



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.:

REVISION:

W. Y. P/NO.: C381-510150-A(SSR-91019)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Romeo 	
DATE :	4/6/09	

WHA YU GROUP

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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)..... 2dBi
- 1.7 Polarization..... Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable..... RG-178 Cable
- 1.10 Connector..... SMA Straight 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

A		B		C		D		E		F		G	
										REV		DATE	
										X1		04/11-2009	
										DESCRIPTION		New Issue	

Technical drawing of the antenna assembly showing dimensions: 7.8, 82.5±2, 9.35±0.1, and 25.6. Callouts 1 through 6 identify components.

Isometric view of the antenna assembly with a label "GP" and a note "GP標鐵貼於外箱兩邊側麥左上角".

Packing diagram showing 20 individual antenna units arranged in a tray.

Packing:每Tray盤裝20PCS成品

6	Connector	SMA Straight Plug Reverse	1	
5	Cable	RG-178Cable, Transparency Brown,50 Ω	1	
4	Rivet	POM,Color:White	2	
3	Antenna Base	PBT;Color:White,Du Pont LS033(W.Y-024)	1	
2	Antenna Base	PC;Color:White,Du Pont LS033(W.Y-024)	1	
1	Antenna Body	TPE;Color:White,Du Pont LS033(W.Y-024)	1	

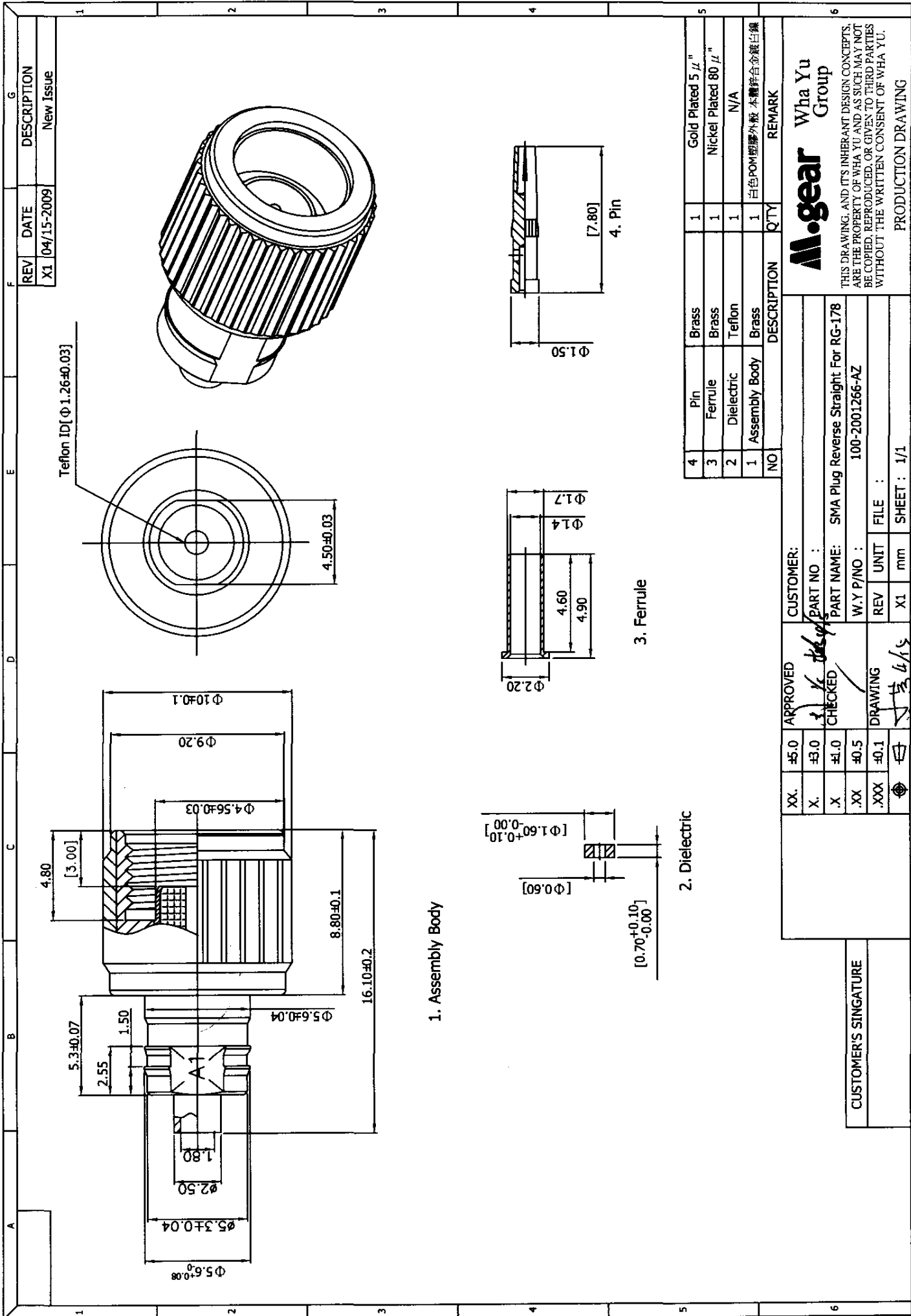
NO	DESCRIPTION	QTY	REMARK
6	Connector	永 洋	
5	Cable		
4	Rivet		
3	Antenna Base		
2	Antenna Base		
1	Antenna Body		

