

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	<u>605-0100-400</u>
2. DESIGN REVIEW FOR MATERIAL LIST	<u>ML-400</u>
3. PART DRAWING.....	<u>EP00-082-01</u>
	<u>703-0000-291</u>
	<u>01-01000031-00</u>
	<u>085-0000-631</u>

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

APPROVED SIGNATURES		

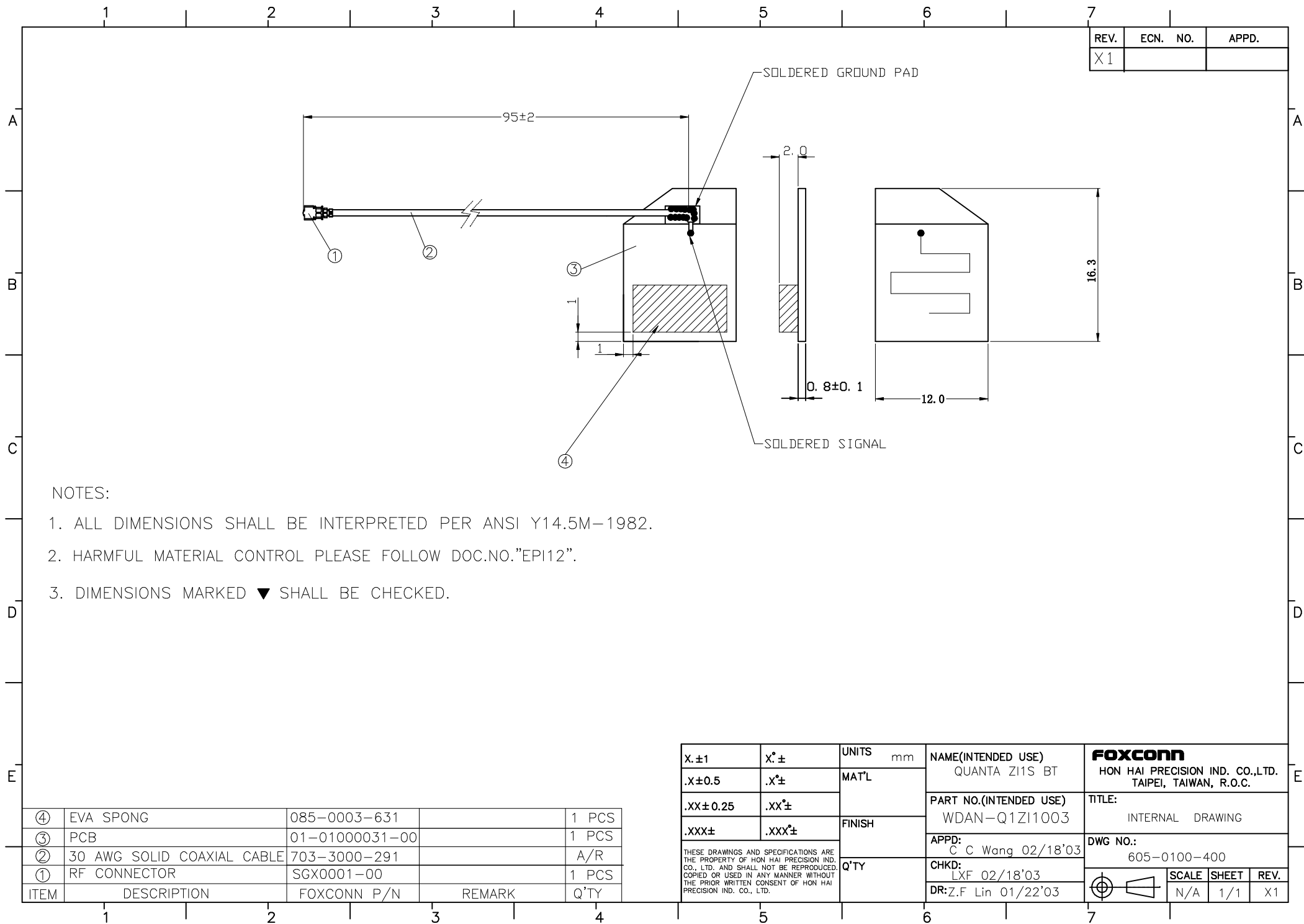


Hon Hai Precision Industry Co., Ltd.

