



WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)  
 DONGGUAN AEON TECH CO.,LTD.(CHINA)  
 SUZHOU AEON TECH CO.,LTD.(CHINA)  
 AEON TECH (SHANGHAI) CO.,LTD(CHINA)  
 DONGGUAN PARNER TECH CO.,LTD.(CHINA)



## SPECIFICATION FOR APPROVAL

**CUSTOMER:** 永洋科技股份有限公司

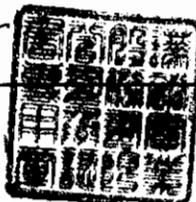
**PART NAME:** RF Antenna Assembly

**PART NO.:** 11320Y11028A1

**REVISION:**

**W. Y. P/NO.:** C381-510127-A(SSR-81108)

**REV.:** XI

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Romeo 	
DATE :	4/28/08 	

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# RF Antenna Assembly

## Specification

### 1. Electrical Properties :

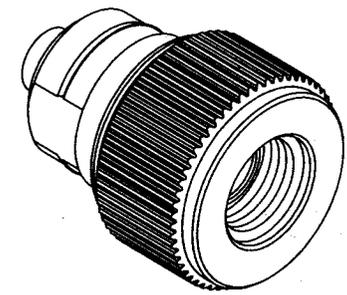
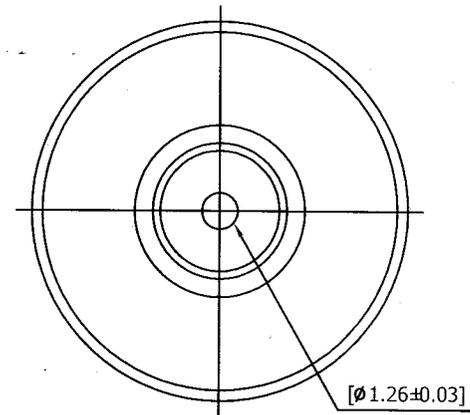
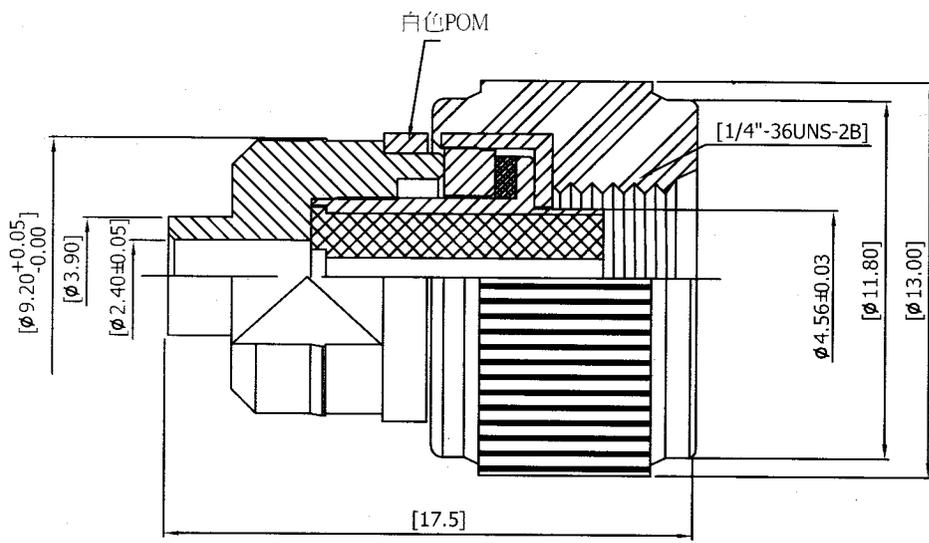
- 1.1 Frequency Range.....2.4GHz ~ 2.5GHz
- 1.2 Impedance .....50Ω Nominal
- 1.3 VSWR .....1.92 :1Max.
- 1.4 Return Loss.....-10 dB Max.
- 1.5 Radiation .....Omni-directional
- 1.6 Gain(peak).....1.8dBi
- 1.7 Polarization.....Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable.....RG-178 Coaxial Cable
- 1.10 Connector.....SMA Plug Reverse

