TO QUANTA

SPECIFICATION FOR APPROVAL

CUSTOMER DWG. NO./PART NO.: _____ REV.: N/A

DESCRIPTION: RF CABLE ASS'Y

FOXCONN PROD. NO: WDAN-Q1ZI1003 REV.: X1

ATTACHMENTS:

1. RF CABLE ASSEMBLY DRAWING	605-0100-400
2. DESIGN REVIEW FOR MATERIAL LIST	ML-400
3. PART DRAWING.....	EP00-082-01
	703-0000-291
	01-01000031-00
	085-0000-631

PLEASE RETURN TO US ONE COPY OF COVER PAGE OF THE "SPECIFICATION FOR APPROVAL " WITH YOUR APPROVED SIGNATURES.

APPROVED SIGNATURES		

FOXCONN®

Hon Hai Precision Industry Co., Ltd.

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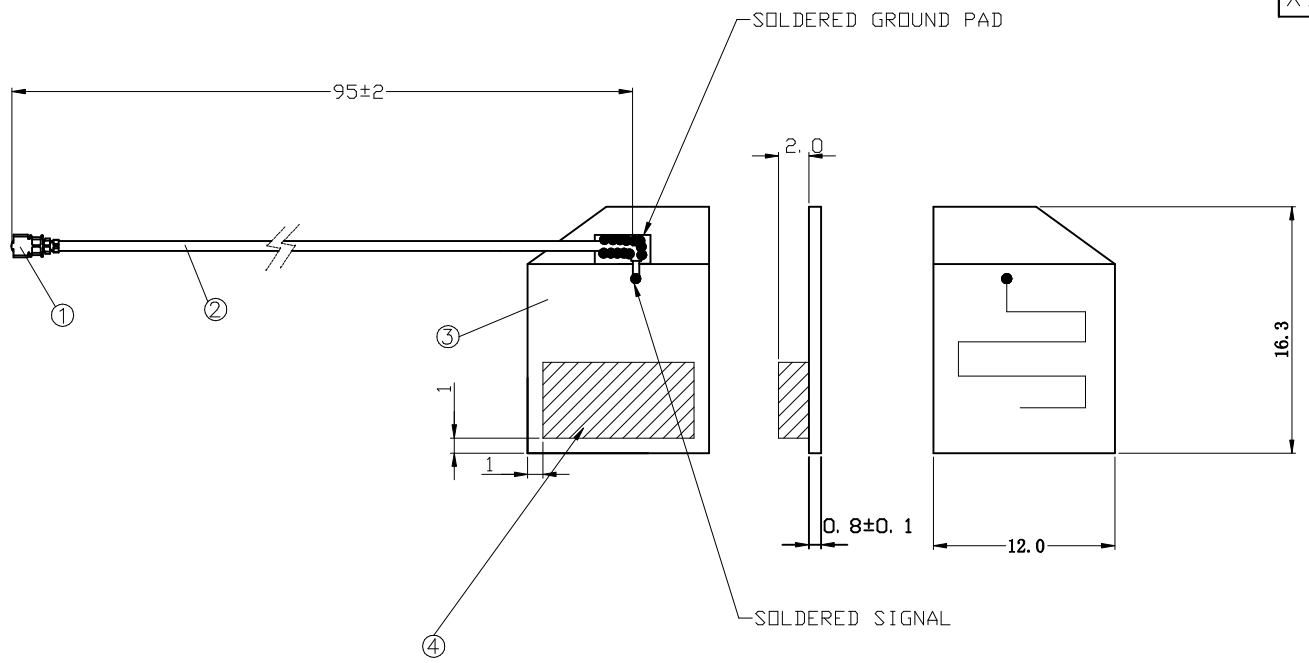
TAIWAN, R.O.C
FAX: (02) 2687795 (02) 2683225
TLX: 32349 FOXCONNHH
UNIFORM INVOICE NUMBER: 04541302

Approved by: Sheng Checked by: David Wang Prepared by: LXF

FILE NO.: SFA-400 REVISION NO.: A DATE: 02/14'03

REV.	ECN. NO.	APPD.
X1		



NOTES:

1. ALL DIMENSIONS SHALL BE INTERPRETED PER ANSI Y14.5M–1982.
2. HARMFUL MATERIAL CONTROL PLEASE FOLLOW DOC.NO."EPI12".
3. DIMENSIONS MARKED ▼ SHALL BE CHECKED.

