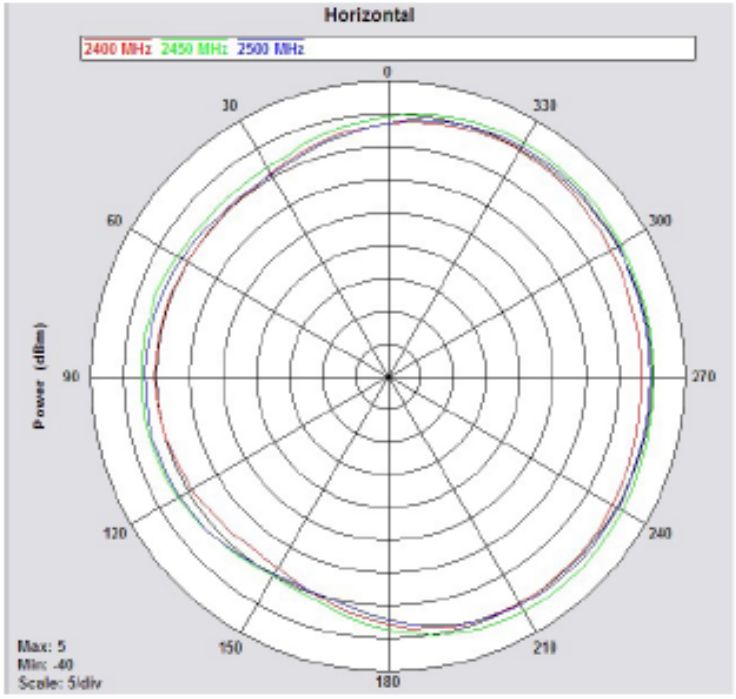
3.1 S11

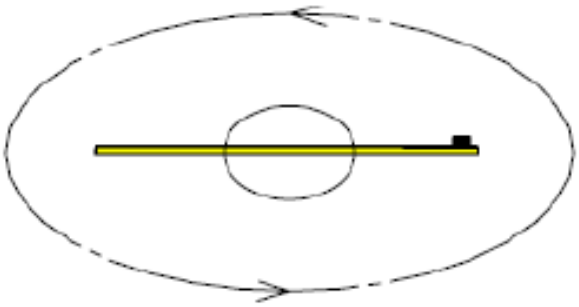


3.2 Empty Area

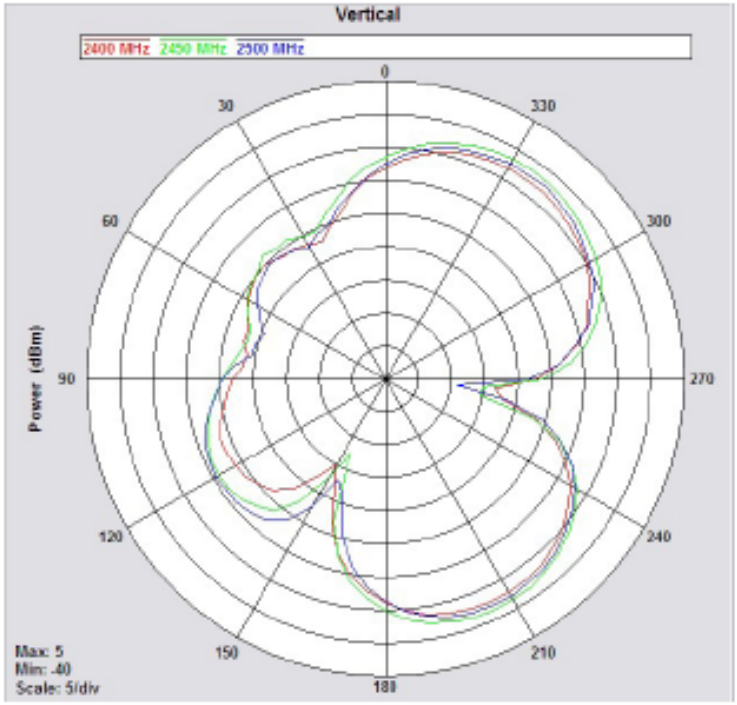


3.3 GAIN PATTERN (X-Z PLANE)

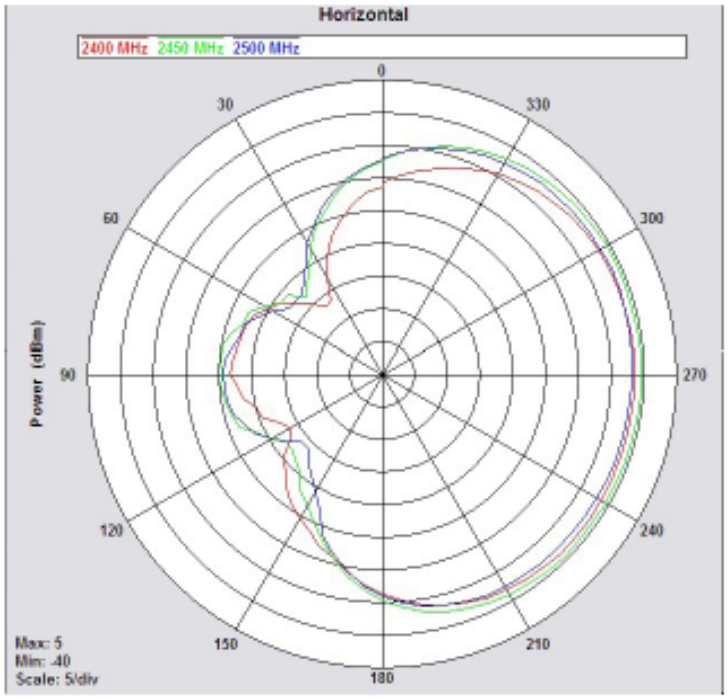


