TO QUANTA COMPUTER CORPORATION
SPECIFICATION FOR APPROVAL

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

DESCRIPTION: RF CABLE ASS'Y

FOXCONN PROD NO: WDAN-Q1KT5002 REV.. AX1

ATTACHMENTS:

1. RF CABLE ASSEMBLY DRAWING 315-0900-098
2. DESIGN REVIEW FOR MATERIAL LIST... ML-098
3. PART DRAWING SGX0001-00
   703-3000-290
   014-0000-153
   040-0000-389

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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TLX: 32349 FOXCONNHH
UNIFORM INVOICE NUMBER: 04541302

Approved by: Sheng Checked by: _____ Prepared by: Paul Zhou

FILE NO.: SFA-098 REVISION NO.: AX1 DATE: Mac 5, 2002

DESIGN REVIEW FOR MATERIAL LIST

QUANTA P/N . TBD

NO : ML-098

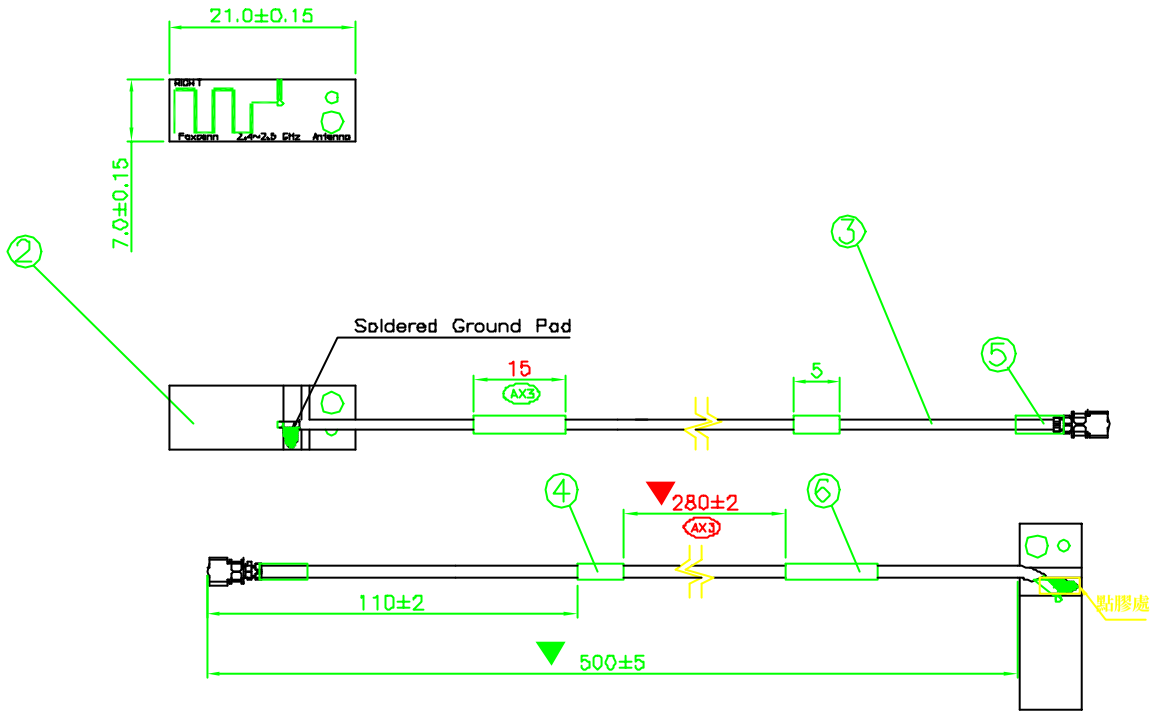
DESCRIPTION . RF CABLE ASS'Y

PAGE . 1/1

ITEM	DESCRIPTION	SUPPLIER/AGENCY						QUANTA PART NUMBER	QUANTITY	REMARK
		SUPPLIER	SUPPLIER PART NO.	FOXCONN PART NO.	AVL	UL SUBMIT	CSA SUBMIT			
1	COAXIAL CABLE	HITACHI OR	HCM-40309/1	014-3031-153		N/A	N/A		A/R	
		ACTUONE	703-3000-290	703-3000-290		N/A	N/A		A/R	
2	RF CONN.	FOXCONN	SGX0001-00	SGX0001-00		N/A	N/A		1 PC	
3	PCB (RIGHT)	FOXCONN	040-0002-893	040-0002-893		N/A	N/A		1 PC	

APPROVED BY: Sheng Tai 3/6/2002 CHECKED BY: _____ PREPARED BY. Paul Zhou 3/5/2002

REV.	ECN. NO.	CAUSE	APPD.
AX1	IC021338	NEW ISSUE	JC. YEN
AX2	IC024311	CHANGE H.S.TUBE TO ACETATE TAPE	C.C. WANG
AX3		ADD ACETATE TAPE FOR FIXED POSITION	Sheng Tai



NOTES:

1. ALL DIMENSIONS SHALL BE INTERPRETED PER ANSI Y14.5M-1982.
2. DIMENSIONS MARKED ▼ SHALL BE CHECKED.

	ITEM	DESCRIPTION	FOXCONN P/N	VENDOR P/N	Q'TY
AX3	⑥	ACETATE TAPE 15mm	081-0015-689	FOXCONN:081-0015-689	15mm
	⑤	H.S. TUBE(WHITE)	080-3101-620	FOXCONN:080-3101-620	3mm
	④	ACETATE TAPE(BLACK)	081-0005-689	FOXCONN:081-0005-689	5mm
	③	30AWG SOLID COAXIAL CABLE	014-3031-153	FOXCONN: 014-3031-153	A/R
			703-3000-290	FOXCONN: 703-30NN-290	A/R
	②	ANTENNA PCB	040-0002-893	FOXCONN: 040-0002-893	1 PCS
	①	RF CONNECTOR	SGX0001-00	FOXCONN: SGX0001-00	1 PCS

X.± 1	X.''±	UNITS mm	NAME(INTENDED USE) QUANTA KT1 Right Antenna	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.X± 0.1	.X''±	MAT'L	PART NO.(INTENDED USE) WDAN-Q1KT5002	TITLE: ANTENNA CABLE
.XX± 0.05	.XX'±	FINISH	APPD: C.C. WANG	DWG NO.: 315-0900-098
.XXX±	.XXX''±	Q'TY	CHKD:	SCALE N/A SHEET 1/1 REV. AX3