ITEM	DESCRIPTION	FOXCONN P/N	REMARK	Q'TY
④	EVA SPONG	085–0003–631		1 PCS
③	PCB	01–01000031–00		1 PCS
②	30 AWG SOLID COAXIAL CABLE	703–3000–291		A/R
①	RF CONNECTOR	SGX0001–00		1 PCS

X.±1	X°±
.X±0.5	.X°±
.XX±0.25	.XX°±
.XXX±	.XXX°±

UNITS mm

MAT'L

FINISH

Q'TY

NAME(INTENDED USE): QUANTA ZI1S BT

PART NO.(INTENDED USE): WDAN–Q1ZI1003

APPD: C C Wang 02/18'03

CHKD: LXF 02/18'03

DR: Z.F Lin 01/22'03

FOXCONN
HON HAI PRECISION IND. CO.,LTD.
TAIPEI, TAIWAN, R.O.C.

TITLE: INTERNAL DRAWING

DWG NO.: 605–0100–400

SCALE	SHEET	REV.
N/A	1/1	X1

DESIGN REVIEW FOR MATERIAL LIST

CUSTOMER P/N : QUANTA ZI1

NO : ML-400

DESCRIPTION : RF CABLE ASS'Y

PAGE : 1/1

ITEM	DESCRIPTION	SUPPLIER/AGENCY					QUANTITY	REMARK
		SUPPLIER	SUPPLIER PART NO.	FOXCONN PART NO.	AVL	UL SUBMIT		
1	RF CONNECTOR	FOXCONN	SGX0001-00	SGX0001-00		N/A	1PCS	
2	30AWG COAXIAL CABLE	FOXCONN	703-3000-291	703-3000-291		N/A	A/R	
3	PCB	競國	01-01000031-00	01-01000031-00		N/A	1PCS	
4	EVA SPONGE	上海方志	085-0003-631	085-0003-631		N/A	1PCS	