### 2. Physical Properties :

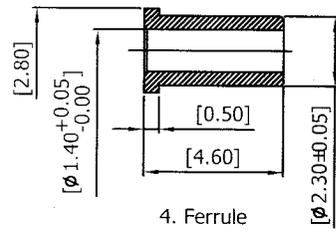
- 2.1 Antenna Body..... TPE
- 2.2 Antenna Base.....PC
- 2.3 Antenna Base.....PBT
- 2.4 Operating Temp .....-10°C ~ +60°C
- 2.5 Storage Temp .....-10°C ~ +70°C
- 2.6 Color ..... White



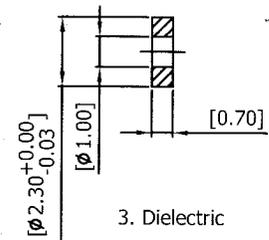
REV	DATE	DESCRIPTION
X1	04/21-2008	New Issue



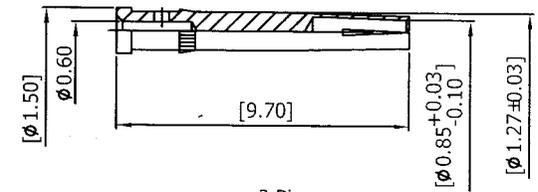
1. Assembly Body



4. Ferrule



3. Dielectric



2. Pin

NO	DESCRIPTION	MATERIAL	Q'TY	REMARK
4	Ferrule	Brass	1	Nickel Plated >80 μ"
3	Dielectric	Teflon	1	N/A
2	Pin	Phosphor Bronze	1	5μ" Gold Plated
1	Assembly Body	Brass	1	白色PBT+FB外殼+本體壓鑄鍍白鍍

CUSTOMER'S SIGNATURE

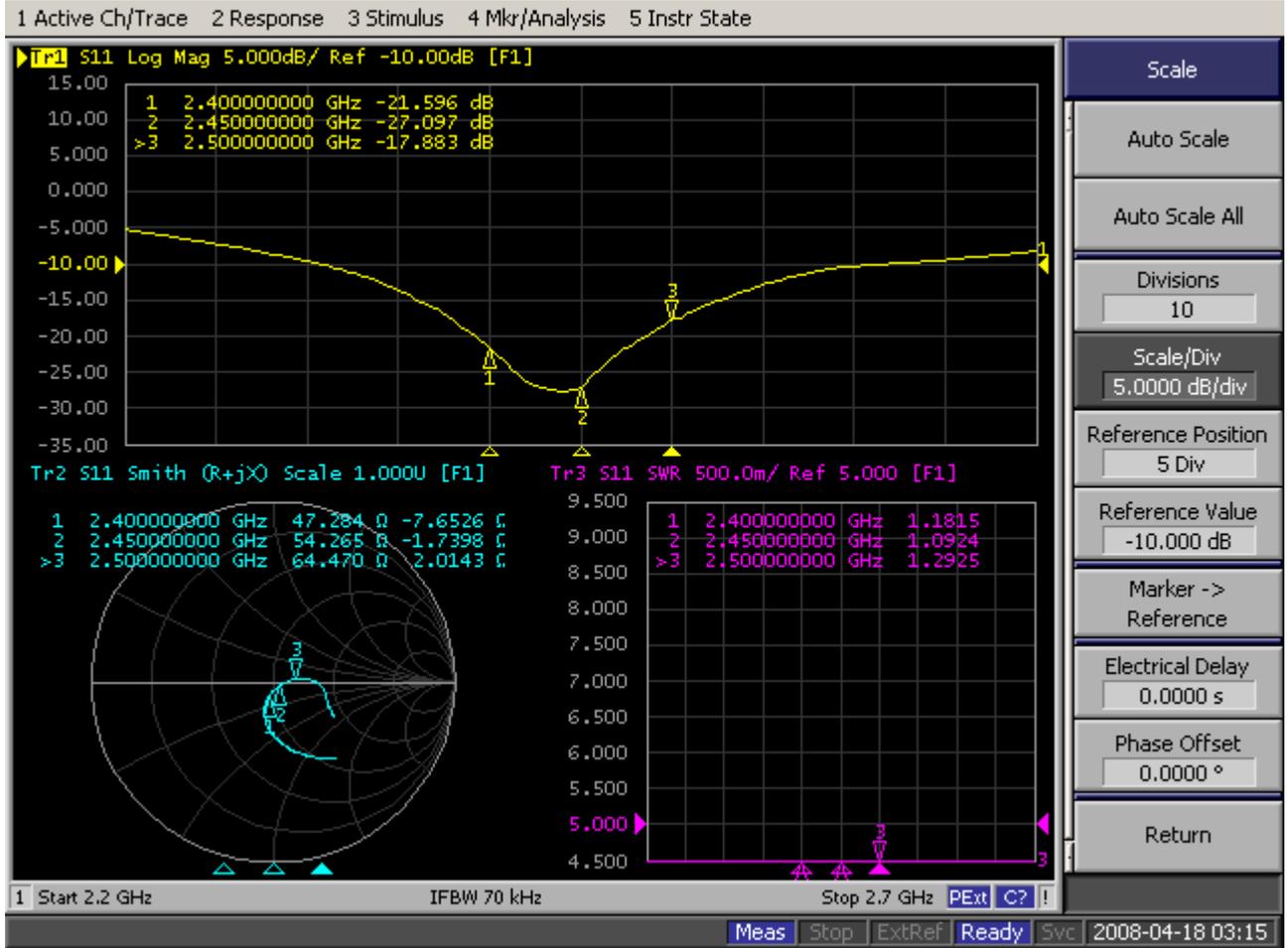
APPROVED  
 1. 李 志 松 4/21  
 CHECKED  
 DRAWING  
 李 松 4/21