DR: Paul Zhou 06.04.'02

REV	ECN No.	APPD.	DATE
A	MC-01-0847	VINCENT	3/28'01
B	MC-01-0847	ALLEN	4/13'01
C	MC-01-1942		

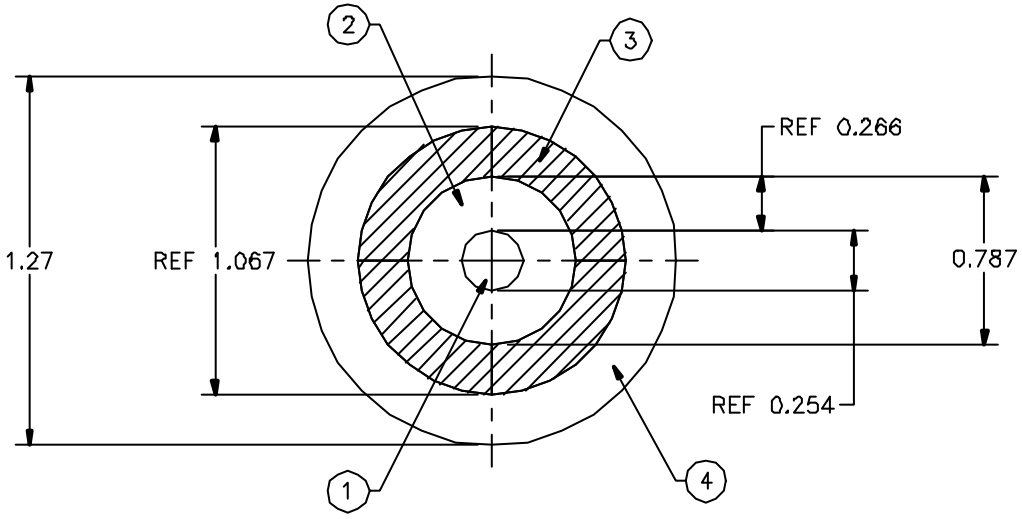
ELECTRICAL

IMPEDANCE	50	ohms
CAPACITANCE	30.5	pF/ft
CONDUCTOR RESISTANCE	860	ohms/KM

FREQUENCY (MHz)	ATTENUATION (dB/10ft)
500	3
1000	5
2000	8
3000	10

RATINGS

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



NOTES

1.PRIMARY INSULATION CONCENTRICITY = 85% MIN
2. 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
3 BRAIDING COVERAGE TO BE 95 % MIN.
4.DIELECTRIC STRENGTH:1.25KVAC/min
5 JACKET CONCENTRICITY = 80% MIN

ITEM	QTY	PART No	DESCRIPTION
4	A/R	902-***1-*24	JACKET INSULATION, FEP #
3	A/R	904-44**-616	6ENDS/ 44 AWG TINNED PLATED BRAIDING
2	A/R	902-***1-*24	PRIMARY INSULATION, FEP #
1	A/R	904-30**-851	30 AWG, SOLID SILVER PLATED COPPER CLAD STEEL

BILL OF MATERIALS

UNITS: mm
MATERIAL: SEE BOM
FINISH: SEE NOTES
QTY:

NAME(INTENDED USE): COAXIAL CABLE
PART No.(INTENDED USE): 703-30NN-290
DESIGN:
CHECKED:
DRAFTER: [redacted]

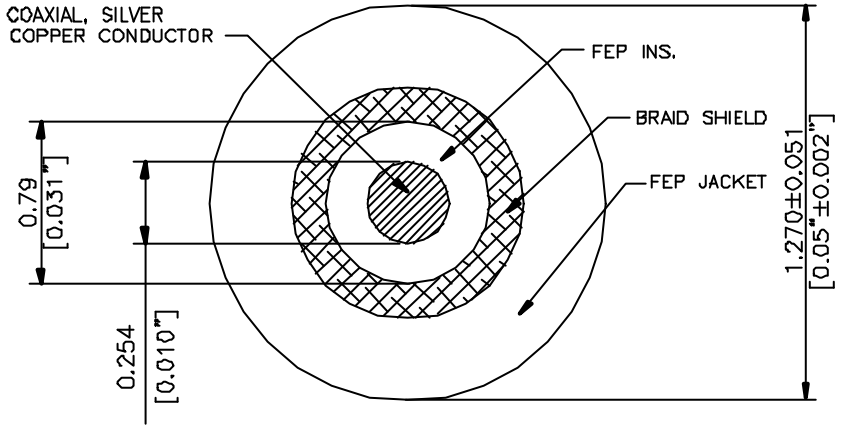
FOXCONN
HON HAI PRECISION IND CO.,LTD

TITLE: RF CABLE 30 AWG, CONSTRUCTION
DWG No. 703-3000-290

SCALE	SHEET	REV.
NONE	1/1	C

REV.	ECN. NO	APPD
D	MC001768	Lai 5/12/00

NOTES:
1. CAPACITANCE: 30.5 pF/FT.
2. CONDUCTOR RESISTANCE: 264 OHMS/M' AT 20°C.
3. CONDUCTOR: 30 AWG,SOLID SP COPPERWELD 0.010" NOM. OD.
4. INSULATION 30AWG, FEP, 0.031" OD., 0.0107" AVG WALL
5. BRAID SHIELD: 30AWG, 6 ENDS 44 AWG TINNED COPPER,95% MIN. COVERAGE.
6. JACKET: 30AWG, FEP,0.050"±0.002" OD., 0.004" AVG WALL.
7. TEMPERATURE RATING: -70°C~+200°C.
8. NO MARKING.



014-3031-153	HITACHI: HCM-40309/1	30AWG	BLACK
FOXCONN P/N	VENDOR & P/N	AWG	JACKET COLOR

X.±	X.°±	UNITS mm [INCH]	NAME(INTENDED USE)	FOXCONN HON HAI PRECISION IND. CO.,LTD. TAIPEI, TAIWAN, R.O.C.
.X±	.X°±	MAT'L		
.XX± 0.05	.XX°±		PART NO.(INTENDED USE)	TITLE: COAXIAL CABLE
.XXX±	.XXX°±	FINISH		
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			CHKD:	SCALE N/A | SHEET 1/1 | REV. D
			DR: Duke Du 1/17/2001	