APPROVED BY: Darid Wang 2/17'03

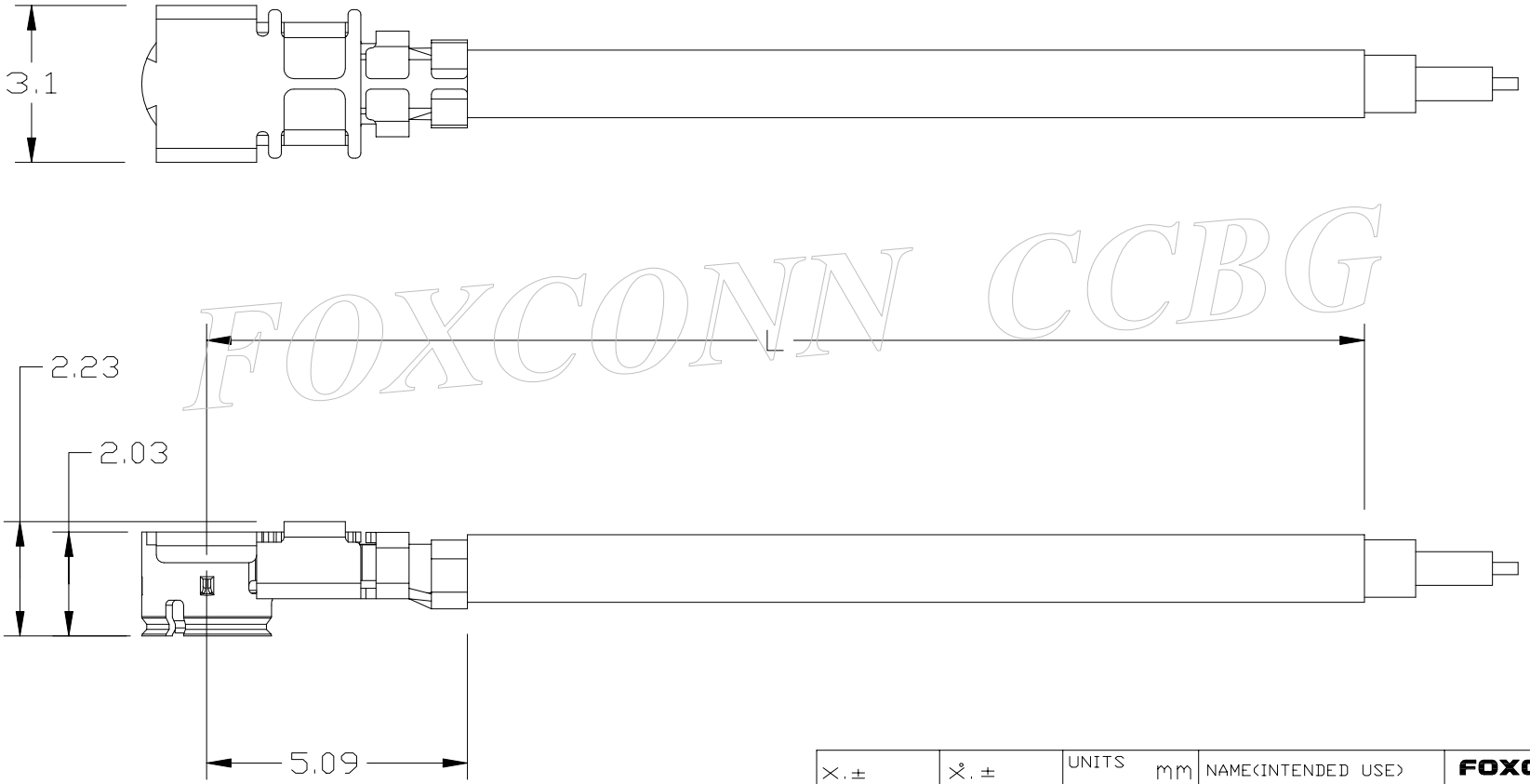
CHECKED BY: Roger cheng 2/17'03

PREPARED BY: LXF 2/17'03

REV.	ECN. NO.	APPD.
X6		D. KO

GENERAL SPECIFICATION:
1. CONTACT RESISTANCE: 20 MILIOHMS MAX.
2. INSULATION RESISTANCE: 500 MEGOHMS MIN.
3. WITHSTAND VOLTAGE: 200 Vac
4. V.S.W.R.: 1.2 OR LESS AT DC TO 3 GHz
5. OPERATION TEMPERATURE: -40°C TO 90 °C
6. The TOTAL HEIGHT OF RF CABLE ASSEMBLY WITH THE MATING HEADER IS 2.64mm .

RF CABLE ASSEMBLY MATERIAL:
1. CONTACT: COPPER ALLOY, GOLD PLATING
2. HOUSING: THERMOPLASTIC, UL 94V-0 RATED
3. METAL SHELL: COPPER ALLOY, SILVER PLATING
4. CABEL: DIAMETER 1.32mm ULTRA-FINE TEFLON COAXIAL CABLE
5. PART NO. MATRIX: SGX0001-00



X.±	X°.±	UNITS mm	NAME(INTENDED USE)	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.X± 0.1	.X°±	MAT'L SEE NOTES	PART NO.(INTENDED USE) SGX0001-00	TITLE: RF CABLE ASSEMBLY
.XX± 0.1	.XX°±	FINISH	APPD:	DWG NO.: EP00-082-01
.XXX±	.XXX°±	Q'TY	CHKD: D. KO	SCALE 10:1 / SHEET 1/2 / REV. X6
			DR: D. KO 10/10/00	