CUSTOMER:  
 PART NO :  
 PARTNAME: SMA Plug Reverse For RG-178  
 W.Y P/NO : 100-2001276-AZ  
 REV UNIT FILE :  
 X1 m/m SHEET : 1/1

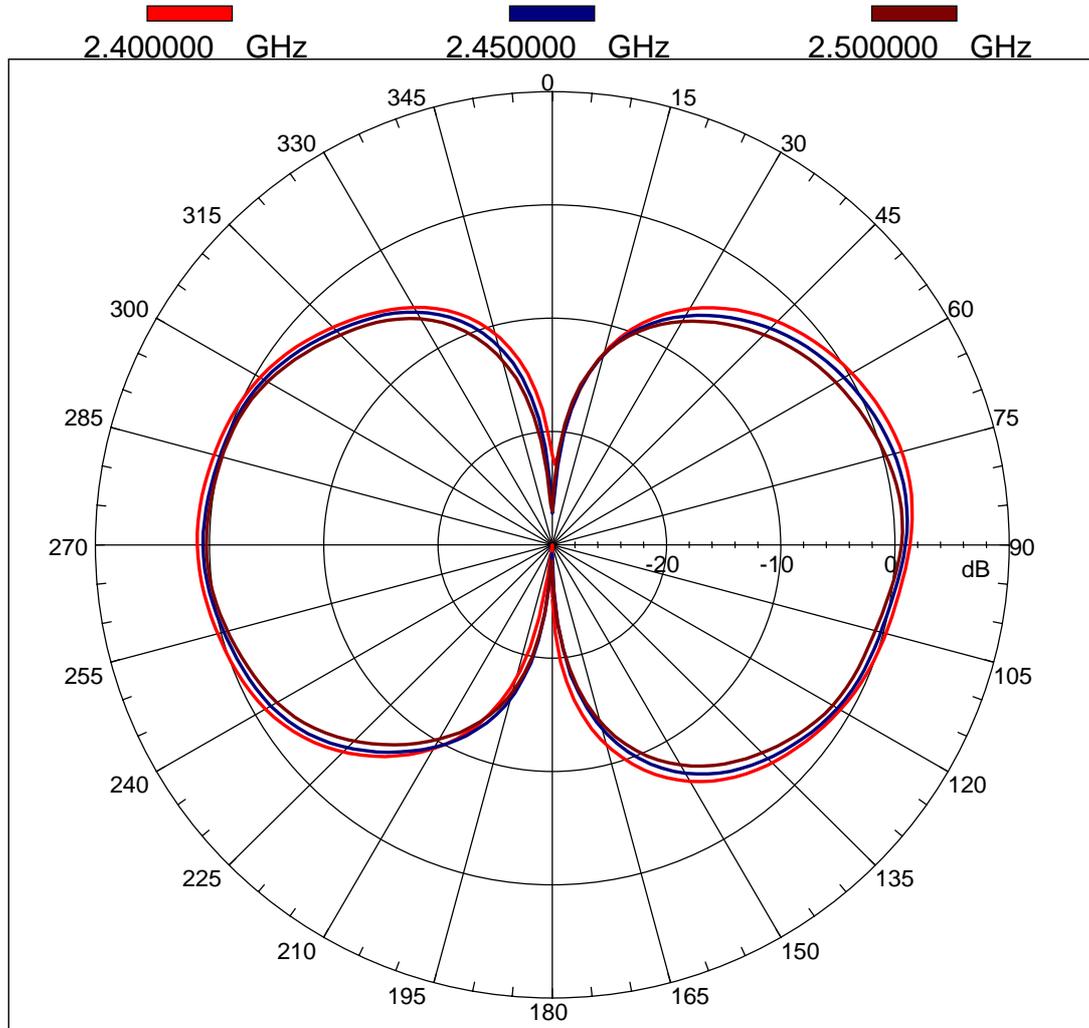
**M.gear** Wha Yu Group  
 THIS DRAWING, AND IT'S INHERANT DESIGN CONCEPTS, ARE