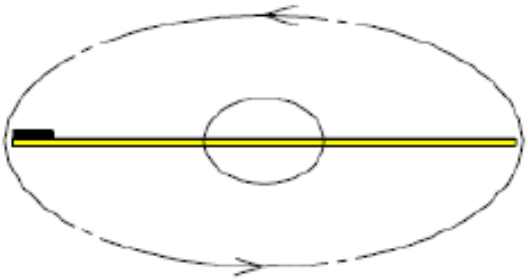


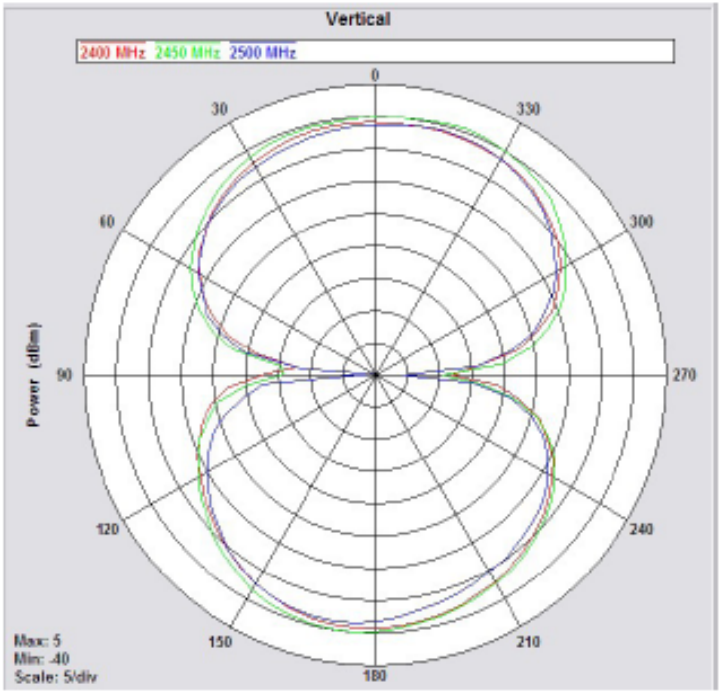
X-Z PLANE



3.4 GAIN PATTERN (Y-Z PLANE)

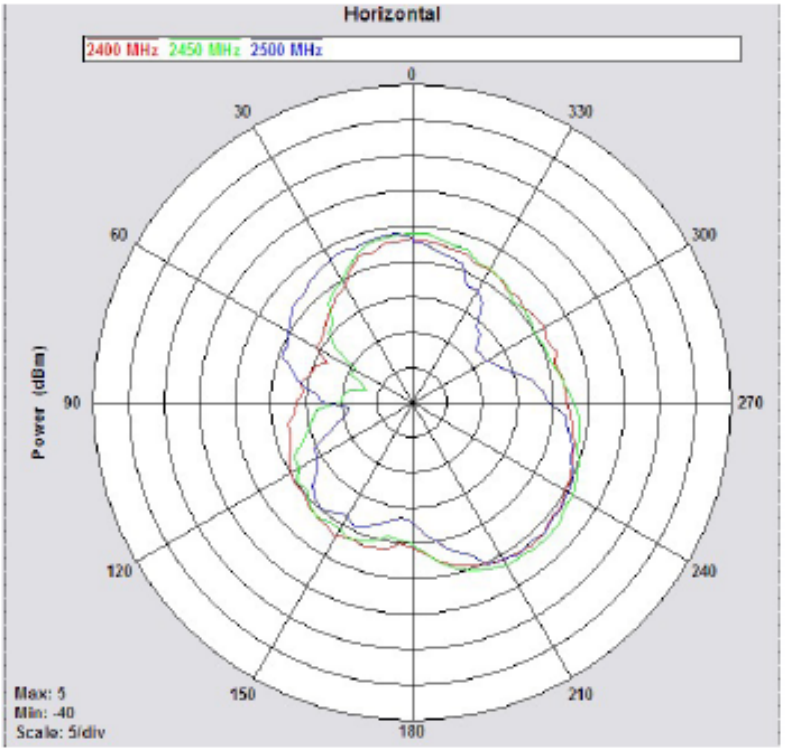


