

WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)
DONGGUAN AEON TECH CO.,LTD.(CHINA)
TAI HWA ELECTRONIC CO., LTD.(CHINA)
SHANGHAI HUA YU ELECTRONIC CO., LTD.(CHINA)
SU ZHOU AEON TECH CO., LTD. (CHINA)

### SPECIFICATION FOR APPROVAL

CUSTOMER: 吉翁電子(深圳)有限公司
PART NAME: RF Antenna Assembly

PART NO.: REVISION:

W. Y. P/NO.: K181--510049-A REV.: X1

	MANUFACT SIGNATU	i	CUSTOMER SIGNATURE
APPROVED BY:	京美台森 3	1000	
DATE :	1000000000000000000000000000000000000	J007. >. 7	

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### **RF Antenna Cable Assembly**

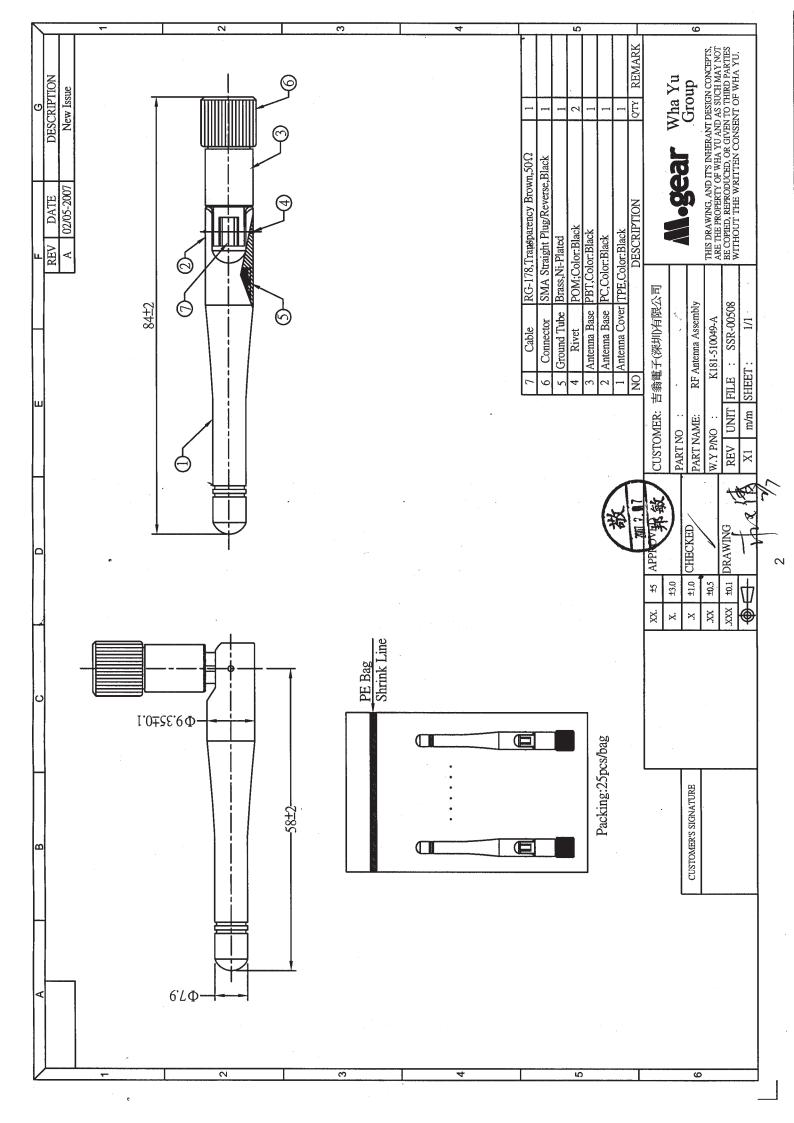
### **Specification**

### 1. Electrical Properties:

- 1.1 Frequency Range...... 2.4GHz ~ 2.5GHz
- 1.2 Impedance ......  $50\Omega$  Nominal
- 1.4 Return Loss.....-10 dB Maximum
- 1.5 Radiation..... Omni-directional
- 1.6 Gain(peak)......2.0dBi
- 1.7 Polarization.....Linear Vertical
- 1.8 Admitted Power..... 1W