THE PROPERTY OF WHA YU AND AS SUCH MAY NOT BE COPIED, REPRODUCED, OR GIVEN TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF WHA YU.

## RF Antenna Assembly

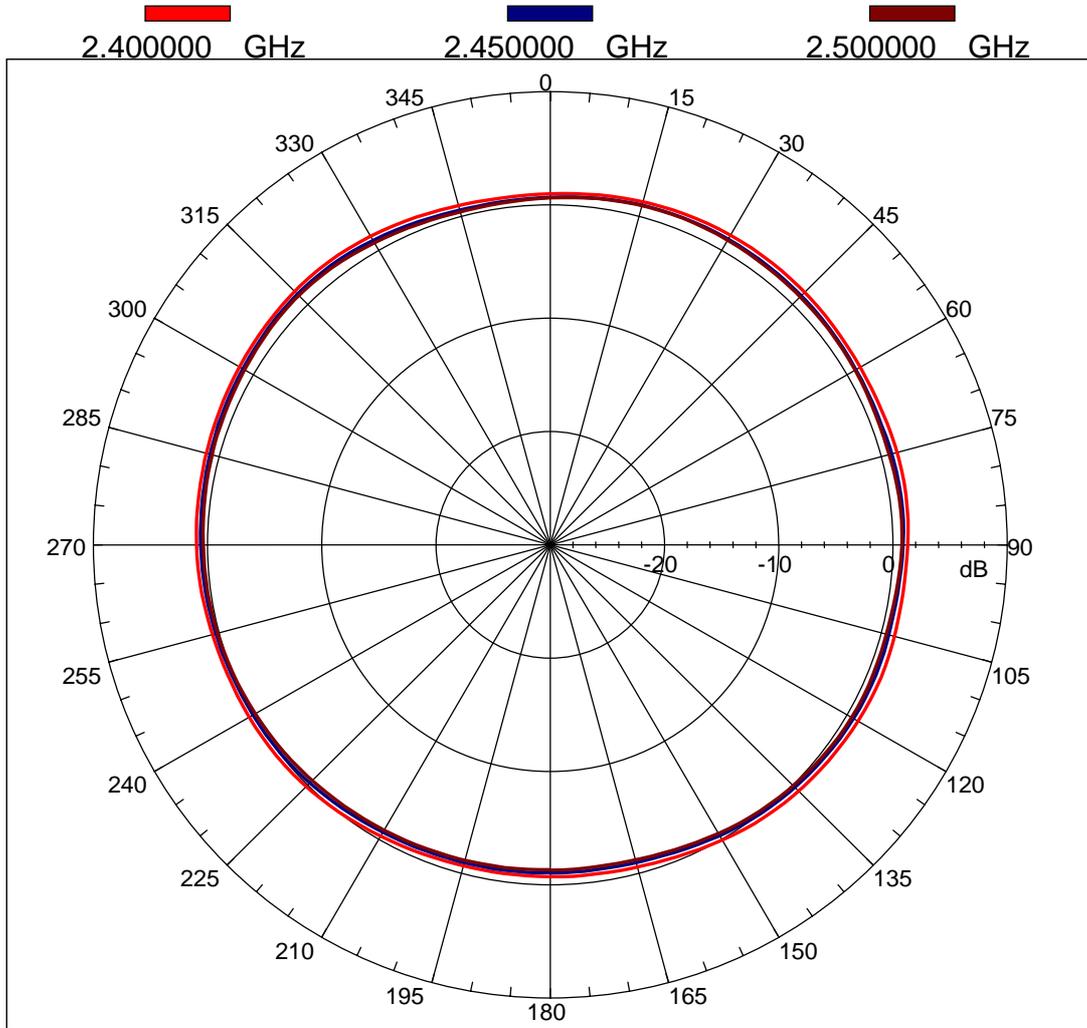
P/No.C381-510127-A SSR-81108 Spec:2.4~2.5GHz