CUSTOMER: 永 洋	
PART NO :	
PART NAME: RF Antenna Assembly	
W.Y P/NO : C381-510150-A	
REV	UNIT
X1	mm
FILE : SSR-91019	
SHEET : 1/1	

CUSTOMER'S SIGNATURE

Wha Yu Group

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PRODUCTION DRAWING

CUSTOMER: SMA Plug Reverse Straight For RG-178

PART NO: 100-2001266-AZ

W.Y P/NO: 100-2001266-AZ

REV: X1

UNIT: mm

FILE: 1/1

SHEET: 1/1

APPROVED: [Signature]

CHECKED: [Signature]

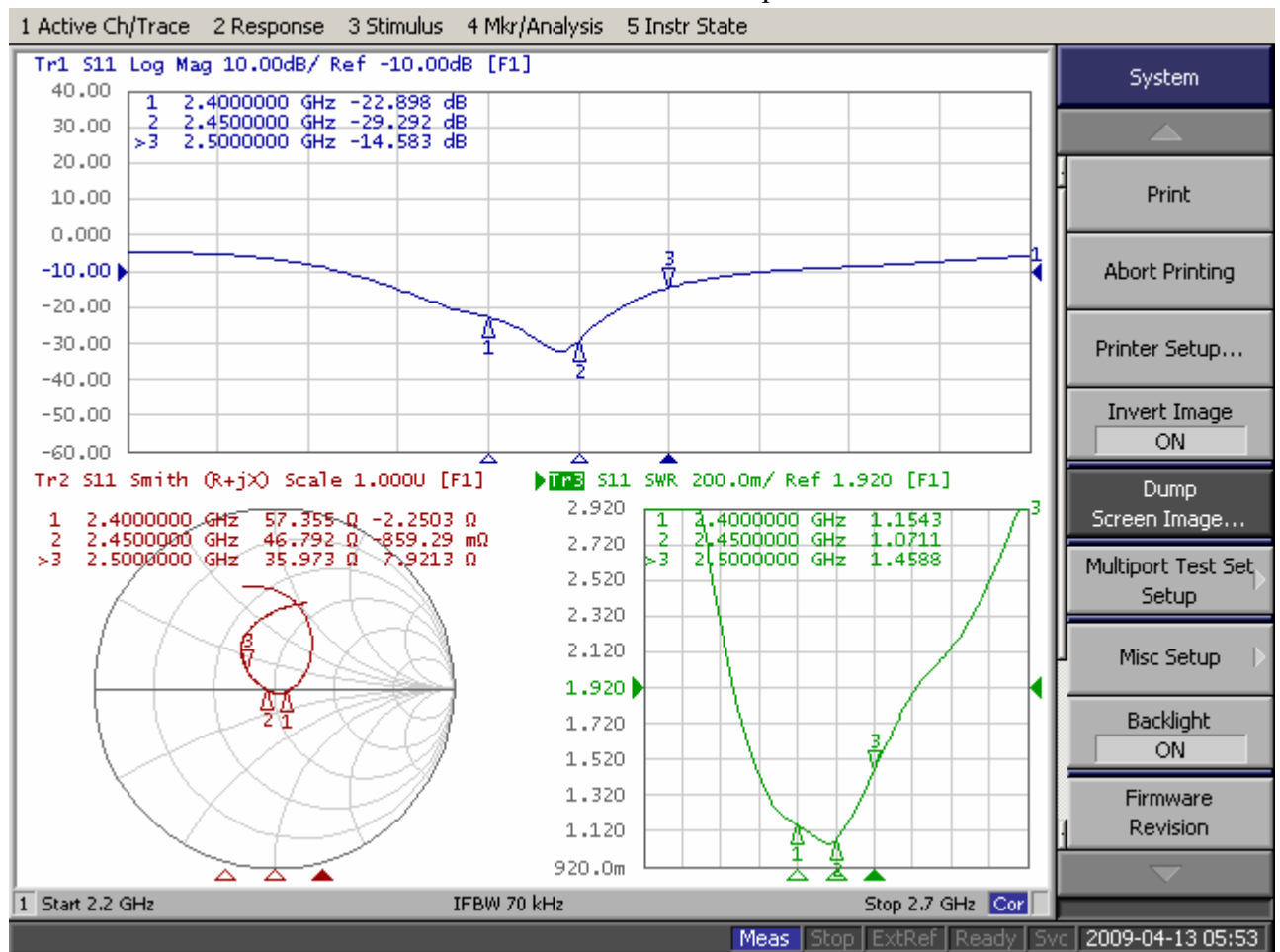
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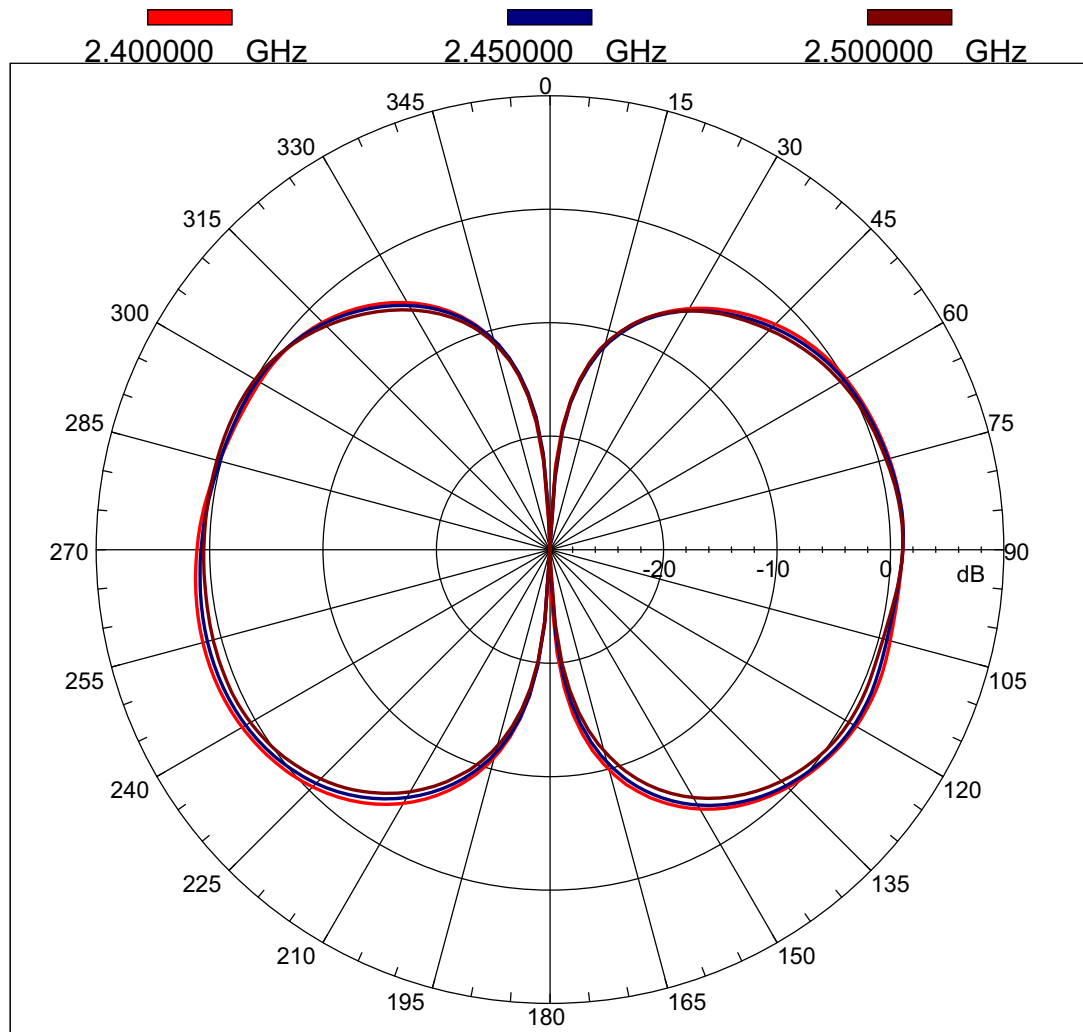
CUSTOMER'S SIGNATURE