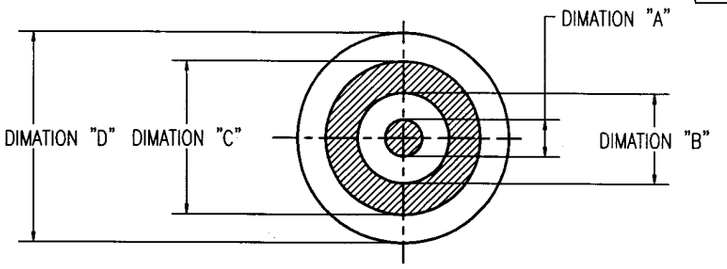
AWG	COMPOSITION (SOLID/MM)	DIM "A" (REF.)	DIM "B" (NOM.)	DIM "C" (REF.)	DIM "D" (NOM.)	PATER NO.
30	1/0.254	0.254	0.787	1.067	1.27	703-3000-291

ELECTRICAL		
IMPEDANCE	50	NOM. ohms
CAPACITANCE	30.5	NOM. pF/ft

FREQUENCY (GHZ)	0.5	1	2	3	4	5	6	PATER NO.
ATTENUATION (dB/10ft)/NOM.	3.5	5.5	8.5	10.5	12.5	15	16.5	703-3000-291

RATINGS	
TEMPERATURE:	200°C/105°C
VOLTAGE:	30V
UL STYLE:	1894/1943

REV.	ECN. NO.	APPD.
A	IC016307	Allen Cheng 12/21'01
B	IC022518	Allen Cheng 4/8'02



NOTES

1.MATERIAL
CONDUCTOR:SOLID SILVER PLATED COPPER CLAD STEEL
PRIMARY INSULATION:FEP
SHIELD:TINNED BRAID
JACKET:FEP

2.PRIMARY INSULATION CONCENTRICITY=85% MIN.

3.BRAIDING COVERAGE TO BE 95% MIN.

4.NN: JACKET COLOR CODE
00--BLACK 01--BROWN 02--RED 03--ORANGE 04--YELLOW
05--GREEN 06--BLUE 07--PURPLE 08--GRAY 09--WHITE
10--CLEAR 99--NATURAL

5.SPARK TEST AT 0.5 KVAC

6.DIELECTRIC STRENGTH: 0.5 KVAC/MIN.

7.JACKET CONCENTRICITY=80% MIN.

8.PART NO.:703-AANN-291
AA---CONDUCTION AWG
FOR EXAMPLE:

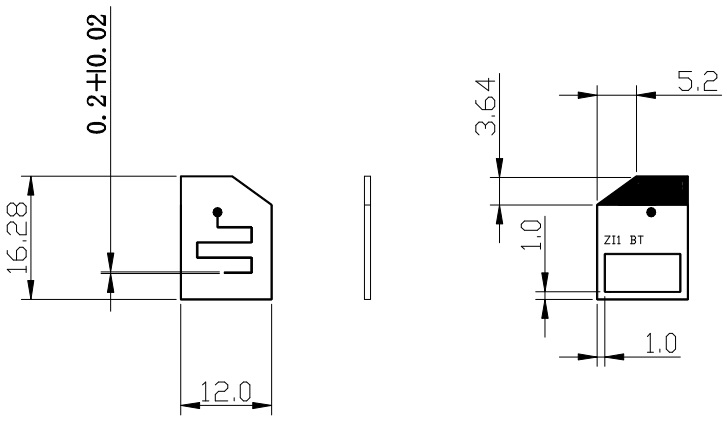
703-3000-291
30 AWG — BLACK COLOR
SOLID SILVER PLATED COPPER CLAD STEEL
FEP FOR TEFLON

X.±	X°±	UNITS MM	NAME(INTENDED USE) COAXIAL CABLE	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.X±	.X°±	MAT'L SEE BOM	PART NO.(INTENDED USE) 703-AANN-291	TITLE: RF CABLE
.XX±	.XX°±	FINISH	APPD: Allen Cheng 4/8'02	DWG NO.: 703-0000-290
.XXX±	.XXX°±	Q'TY	CHKD: Chris Zhou 4/8'02	SCALE NONE / SHEET 1/1 / REV. B
			DR: 項秋學4/8'02	

REV.	ECN. NO.	APPD.
X1		

NOTES : UNLESS OTHERWISE SPECIFIED.