Far-field amplitude of C381-510127-A SSR-81108 H E-PLANE.nsi



Far-field amplitude of C381-510127-A SSR-8108 V H-PLANE.nsi

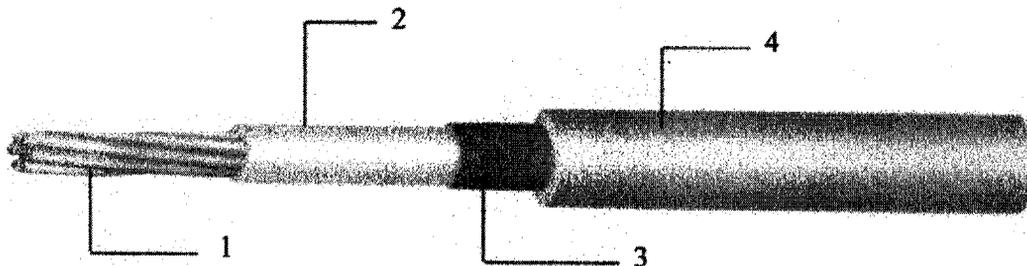


RG 178 B/U	<b>FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE</b>	PAGE	1 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

**I - Scope**

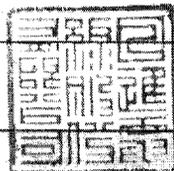
This specification presents a FEP insulated high-frequency coaxial cable AWG 30, 1.8 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

**II - Construction**



Item		Unit	Details
1. Inner Conductor	Material	—	CP-AG
	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 ± 0.05
	Color	—	Natural
3. Outer Conductor	Material	—	Silver coated copper
	Composition	—	Braided (16 / 3 / 0.1)
	Dia. (approx.)	mm	1.29 ± 0.07
4. Jacket	Material	—	Extruded FEP
	Dia.	mm	1.80 ± 0.08
	Color	—	Standard color is Light Orange

Note :



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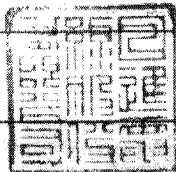
*Shen Bin Chao*  
*Shen Bin Chao*

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

**III – Characteristics**

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

Note :



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*Shen Bin Chao*