RF Antenna Assembly

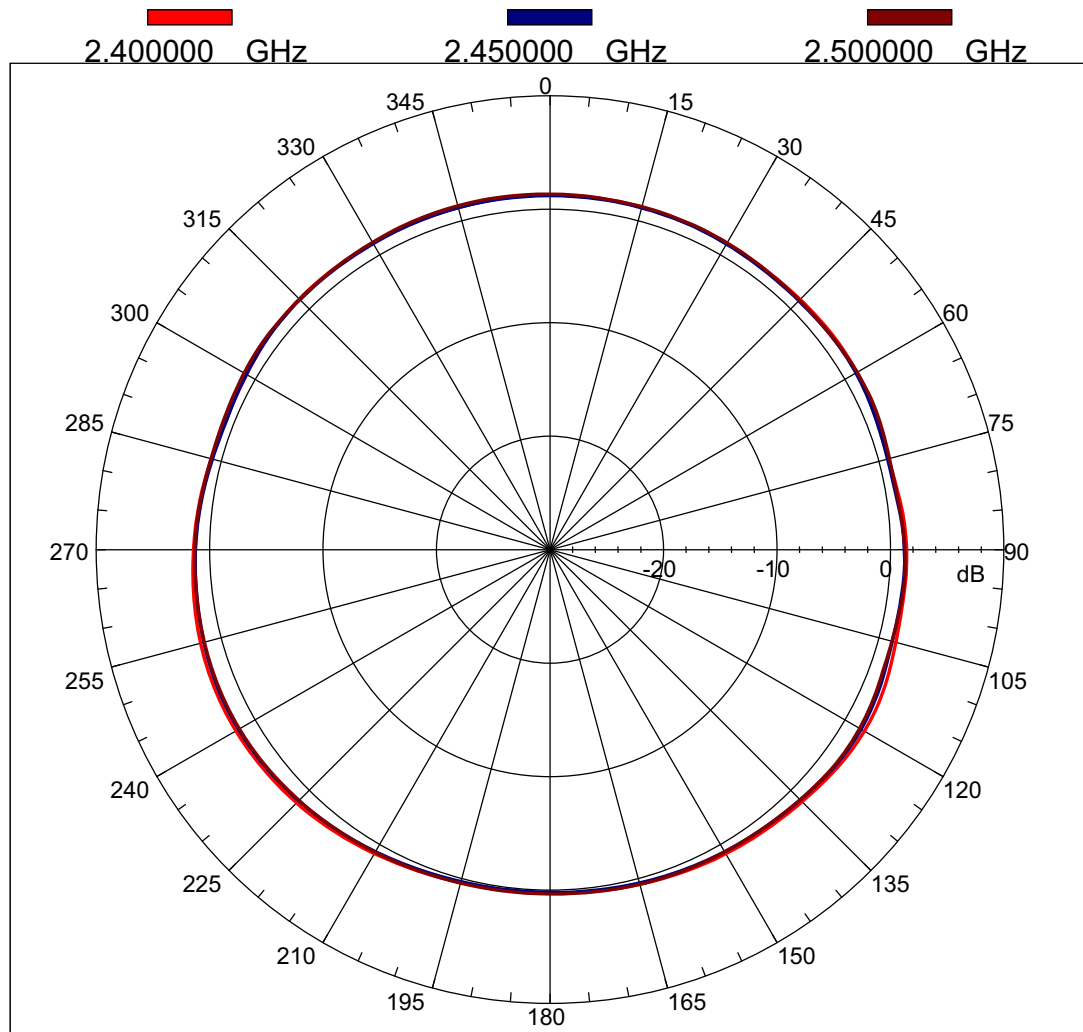
P/No.C381-510150-A SSR-91019 Spec:2.4~2.5GHz



