# **Antenna Specification Sheet**

Item	Remark		
Product Name	Helical Antenna		
Antenna Model Name	WE-2400PO		
Frequency Band	2400 MHz ~ 2485 MHz		
Antenna Gain	1.0 dBi (Peak Gain)		
Connector Type	Reverse Polarity SMA Connector		

# [Location within EUT]



Model Name         WE-2400PO         Date         March 11. 2004           System         Bluetooth, WLAN         Written by           Electrical Specifications           Frequency         2400 ~ 2485 (MHz)           Band Width         85 (MHz)           V.S.W.R         1.9 : 1           Gain (max)         1 (dBi)           Input Impedance         50 (Ω)           Polarization         Linear, Vertical           Mechanical Specifications           Size         30mm X 9mm (W x D)           Weight         3.5(g)           Radiator Material         Copper           Operation Temperature         -30 ~ 70 (℃)           Operation Humidity         10 ~ 90 (%)	Object	Helical Ante	nna	REV.	IR	Page	1 of 8	
Electrical Specifications  Frequency 2400 ~ 2485 (MHz)  Band Width 85 (MHz)  V.S.W.R 1.9:1  Gain (max) 1 (dBi)  Input Impedance 50 (ℚ)  Polarization Linear, Vertical  Mechanical Specifications  Size 30mm X 9mm (W x D)  Weight 3.5(g)  Radiator Material Copper  Operation Temperature -30 ~ 70 (℃)  Operation Humidity 10 ~ 90 (%)	Model Name	WE-2400P	o	Date March 11. 2004				
Frequency   2400 ~ 2485 (MHz)	System	Bluetooth, W	LAN					
Band Width  V.S.W.R  1.9:1  Gain (max)  Input Impedance  Folarization  Mechanical Specifications  Size  30mm X 9mm (W x D)  Weight  3.5(g)  Radiator Material  Copper  Operation Temperature  -30 ~ 70 (℃)  Operation Humidity  10 ~ 90 (%)		Elect	rical Specifications					
V.S.W.R  Gain (max)  Input Impedance  Folarization  Mechanical Specifications  Size  30mm X 9mm (W x D)  Weight  3.5(g)  Radiator Material  Copper  Operation Temperature  -30 ~ 70 (℃)  Operation Humidity  10 ~ 90 (%)		Frequency	240	00 ~ 2485	(MHz	<u>:</u> )		
Gain (max)       1 (dBi)         Input Impedance       50 (Ω)         Polarization       Linear, Vertical         Mechanical Specifications         Size       30mm X 9mm (W x D)         Weight       3.5(g)         Radiator Material       Copper         Operation Temperature       -30 ~ 70 (℃)         Operation Humidity       10 ~ 90 (%)		Band Width		85 (MH	z)			
Input Impedance     50 (Ω)       Polarization     Linear, Vertical       Mechanical Specifications       Size     30mm X 9mm (W x D)       Weight     3.5(g)       Radiator Material     Copper       Operation Temperature     -30 ~ 70 (℃)       Operation Humidity     10 ~ 90 (%)		V.S.W.R		1.9 : 1	<u> </u>			
Polarization       Linear, Vertical         Mechanical Specifications         Size       30mm X 9mm (W x D)         Weight       3.5(g)         Radiator Material       Copper         Operation Temperature       -30 ~ 70 (℃)         Operation Humidity       10 ~ 90 (%)		Gain (max)		1 (dBi	)			
Mechanical Specifications       Size     30mm X 9mm (W x D)       Weight     3.5(g)       Radiator Material     Copper       Operation Temperature     -30 ~ 70 (℃)       Operation Humidity     10 ~ 90 (%)	ı	nput Impedance		<b>50 (</b> Ω)	)			
Size $30\text{mm X 9mm (W x D)}$ Weight $3.5(g)$ Radiator MaterialCopperOperation Temperature $-30 \sim 70  (^{\circ}\!$		Polarization	L	inear, Ve	rtical			
Weight $3.5(g)$ Radiator MaterialCopperOperation Temperature $-30 \sim 70 \ (^{\circ}\mathbb{C})$ Operation Humidity $10 \sim 90 \ (\%)$		Mech	anical Specifications					
Radiator MaterialCopperOperation Temperature $-30 \sim 70 \ (^{\circ})$ Operation Humidity $10 \sim 90 \ (\%)$		Size	30m	m X 9mm	(W x	D)		
Operation Temperature  -30 ~ 70 (℃)  Operation Humidity  10 ~ 90 (%)		Weight		3.5(g)	)			
Operation Humidity 10 ~ 90 (%)	F	Radiator Material		Coppe	er			
	Operation Temperature -30 ~ 70				(℃)			
Option	0	peration Humidity		10 ~ 90	(%)			
	0							