2. TZU YU ST., TU-CHEN, TAIPEI HSIEN, 23606,
TAIWAN, R.O.C
TEL: (02) 2683466 (02) 2681477
TAIWAN, R.O.C
FAX: (02) 2687795 (02) 2683225
TLX: 32349 FOXCONNH
UNIFORM INVOICE NUMBER: 04541302

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

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



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

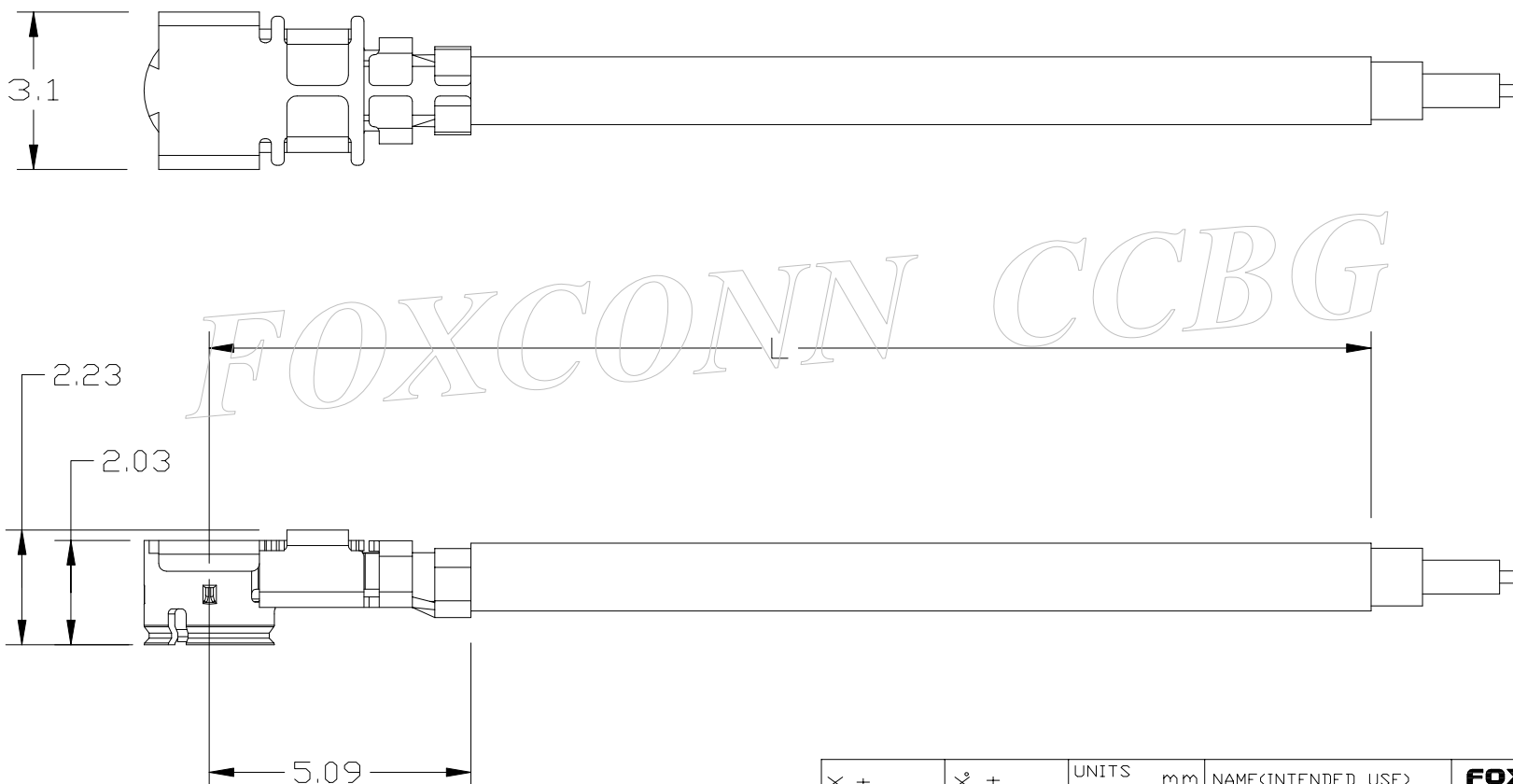
GENERAL SPECIFICATION:

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

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



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

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

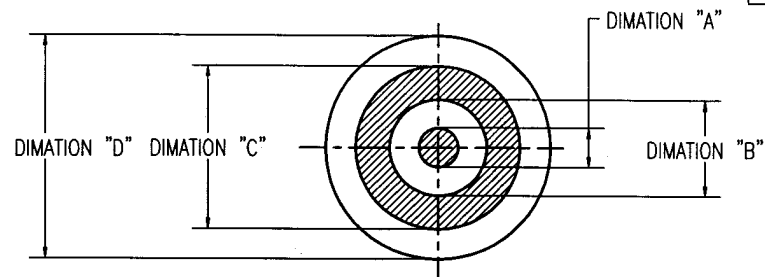
ELECTRICAL

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

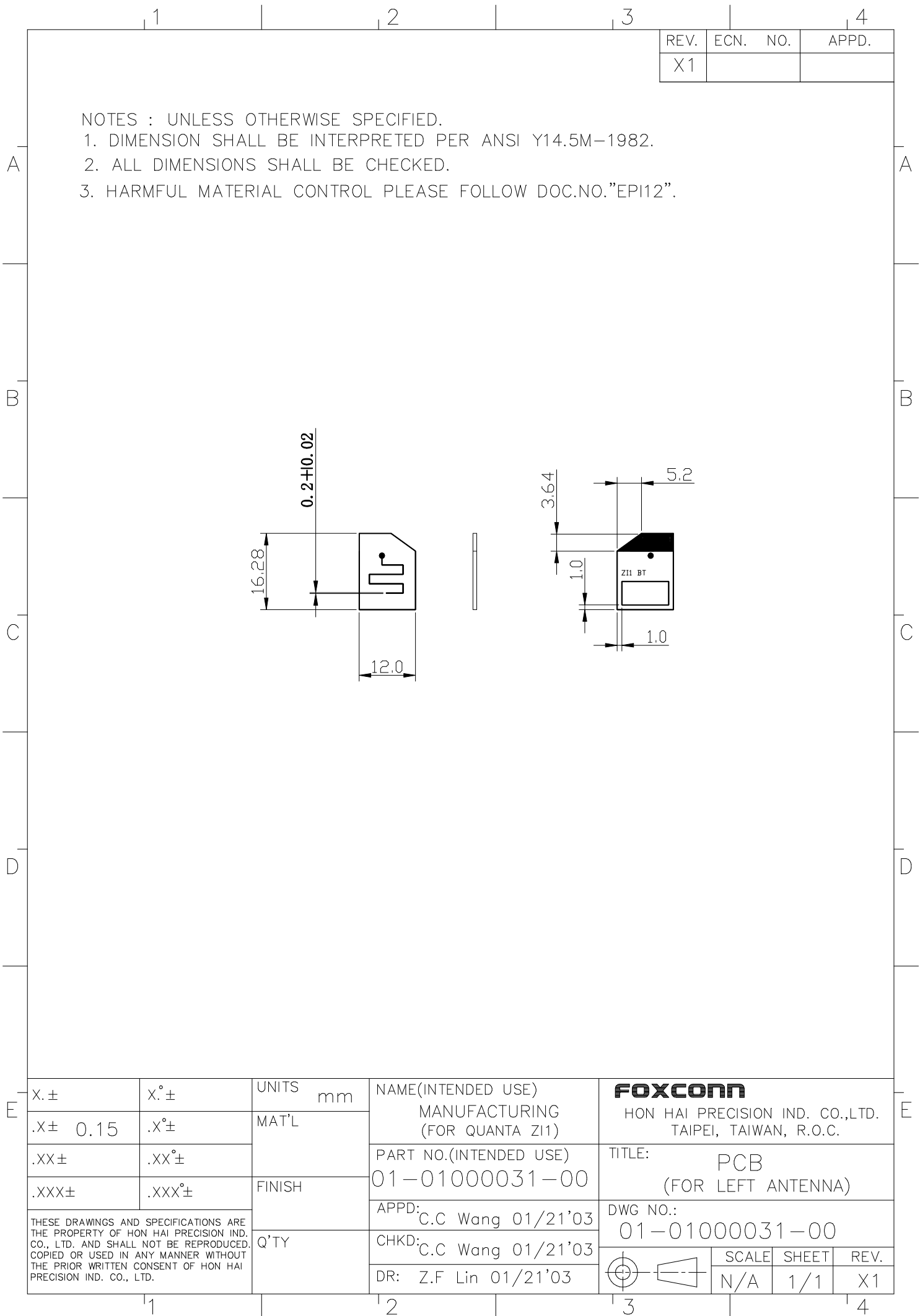


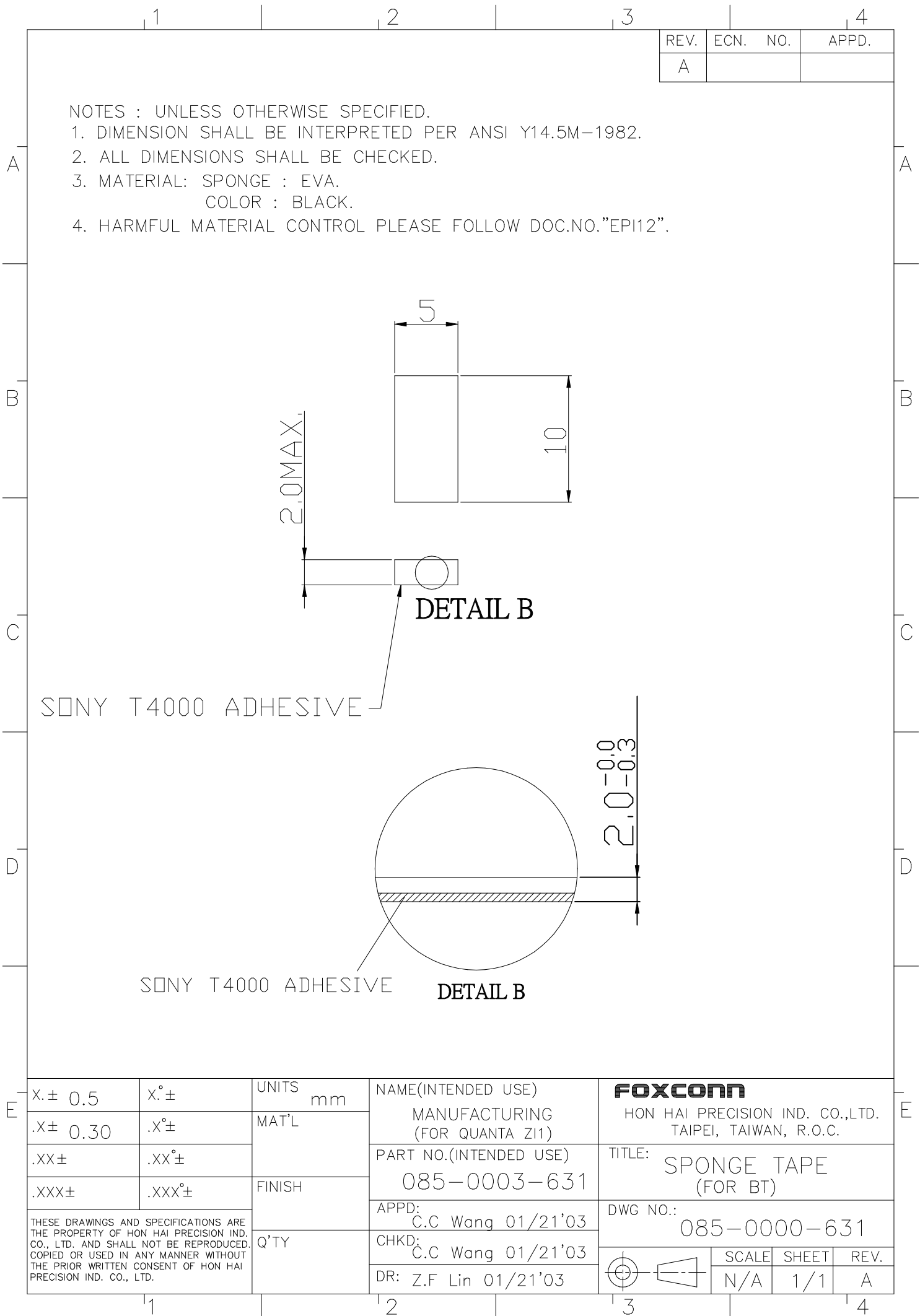
NOTES

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

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





FOXCONN NWInG

Antenna Engineering Test Report

Quanta ZI1S BT Antenna

VSWR of Blue-tooth Antenna