### 2. Physical Properties:

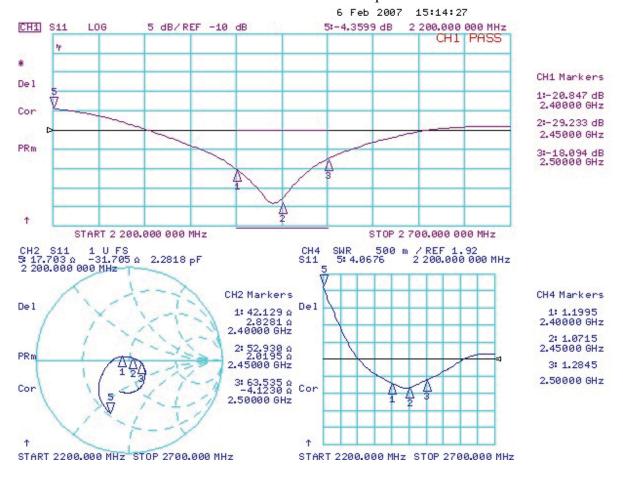
- 2.1 Cable......RG-178 Coaxial Cable
- 2.2 Antenna Cap..... TPE
- 2.3 Upper Fixed..... PC
- 2.4 Bottom Fixed.....PBT
- 2.5 Operating Temp. .....-20°C  $\sim +65$ °C
- 2.6 Storage Temp. ..... $-30^{\circ}$ C  $\sim +75^{\circ}$ C
- 2.7 Color .......Black
- 2.8 Connector...... SMA Straight Plug Reverse