Fig 1. VSWR

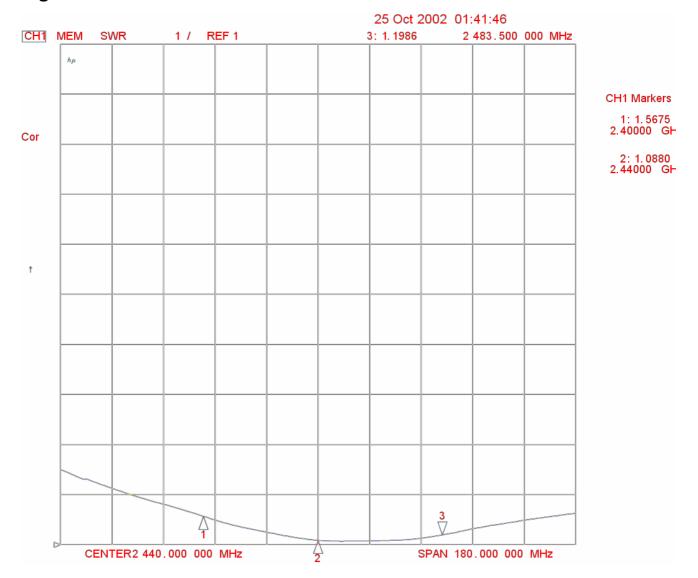


Fig 2. Return loss

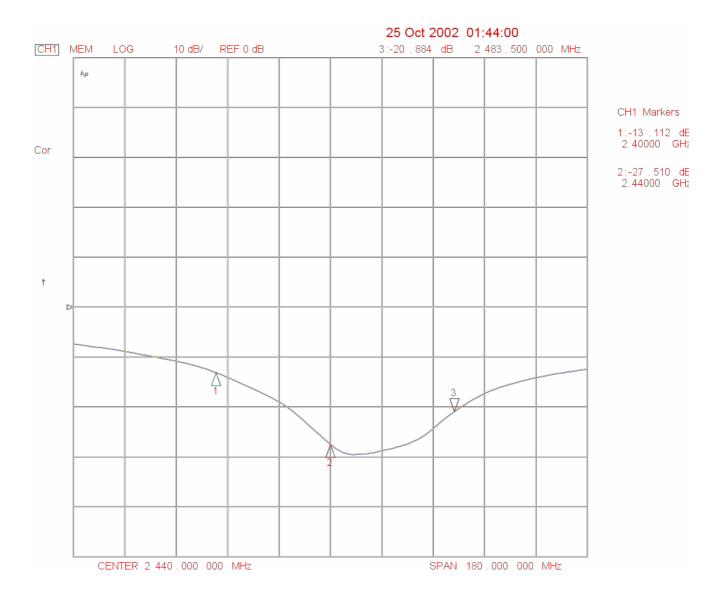
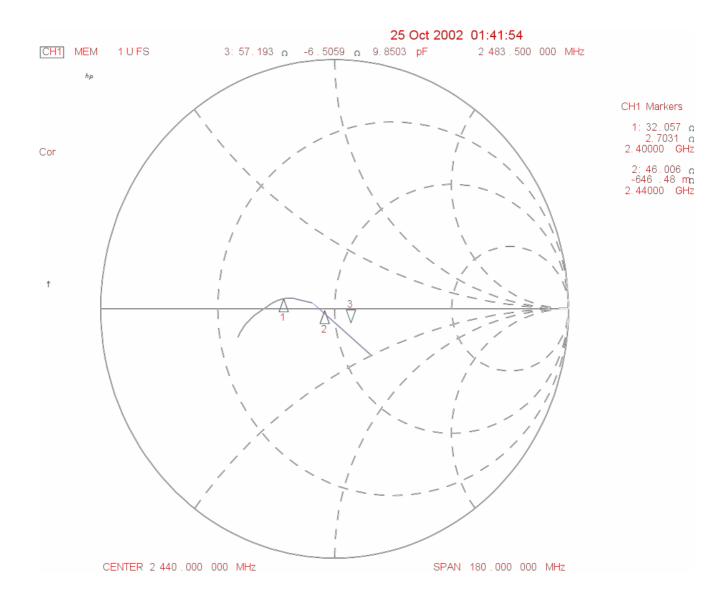
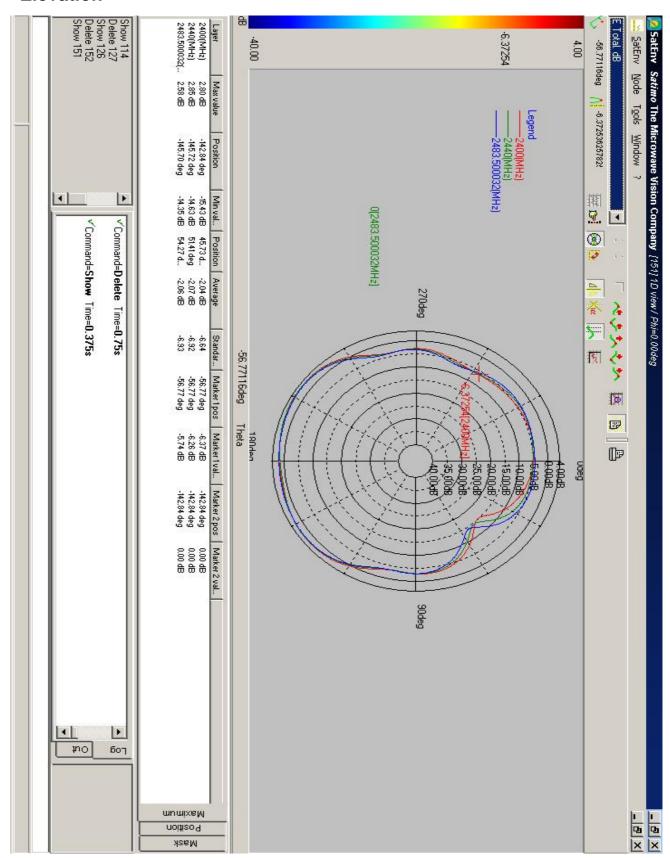