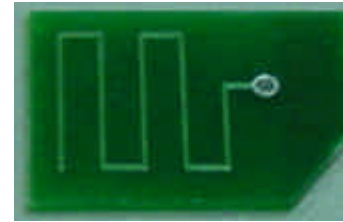


2.4GHz = 1.28

2.45GHz = 1.26

2.5GHz = 1.26

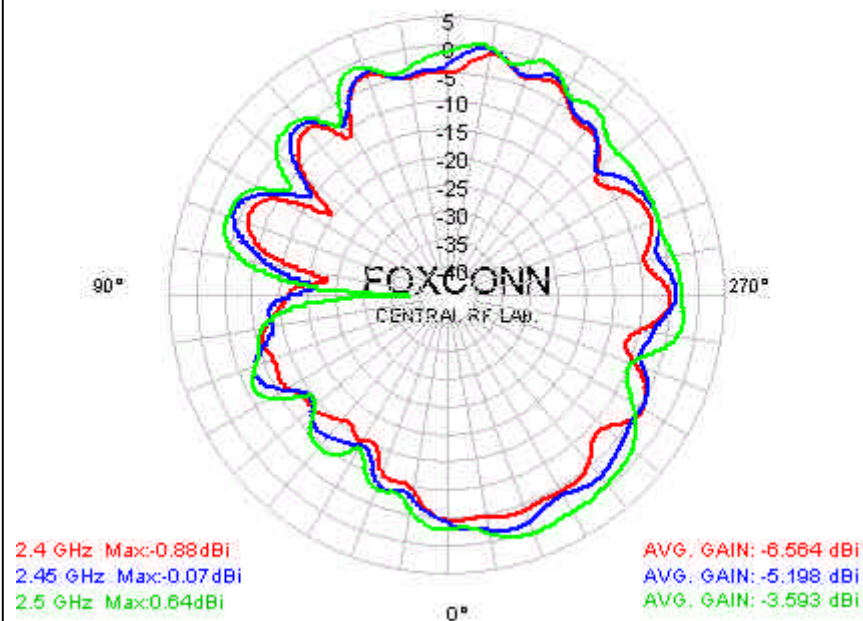
Cable length =
95mm



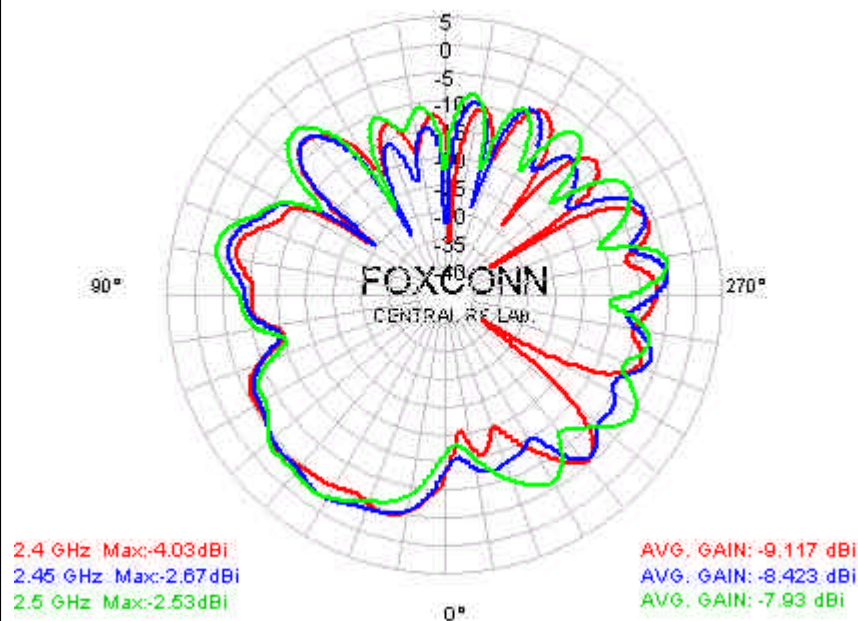
X-Y Plane Radiation Pattern of Blue-tooth Antenna

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