1. DIMENSION SHALL BE INTERPRETED PER ANSI Y14.5M-1982.
2. ALL DIMENSIONS SHALL BE CHECKED.
3. HARMFUL MATERIAL CONTROL PLEASE FOLLOW DOC.NO."EPI12".

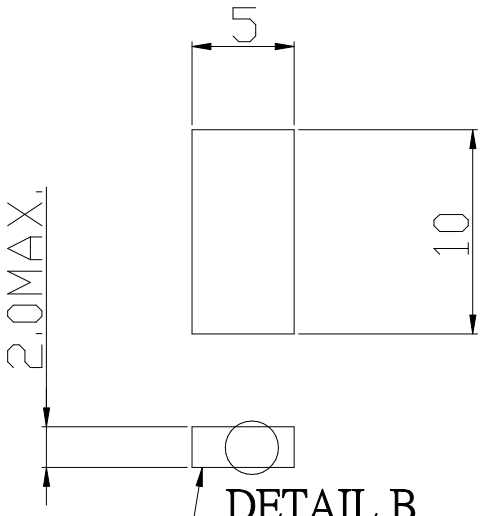


X.±	X.°±	UNITS mm	NAME(INTENDED USE) MANUFACTURING (FOR QUANTA ZI1)	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.X± 0.15	.X°±	MAT'L		
.XX±	.XX°±		PART NO.(INTENDED USE) 01-01000031-00	TITLE: PCB (FOR LEFT ANTENNA)
.XXX±	.XXX°±	FINISH	APPD: C.C Wang 01/21'03	DWG NO.: 01-01000031-00
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HON HAI PRECISION IND. CO., LTD. AND SHALL NOT BE REPRODUCED. COPIED OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF HON HAI PRECISION IND. CO., LTD.		Q'TY	CHKD: C.C Wang 01/21'03	SCALE N/A | SHEET 1/1 | REV. X1
			DR: Z.F Lin 01/21'03	

REV.	ECN. NO.	APPD.
A		

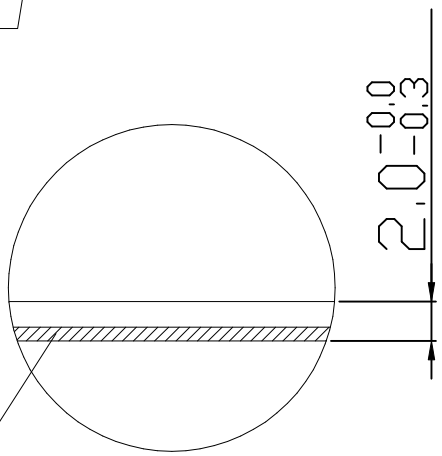
NOTES : UNLESS OTHERWISE SPECIFIED.

1. DIMENSION SHALL BE INTERPRETED PER ANSI Y14.5M-1982.
2. ALL DIMENSIONS SHALL BE CHECKED.
3. MATERIAL: SPONGE : EVA.
   COLOR : BLACK.
4. HARMFUL MATERIAL CONTROL PLEASE FOLLOW DOC.NO."EPI12".