REV.	ECN. NO.	APPD.
X2		D. KO

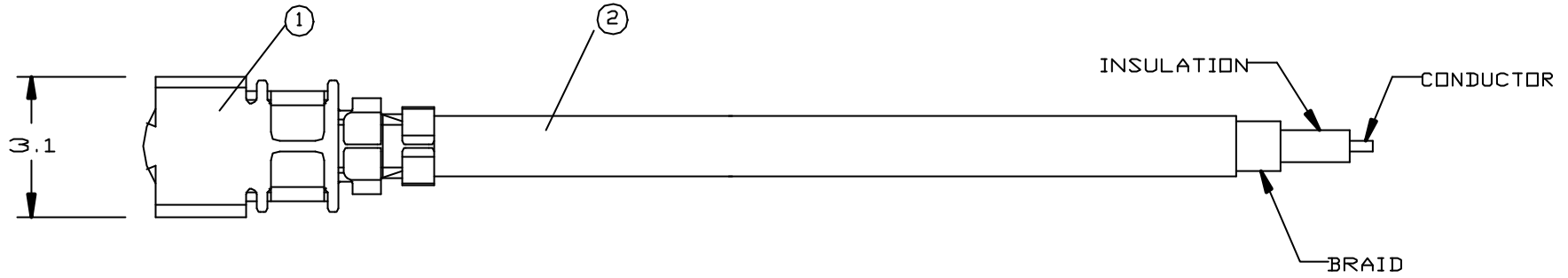
SCALE 10.000

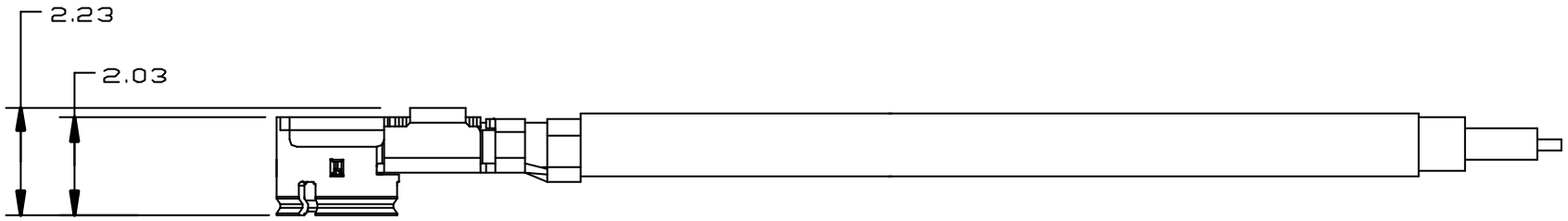
GENERAL SPECIFICATION:

1. CONTACT RESISTANCE: 20 MILIOHMS MAX.
2. INSULATION RESISTANCE: 500 MEGOHMS MIN.
3. WITHSTAND VOLTAGE 200 Vac
4. CONNECTOR V.S.W.R.: 1.3 OR LESS AT DC TO 3 GHz
5. OPERATION TEMPERATURE: -40°C TO 90°C

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. CABLE: 30AWG&32AWG SOLID COAXIAL CABLE.
5. PART NO. MATRX: SGX0001-00





ITEM	PART NAME	FOXCONN PART NO.	EQUIVALENT VENDOR & PART NO.	Q'TY
2	WIRE	703-3000-291	30AWG SOLD COAXIAL CABLE	A/R
1	RF CONN.	SGX0001-00	FOXCONN: EP01-025-001	1 PCS

X.±	X̊.±	UNITS mm	NAME(INTENDED USE) SGX0001-00
.X± 0.1	.X̊±	MAT'L SEE NOTES	PART NO.(INTENDED USE) SGX0001-00
.XX± 0.1	.XX̊±	FINISH	APPD: D. KO
.XXX±	.XX̊X̊±		CHKD:
		Q'TY	DR: D. KO 12/2/00

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

TITLE: RF CABLE ASSEMBLY

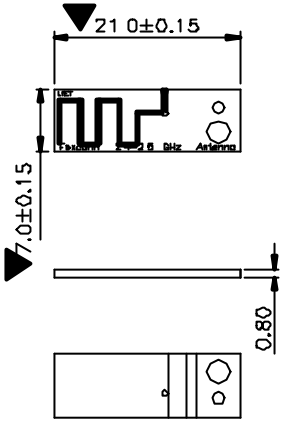
DWG NO.: EP01-025-001

SCALE	SHEET	REV.
10:1	1/1	X2

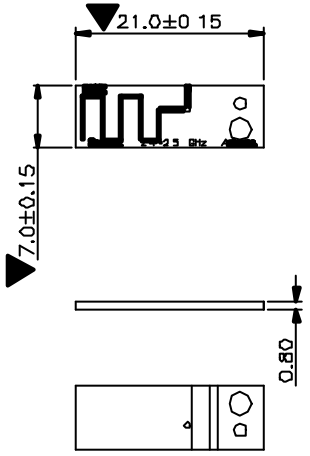
REV.	ECN. NO.	APPD.
X1		

NOTES:

1. ALL DIMENSIONS SHALL BE INTERPRETED PER ANSI Y14.5M-1982.
2. DIMENSIONS MARKED ▼ SHALL BE CHECKED.
3. PCB'S MATERIAL : FR-4. THICKNESS 0.8MM.



I



II

ITEM	P/N	TYPE
2	040-0002-893	II
1	040-0001-893	I

X.±	X.'±	UNITS mm	NAME(INTENDED USE) FOR QUANTA KT5	FOXCONN HON HAI PRECISION IND. CO.,LTD TAIPEI, TAIWAN, R.O.C.
x± ±0.2	x'±	MAT'L 3	PART NO.(INTENDED USE)	TITLE: PCB ANTENNA
.xx± ±0.1	.xx'±	FINISH	APPD: Sheng Tai 3/5/06	DWG NO.: 040-0000-893
.XXX±	.XXX'±	Q'TY	CHKD:	SCALE N/A / SHEET 1/1 / REV. X1
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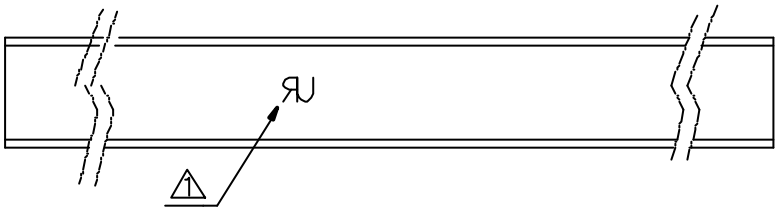
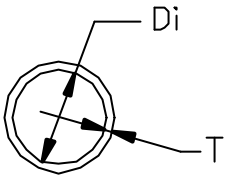
NOTES:
⚠1 UL MARKING.
2. RATING : UL 224, 125°C, 600V, VW-1
CSA, 125°C, 600V, OFT
3. DIELECTRIC STRENGTH · 500 V/MIL.
4. VOLUME RESISTIVITY : 10^{14} OHM-CM.
5. TENSILE STRENGTH : 10.3 MPa (1500 psi) MIN..
6. PART NO. MATRIX: 080- A B CC - 620
A: EQUIVALENT VENDER & PRODUCT
A=0: SUMITUBE F2-*
A=1: FAVORTRON FVC-2-*
A=2: SUMITUBE F32-*
A=3: CHANGBAO 102-*
A=4: SUMITUBE F4-*
A=5: HB T*ø
B. COLOR
B=0: BLACK.
B=1: WHITE.
B=2: RED.
B=3: BLUE.
B=4: GREEN.
B=5: YELLOW.
B=6: ORANGE.
B=7: PURPLE.
B=8: GRAY
CC: INSIDE DIMENSION ID.