Far-field amplitude of C381-510150-A SSR-91019 E H-PLANE.nsi



Far-field amplitude of C381-510150-A SSR-91019 V H-PLANE.nsi

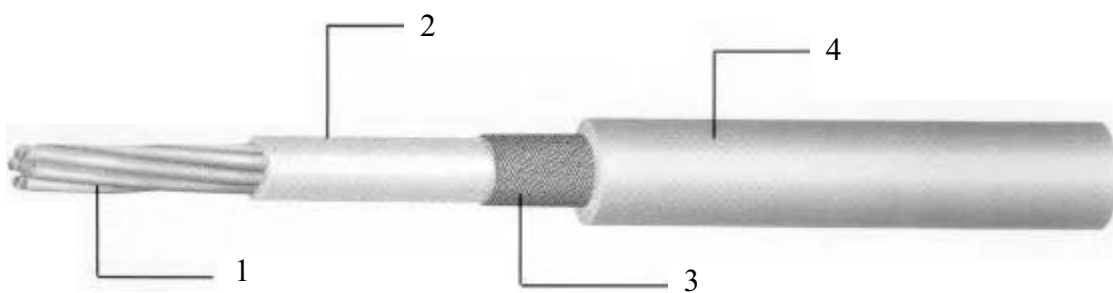


RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	1 / 2
PRODUCT STANDARD		ISSUED	16. Oct. 2003
		REVISED	

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 ±0.01
4. Jacket	Material	—	Extruded FEP
	Dia.	mm	1.80 ±0.1
	Color	—	Standard color is Light Orange

Note :	MADE BY	
	APPROVALS	

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	2 / 2
PRODUCT STANDARD		ISSUED	16. 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 / m	29.4	at 1 kHz
Attenuation. (Max.)	dB / 30m	52.0	1.0 GHz
		94.0	3.0 GHz
		-	5.0 GHz
		16.0	100.0 GHz
		33.0	400.0 GHz
Approx. Weight	g / m	7.68	

Note :	MADE BY	
	APPROVALS	



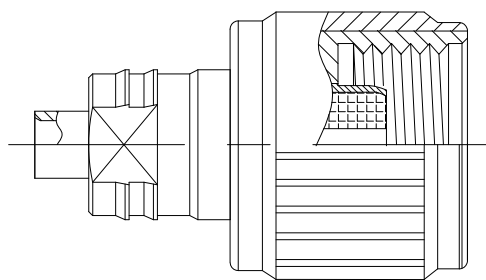
譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

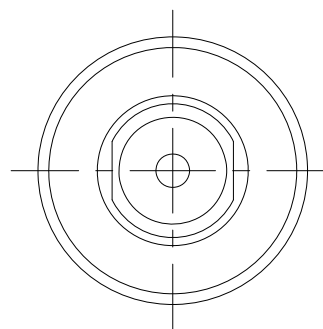
Connector 材質證明書

譚裕料號 Whayu P/N	100-2001266-AZ	產品名稱 Product Name	Big SMA Straight Plug Reverse For RG-178
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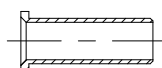
結構圖面



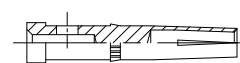
1. Assembly Body



2. Dielectric



3. Ferrule



4 Pin

材質成份									表面處理
1	Body	Brass	Cu	Pb	Fe	Fe+Sn	Zn		POM White
2	Dielectric	Teflon	PTFE						N/A
3	Ferrule	Brass	Cu	Pb	Fe	Fe+Sn	Zn		Plated Nickel >80 μ "
4	Pin	Brass	Cu	Pb	Fe	Fe+Sn	Zn		Plated Gold 5 μ "

Remark :

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