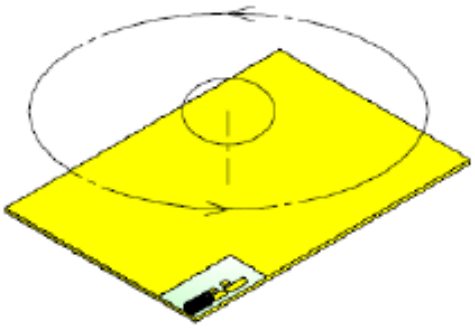




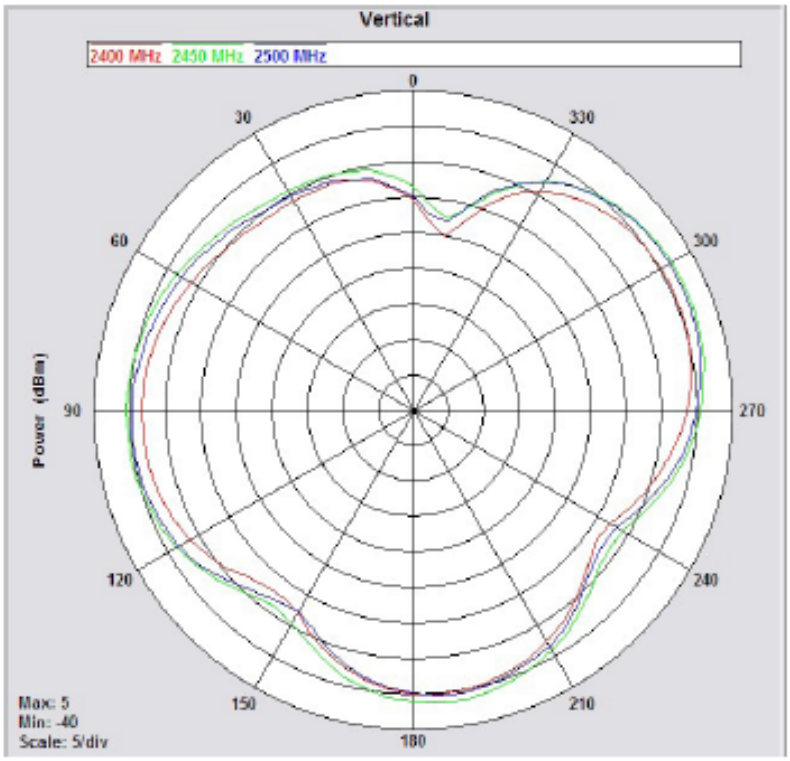
Y-Z PLANE

3.5 GAIN PATTERN (X-Y PLANE)

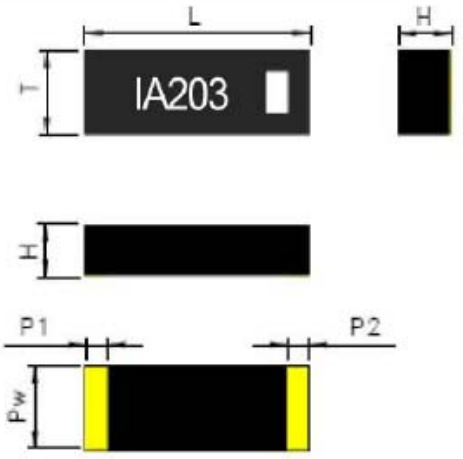




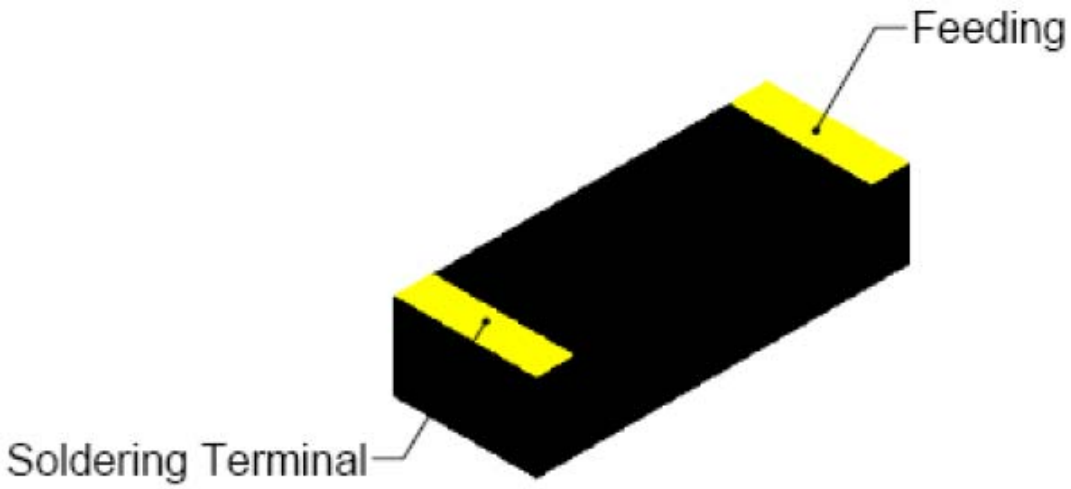
X-Y PLANE