REV.	ECN. NO.	APPD.
A	HC95121	JEFF C. 1/20/95
B	HC96190	C. CHEN 2/7/96
C	HC96670	C. CHEN 5/7/96
D	HC961695	CHARLES
E	HC971231	C. CHEN 6/18'97
F	MC991918	LAI 5/31'99
G	MC993360	LAI 10/16'99
H	MC001163	LAI 4/11'2000
K		





X.±	X.°±	UNITS mm	NAME(INTENDED USE)
.X± 0.2	.X°±	MAT'L	
.XX± 0.15	.XX°±		PART NO.(INTENDED USE)
.XXX±	.XXX°±	FINISH	
			APPD: H.C.ZHENG 6/15'2001
		Q'TY	CHKD:
			DR: H.C.ZHENG 6/15'2001

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

TITLE: HEAT SHRINKABLE TUBE

DWG NO.: 080-0000-620

SCALE	SHEET	REV.
N/A	1/2	K

REV.	ECN. NO.	APPD

Part Number ⑥	Inside Diameter, Di (min.)	Wall Thickness, T (nomi.)	Inside Diameter, Di (max.)	Wall Thickness, T (min.)
	As Supplied		After Shrinkage	
080-**25-620	0.8	0.13	0.4	0.20
080-**24-620	14.0	0.30	7.0	0.64
080-**23-620	1.0	0.20	0 5	0 33
080-**22-620	50.0	0.40	25.0	0.87
080-**21-620	38.0	0.40	19.0	0.87
080-**20-620	30.0	0.40	15.0	0.87
080-**19-620	25 0	0.40	12.5	0 87
080-**18-620	22 0	0.40	11.0	0 77
080-**17-620	20.0	0.35	10.0	0.77
080-**16-620	18.0	0.35	9.0	0.77
080-**15-620	16.0	0.30	8.0	0.69
080-**14-620	12 0	0.25	6 0	0 56
080-**13-620	11.0	0.25	5.5	0.56
080-**12-620	10.0	0.25	5.0	0.56
080-**11-620	9.0	0.25	4.5	0.56
080-**10-620	8.0	0.25	4 0	0 56
080-**09-620	7.0	0.25	3 5	0.56
080-**08-620	6.0	0.25	3.0	0.56
080-**07-620	5.0	0.25	2.5	0.56
080-**06-620	4.0	0.25	2.0	0.44
080-**05-620	3.5	0.25	1 75	0 44
080-**04-620	3.0	0.25	1.50	0.44
080-**03-620	2.5	0.25	1.25	0.44
080-**02-620	2.0	0.25	1.00	0.44
080-**01-620	1.5	0.20	0 75	0 36

X.±	X°±
.X± 0.2	.X°±
.XX± 0.15	.XX°±
.XXX±	XXX°±

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UNITS mm

MAT'L

FINISH

Q'TY

NAME(INTENDED USE)

PART NO.(INTENDED USE)

APPD: H.C.ZHENG 6/15'2001

CHKD:

DR: H.C.ZHENG 6/15'2001

FOXCONN

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

TITLE: HEAT SHRINKABLE TUBE

DWG NO.: 080-0000-620

SCALE	SHEET	REV.
N/A	2/2	K

Quanta KT1,5 Antenna

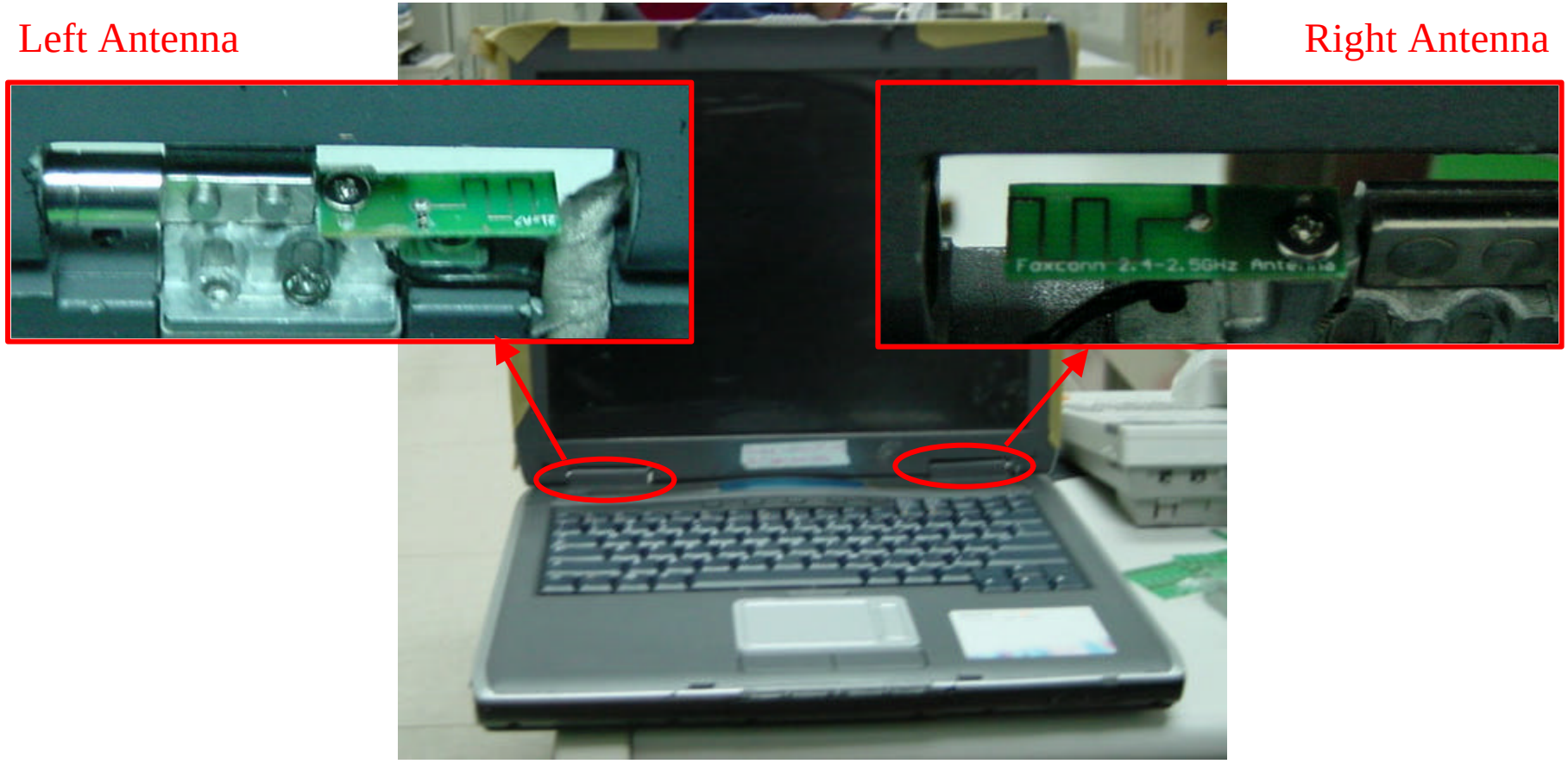
Test Report

Sheng Tai

Antenna Location

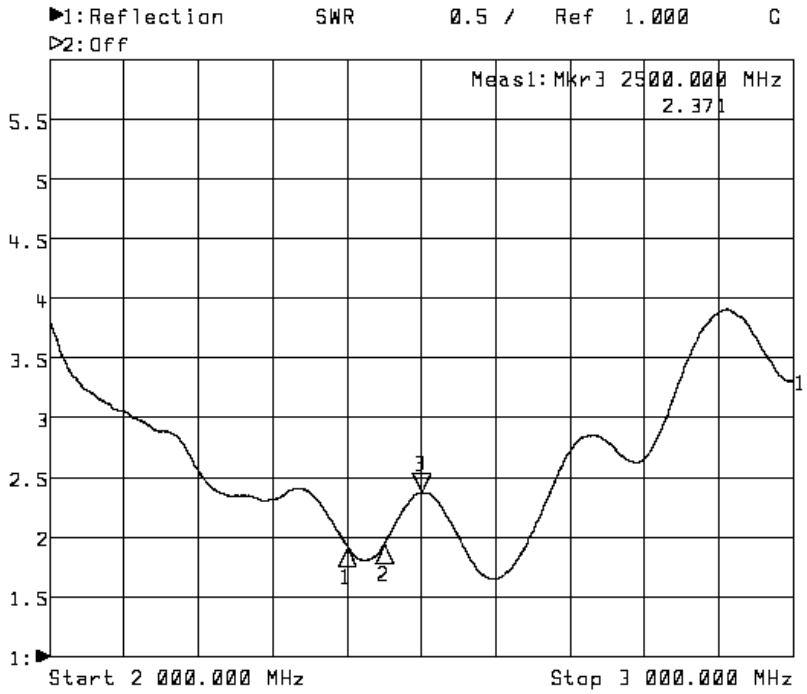
Left Antenna

Right Antenna



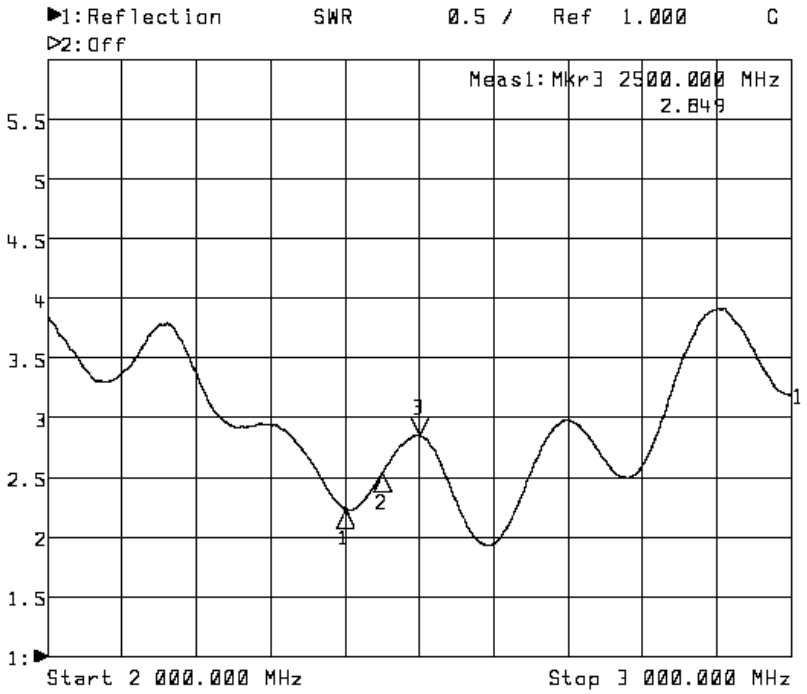
VSWR For Right 14” LCD

1. LCD Open



1:Mkr (MHz)		2:Mkr (MHz)	dB
1:	2400.0000	1.917	
2:	2450.0000	1.940	
3>	2500.0000	2.371	

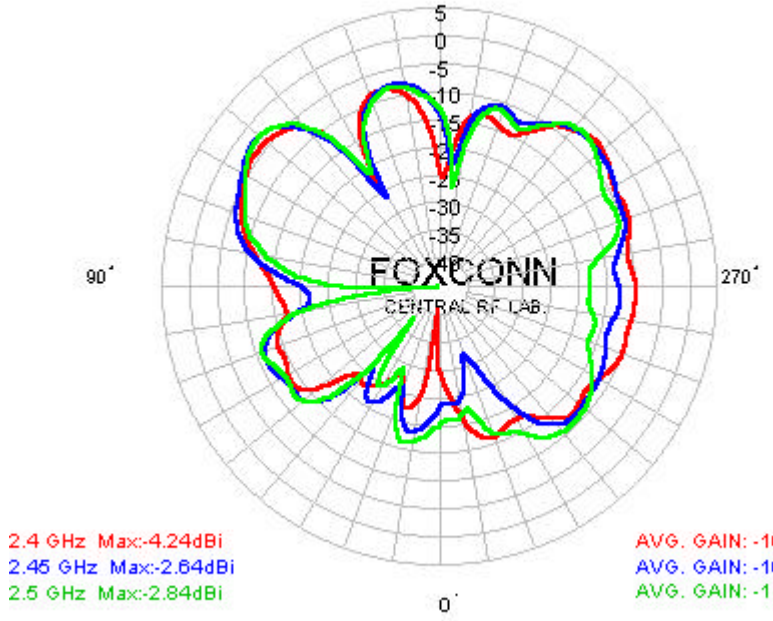
2. LCD Close



1:Mkr (MHz)		2:Mkr (MHz)	dB
1:	2400.0000	2.234	
2:	2450.0000	2.539	
3>	2500.0000	2.849	

XY Plane Radiation Pattern For Right 14” LCD (Open)