DETAIL B

SONY T4000 ADHESIVE



SONY T4000 ADHESIVE

DETAIL B

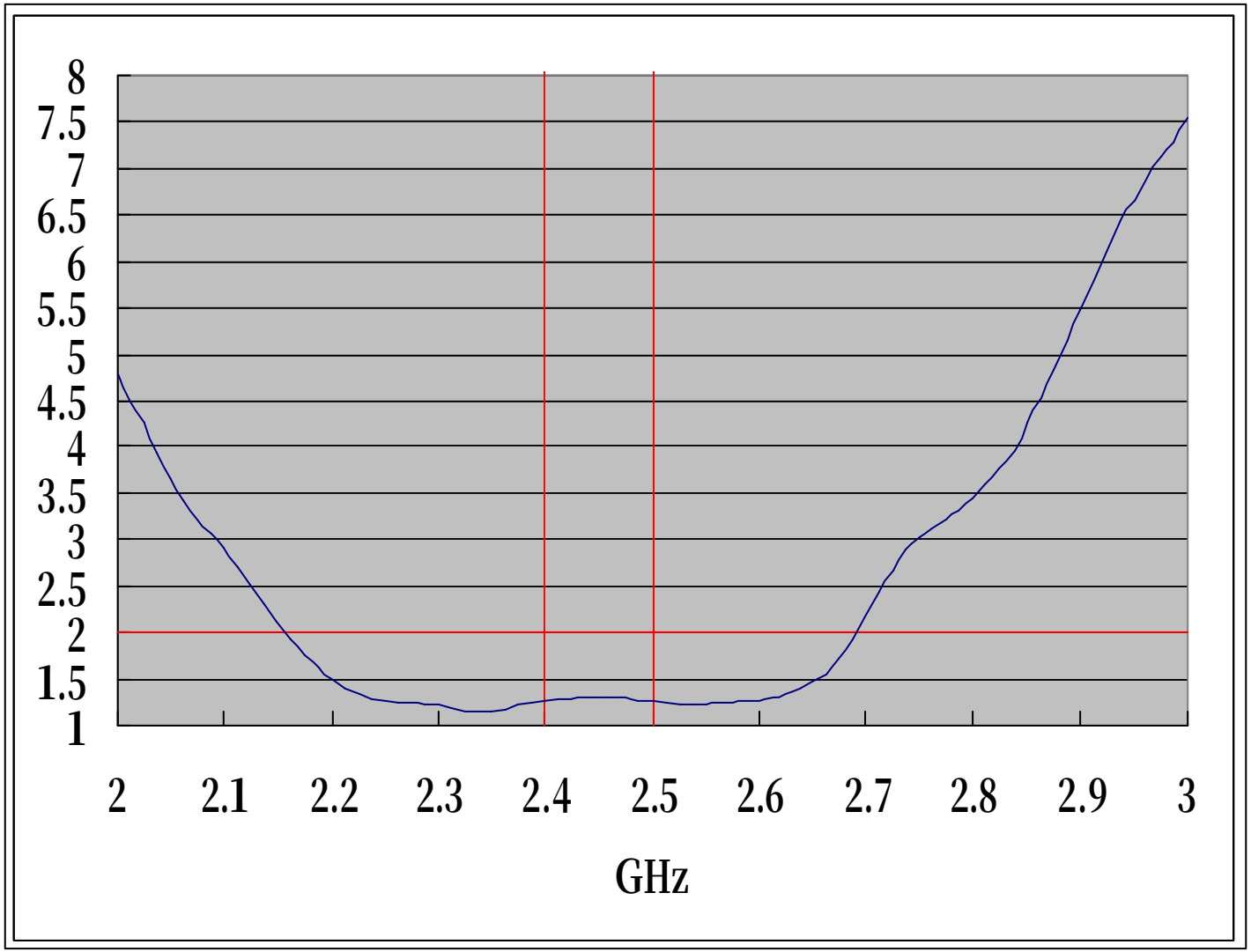
X.± 0.5	X.°±	UNITS mm	NAME(INTENDED USE) MANUFACTURING (FOR QUANTA ZI1)	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.X± 0.30	.X°±	MAT'L		
.XX±	.XX°±		PART NO.(INTENDED USE) 085-0003-631	TITLE: SPONGE TAPE (FOR BT)
.XXX±	.XXX°±	FINISH	APPD: C.C Wang 01/21'03	DWG NO.: 085-0000-631
		Q'TY	CHKD: C.C Wang 01/21'03	SCALE N/A / SHEET 1/1 / REV. A
			DR: Z.F Lin 01/21'03	