## M.gear Wha Yu Group

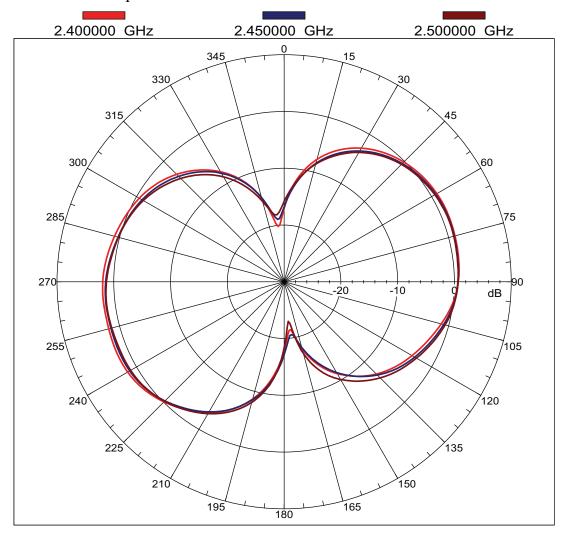
### RF Antenna Assembly

P/No. K181-510049-A SSR-00508 Spec: 2.4~2.5GHz



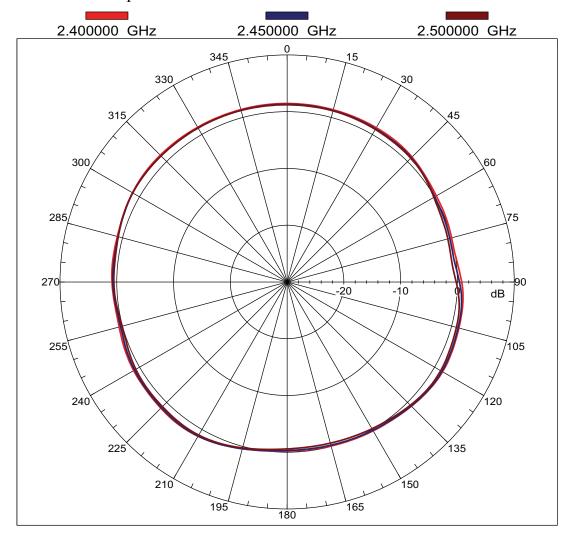
# M.gear Wha Yu Group

Far-field amplitude of K181-510049-A SSR-00508 H E-PLANE.nsi



# M.gear Wha Yu Group

Far-field amplitude of K181-510049-A SSR-00508  $\,\mathrm{V}\,$  H-PLANE.nsi



Nizing Electric Co., Ltd.

11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C.

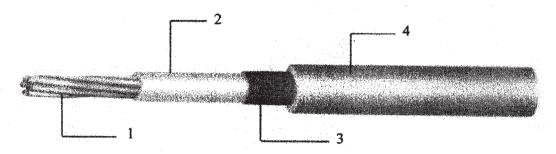
Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

-	RG 178 B/U	FEP INSULATED	PAGE	1/2
	PRODUCT	HIGH-FREQUENCY COAXIAL	ISSUED	21. Oct. 2003
1	STANDARD	CABLE	REVISED	-

### I - Scope

This specification presents a FEP insulated high-frequency coaxial cable AWG 30, 1.8 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

### II - Construction



Ite	m	Unit	Details	
1. Inner Conductor Material		4000colificar	CP-AG	
The state of the s	Composition	No./mm	AWG 30 or 7 × 0.1	
	Dia. (approx.)	mm	0.305	
2. Dielectric	Material		Extruded FEP	
	Nom. O.D.	mm	$0.84 \pm 0.05$	
	Color	- company of the control of the cont	Natural	
3. Outer Conductor	Material		Silver coated copper	
	Composition	:0000000004A	Braided (16 / 3 / 0.1)	
	Dia. (approx)	mm	1.29 ± 0.07	
4. Jacket	Material	onenciality (nep.	Extruded FEP	
	Dia.	mm	1.80 ± 0.08	
Color			Standard color is Light Orange	

11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C. Nizing Electric Co., Ltd. Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

RG 178 B/U	FEP INSULATED	PAGE	2/2
PRODUCT	HIGH-FREQUENCY COAXIAL	ISSUED	21. Oct. 2003
STANDARD	CABLE	REVISED	

### III - Characteristics

Item	Unit	Specified Value	Note			
Temperature Rating	°C	-55 ~ +200				
Voltage Lasting	V	1000				
		Dielectric core: No breakdown at AC 3 ky for 0.2 sec.	Spark test			
Dielectric strength	eproprie devo-	Jacket: No breakdown at AC 3 kv for 0.2 sec.  Spark tes				
Characteristic Impedance	Ω	50 ± 2	TDR method			
Capacitance	pF/ft	29.4				
		16.0	100.0 MHz			
		33.0	400.0 MHz			
Attenuation. (Max.)	dB/100ft	52.0	1.0 GHz			
	The control of the co	94.0	3.0 GHz			
Approx. Weight	g/m	7.68				

	MADE BY	Roche din
Note:	APPROVALS	Shon Bin Chad

### 譁裕實業股份有限公司

### WHA YU INDUSTRIAL CO., LTD

### Connector 材質證明書

譁袑 Wha	直接			Plug Reve	rse Straight For RG-178				
	結構圖面								
		4	<b>林原</b>	6	)			5	表面處理
1	673 6月 風曲	m.a	材質成	177		יייייי איניייי			
1	絕緣體 从 凱	Teflon Brass	Cu	Pb	Fe	TFE Fe+Sn	Zn	Ι	N/A 
3	外殼 本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn		
4	経 経 経 経 発 體	Teflon	Cu	10		TFE	2.11		N/A
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb		
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳
Remark	:								<b>富業滿</b>
								****	