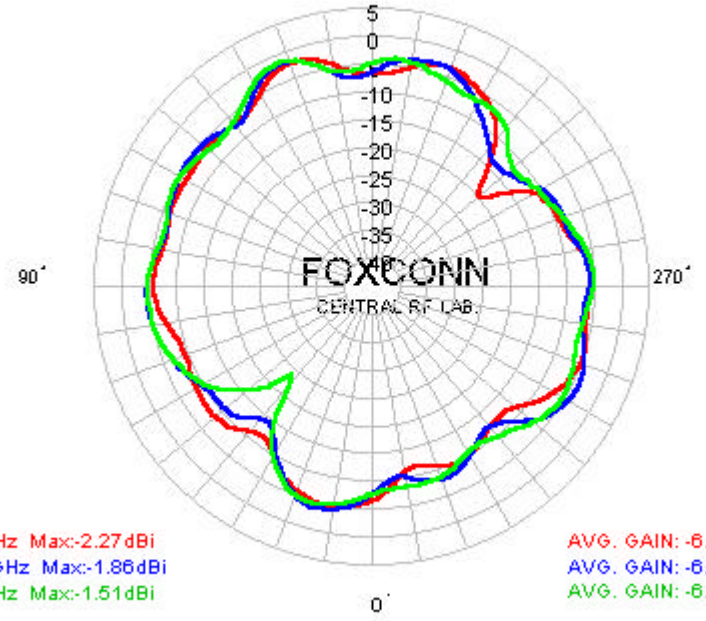
HORIZONTAL POLARIZATION



2.4 GHz Max:-4.24dBi
2.45 GHz Max:-2.64dBi
2.5 GHz Max:-2.84dBi

AVG. GAIN: -10.917 dBi
AVG. GAIN: -10.579 dBi
AVG. GAIN: -11.13 dBi

VERTICAL POLARIZATION



2.4 GHz Max:-2.27dBi
2.45 GHz Max:-1.86dBi
2.5 GHz Max:-1.51dBi

AVG. GAIN: -6.772 dBi
AVG. GAIN: -6.335 dBi
AVG. GAIN: -6.355 dBi

Average Gain For Right 14” LCD Antenna

(Open)

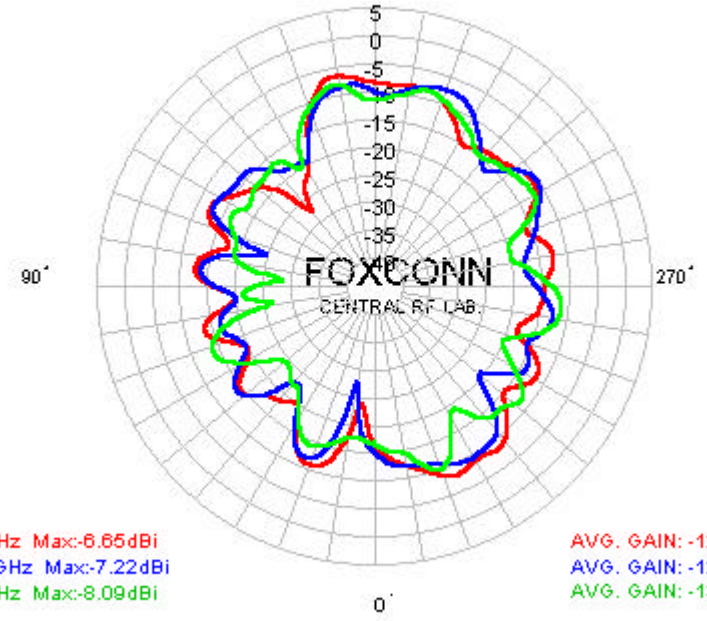
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.91	-10.57	-11.13
XY--V	-6.77	-6.33	-6.35
Total Average Gain	-5.35	-4.94	-5.10

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.24	-2.64	-2.84
XY--V	-2.27	-1.86	-1.51

XY Plane Radiation Pattern For Right 14” LCD (Close)

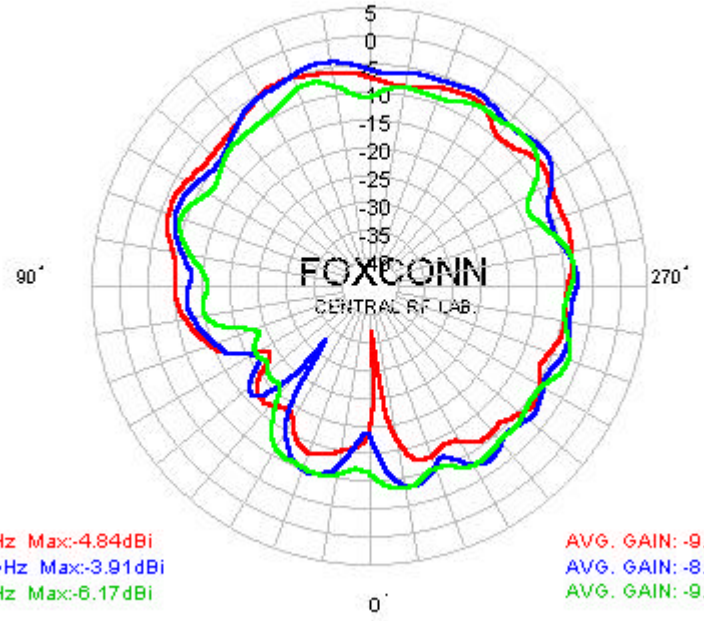
HORIZONTAL POLARIZATION



2.4 GHz Max:-6.65dBi
2.45 GHz Max:-7.22dBi
2.5 GHz Max:-8.09dBi

AVG. GAIN: -12.352 dBi
AVG. GAIN: -12.828 dBi
AVG. GAIN: -13.867 dBi

VERTICAL POLARIZATION



2.4 GHz Max:-4.84dBi
2.45 GHz Max:-3.91dBi
2.5 GHz Max:-6.17dBi

AVG. GAIN: -9.188 dBi
AVG. GAIN: -8.294 dBi
AVG. GAIN: -9.687 dBi

Average Gain For Right 14” LCD Antenna

(Close)

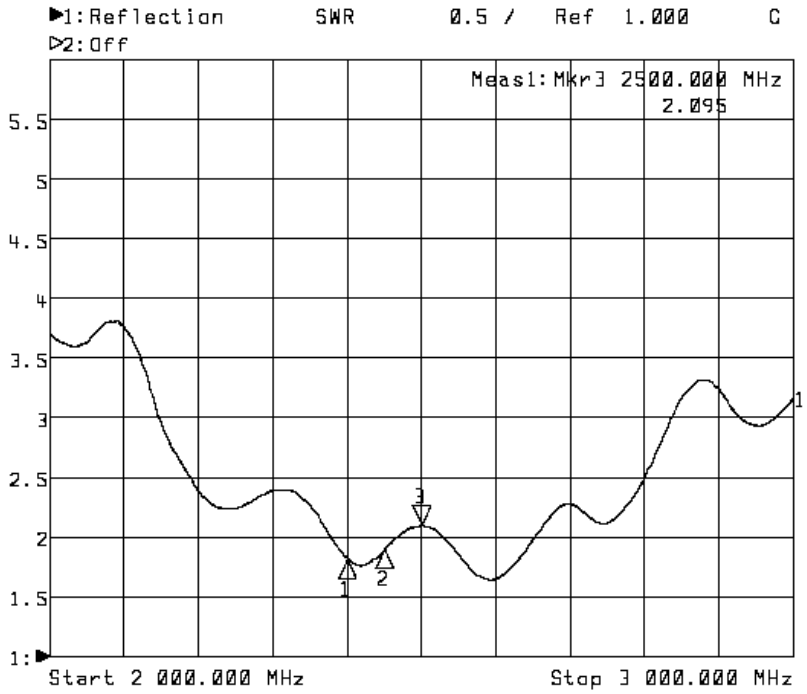
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.35	-12.82	-13.86
XY--V	-9.18	-8.29	-9.68
Total Average Gain	-7.47	-6.98	-8.28