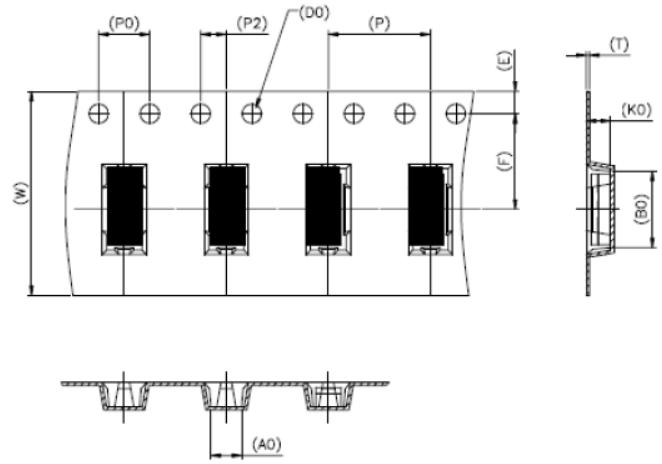
4. Drawing

Figure	Dimension		Pad Definition
	L	5.2±0.1mm	-
	T	2±0.1mm	-
	H	1.2±0.2mm	-
	Pw	2±0.1mm	Pad Width
	P1	0.5±0.1mm	Soldering Terminal
	P2	0.5±0.1mm	Feeding