Fig 3. Smith Chart



#### Fig 4. Radiation Pattern

### **Elevation**



### **Azimuth**

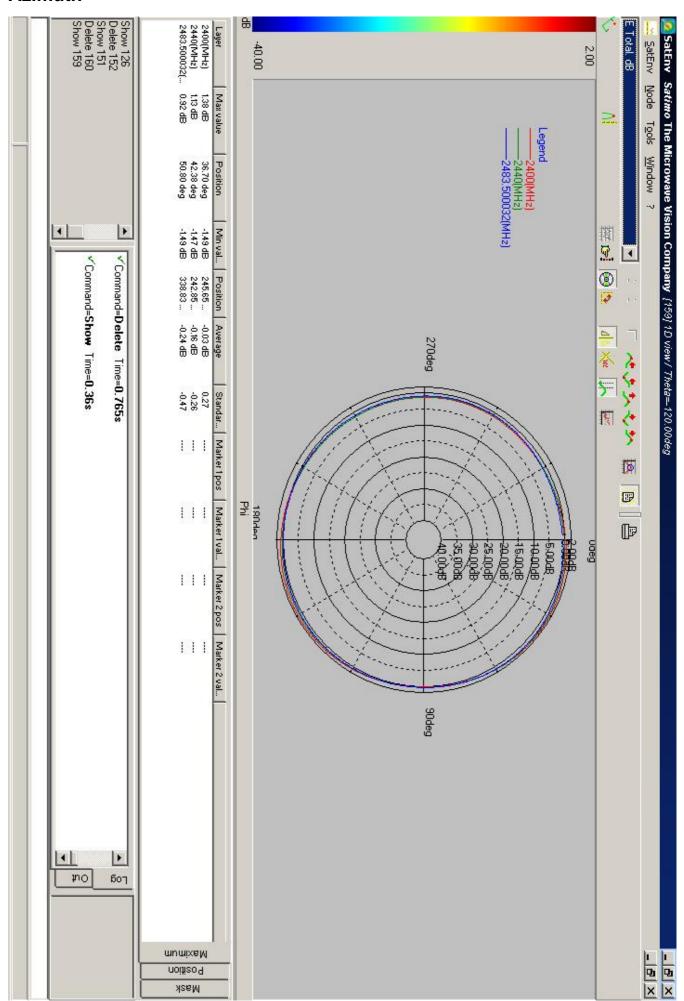


Fig 5. Mechanical Drawing