FOXCONN NWInG

Antenna Engineering Test Report

Quanta ZI1S BT Antenna

VSWR of Blue-tooth Antenna

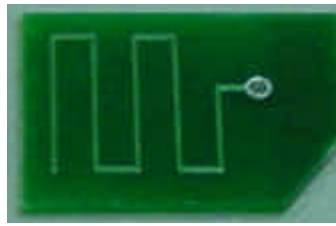


2.4GHz = 1.28

2.45GHz = 1.26

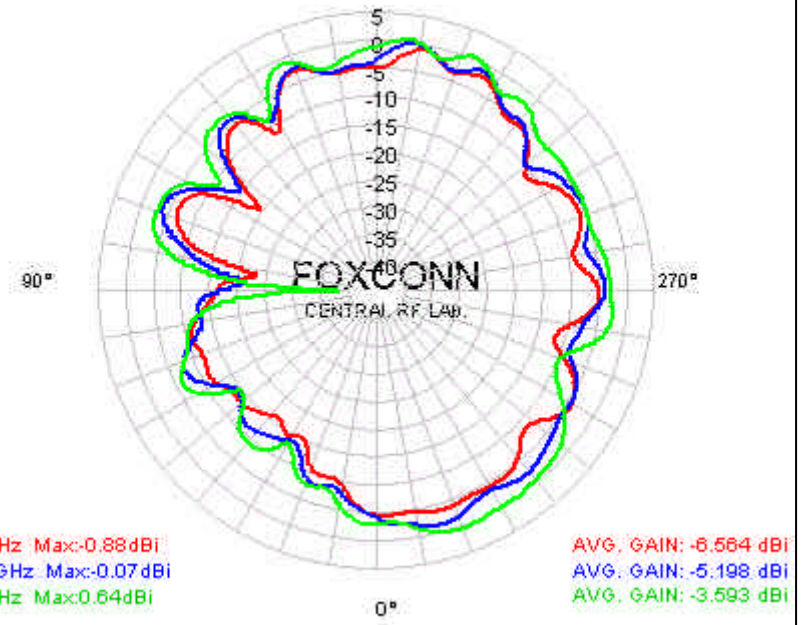
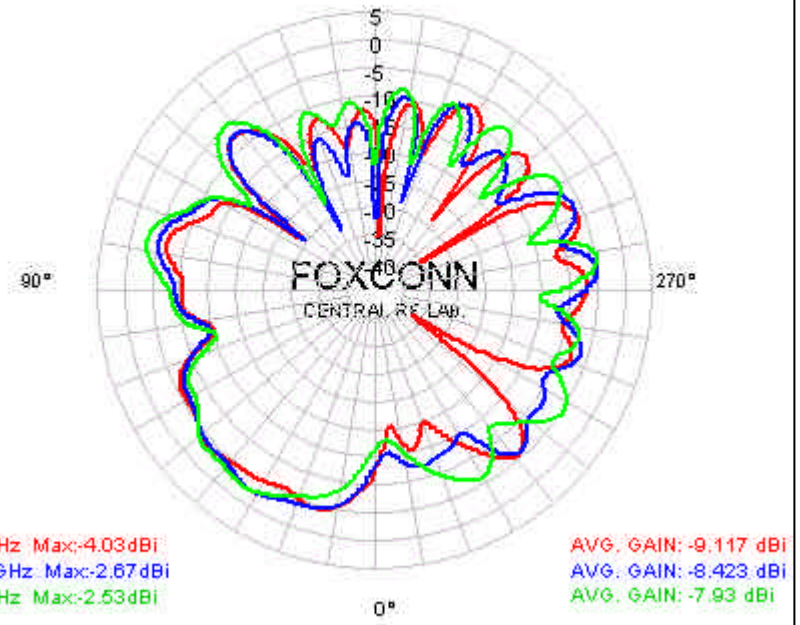
2.5GHz = 1.26

Cable length = 95mm



X-Y Plane Radiation Pattern of Blue-tooth Antenna

2.4GHz ~ 2.5GHz

HORIZONTAL POLARIZATION	VERTICAL POLARIZATION
	

X-Y Plane Gain of Blue-tooth Antenna

Average Gain

(dBi)	2400MHz	2450 MHz	2500 MHz
XY-H	-6.56	-5.20	-3.59
XY-V	-9.12	-8.42	-7.93
XY-AVG.	-4.65	-3.51	-2.23

Peak Gain

(dBi)	2400MHz	2450 MHz	2500 MHz
XY-right-H	-0.88	-0.07	0.64
XY-right-V	-4.03	-2.67	-2.53