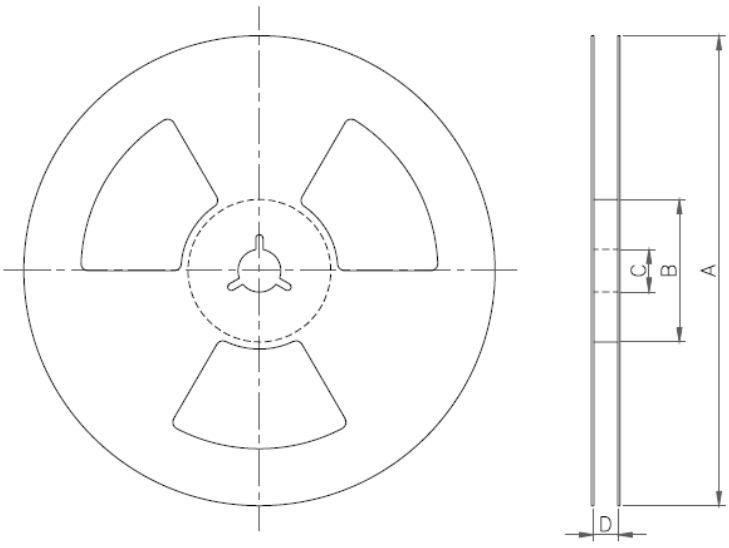
5. Construction



6.Packing



Index	W	E	F	T	P	K0
Dimension(mm)	16.00 ± 0.30	1.75 ± 0.10	7.50 ± 0.10	0.25 ± 0.05	8.00 ± 0.10	1.90± 0.10
Index	P0	P2	D0	A0	B0	
Dimension(mm)	4.00 ± 0.10	2.00 ± 0.10	Φ1.50	2.40 ± 0.10	6.00 ± 0.10	



Index	A	B	C	D
Dimension(mm)	Φ330	Φ100	Φ13.5	17.0 ± 0.5

Taping Quantity: MOQ=4K pieces per 13” reel.

7.Certification of RoHS

SGS

Test Report

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H & H TECHNOLOGY CO., LTD.
NO. 99, ANCHUNG RD., HSINTIEN CITY, TAIPEI COUNTY 23154, TAIWAN.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	2.4g ANT
Style/Item No.	:	IXXXX
Sample Receiving Date	:	2008/05/05
Testing Period	:	2008/05/05 TO 2008/05/12

==========

Test Requested	:	In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method	:	With reference to IEC 62321/2nd CDV (111/95/CDV) Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products. (1) Determination of Cadmium by ICP-AES. (2) Determination of Lead by ICP-AES. (3) Determination of Mercury by ICP-AES. (4) Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry. (5) Determination of PBB and PBDE by GC/MS.
Test Result(s)	:	Please refer to next page(s).

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

SGS TAIWAN LIMITED | NO. 136-1, Wu Kung Road, WuKu Industrial Zone, Taipei county, Taiwan.
t(886-2) 22993939 f(886-2) 2299-3237 www.sgs.com.tw

SGS

Test Report

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H & H TECHNOLOGY CO., LTD.
NO. 99, ANCHUNG RD., HSINTIEN CITY, TAIPEI COUNTY 23154, TAIWAN.

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result No.1	MDL
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona) (Note 4)		n.d.	-
Monobromodiphenyl ether		n.d.	5
Dibromodiphenyl ether		n.d.	5
Tribromodiphenyl ether		n.d.	5
Tetrabromodiphenyl ether		n.d.	5
Pentabromodiphenyl ether		n.d.	5
Hexabromodiphenyl ether		n.d.	5
Heptabromodiphenyl ether		n.d.	5
Octabromodiphenyl ether		n.d.	5
Nonabromodiphenyl ether		n.d.	5
Decabromodiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1 : 2.4g ANT <IXXXX>

Note : 1. mg/kg = ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. According to 2005/717/EC DecaBDE is exempt.
5. "-" = Not Regulated

SGS

Test Report No. : CE/2008/50727 Date : 2008/05/12 Page : 3 of 3

H & H TECHNOLOGY CO., LTD.
NO. 99, ANCHUNG RD., HSINTIEN CITY, TAIPEI COUNTY 23154, TAIWAN.

** End of Report **