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.65	-7.22	-8.09
XY--V	-4.84	-3.91	-6.17

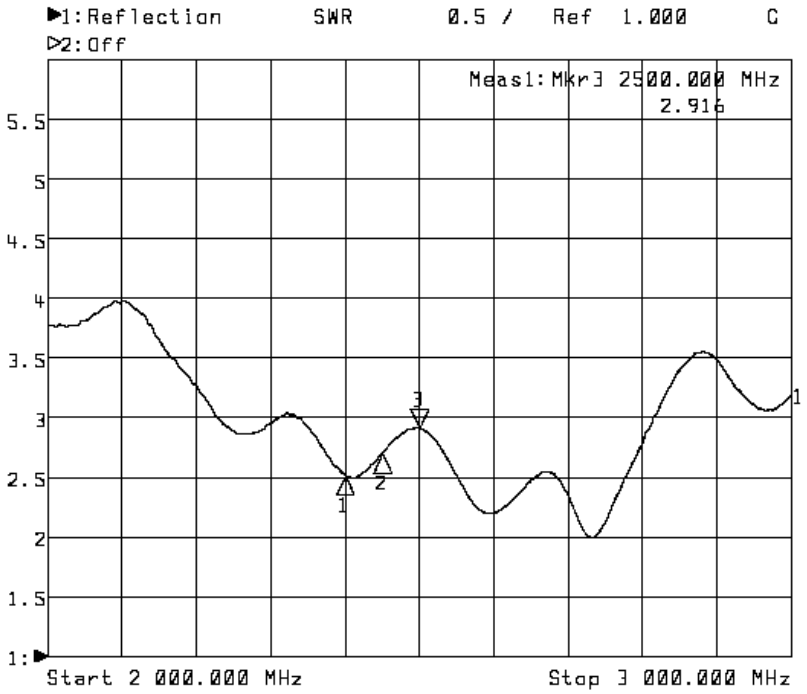
VSWR For Right 15” LCD

1. LCD Open



1:Mkr (MHz)		2:Mkr (MHz) dB
1: 2400.0000	1.816	
2: 2450.0000	1.894	
3> 2500.0000	2.095	

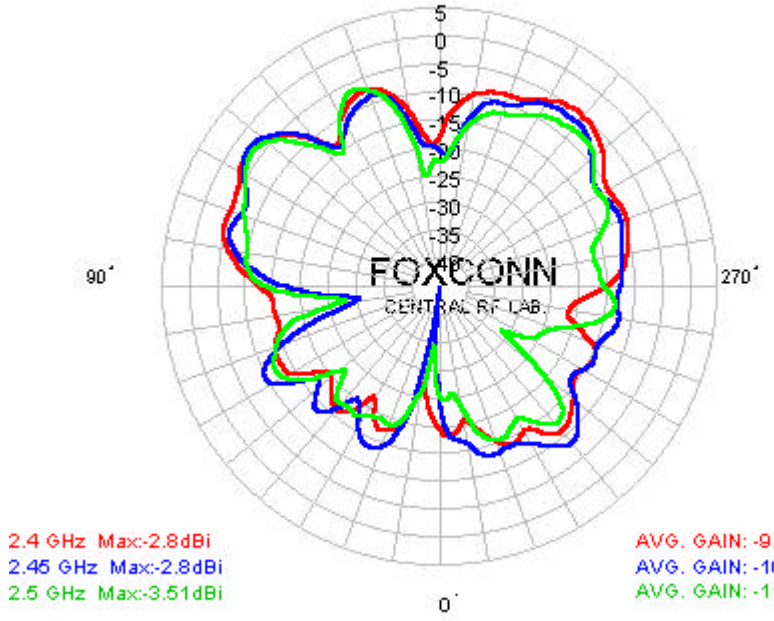
2. LCD Close



1:Mkr (MHz)		2:Mkr (MHz) dB
1: 2400.0000	2.510	
2: 2450.0000	2.705	
3> 2500.0000	2.916	

XY Plane Radiation Pattern For Right 15” LCD (Open)

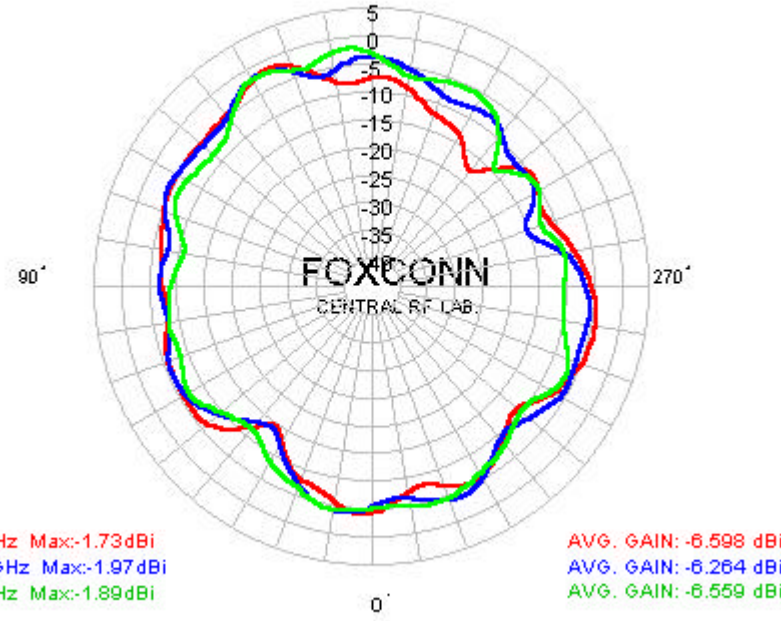
HORIZONTAL POLARIZATION



2.4 GHz Max:-2.8dBi
2.45 GHz Max:-2.8dBi
2.5 GHz Max:-3.51dBi

AVG. GAIN: -9.922 dBi
AVG. GAIN: -10.499 dBi
AVG. GAIN: -11.83 dBi

VERTICAL POLARIZATION



2.4 GHz Max:-1.73dBi
2.45 GHz Max:-1.97dBi
2.5 GHz Max:-1.89dBi

AVG. GAIN: -6.598 dBi
AVG. GAIN: -6.264 dBi
AVG. GAIN: -6.559 dBi

Average Gain For Right 15” LCD Antenna

(Open)

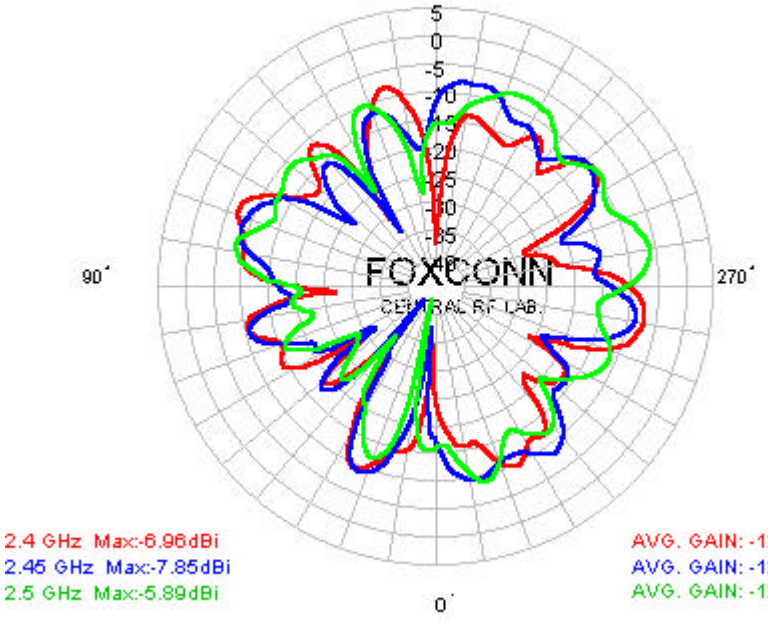
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-9.92	-10.49	-11.83
XY--V	-6.59	-6.26	-5.55
Total Average Gain	-4.93	-4.87	-4.63

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.80	-2.80	-3.51
XY--V	-1.73	-1.97	-1.89

XY Plane Radiation Pattern For Right 15” LCD (Close)

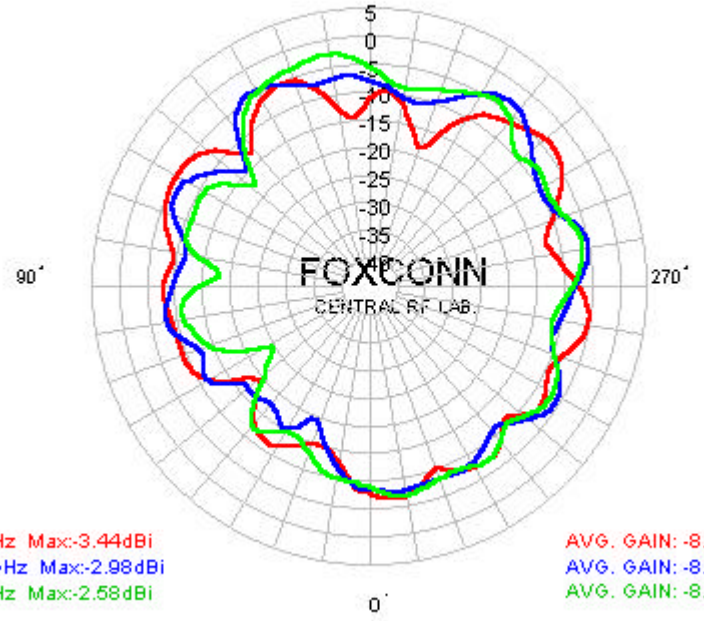
HORIZONTAL POLARIZATION



2.4 GHz Max:-6.96dBi
2.45 GHz Max:-7.85dBi
2.5 GHz Max:-5.89dBi

AVG. GAIN: -12.993 dBi
AVG. GAIN: -12.684 dBi
AVG. GAIN: -12.154 dBi

VERTICAL POLARIZATION



2.4 GHz Max:-3.44dBi
2.45 GHz Max:-2.98dBi
2.5 GHz Max:-2.58dBi

AVG. GAIN: -8.214 dBi
AVG. GAIN: -8.153 dBi
AVG. GAIN: -8.162 dBi

Average Gain For Right 15” LCD Antenna

(Close)

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.99	-12.68	-12.15
XY--V	-8.21	-8.15	-8.16
Total Average Gain	-6.96	-6.84	-6.70

PEAK GAIN

(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.96	-7.85	-5.89
XY--V	-3.44	-2.98	-2.58

Summary Of Total Average Gain

14" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.51	-9.77	-9.98
XY--V	-6.70	-6.16	-6.21
Total Average Gain	-5.19	-4.59	-4.69

15" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-11.26	-11.55	-12.90
XY--V	-6.05	-5.93	-6.03
Total Average Gain	-4.91	-4.88	-5.22

14" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-8.34	-8.17	-8.10
XY--V	-13.21	-11.87	-11.13
Total Average Gain	-7.11	-6.63	-6.35

15" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-8.35	-7.80	-7.23
XY--V	-11.55	-10.86	-10.15
Total Average Gain	-6.65	-6.06	-5.44

14" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-10.91	-10.57	-11.13
XY--V	-6.77	-6.33	-6.35
Total Average Gain	-5.35	-4.94	-5.10

15" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-9.92	-10.49	-11.83
XY--V	-6.59	-6.26	-5.55
Total Average Gain	-4.93	-4.87	-4.63

14" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.35	-12.82	-13.86
XY--V	-9.18	-8.29	-9.68
Total Average Gain	-7.47	-6.98	-8.28

15" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-12.99	-12.68	-12.15
XY--V	-8.21	-8.15	-8.16
Total Average Gain	-6.96	-6.84	-6.70

Summary Of Peak Gain

14" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.57	-4.20	-4.99
XY--V	-1.23	-0.95	-6.00

15" LCD Open (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.86	-4.94	-4.74
XY--V	-2.10	-1.57	-0.65

14" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.17	-3.32	-3.49
XY--V	-7.90	-6.54	-6.48

15" LCD Close (Left)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.25	-2.96	-2.60
XY--V	-4.27	-3.93	-6.22

14" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-4.24	-2.64	-2.84
XY--V	-2.27	-1.86	-1.51

15" LCD Open (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-2.80	-2.80	-3.51
XY--V	-1.73	-1.97	-1.89

14" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.65	-7.22	-8.09
XY--V	-4.84	-3.91	-6.17

15" LCD Close (Right)			
(dBi)	2400 MHz	2450 MHz	2500 MHz
XY-H	-6.96	-7.85	-5.89
XY--V	-3.44	-2.98	-2.58