

RF Antenna Cable Assembly

Specification

1. Electrical Properties :

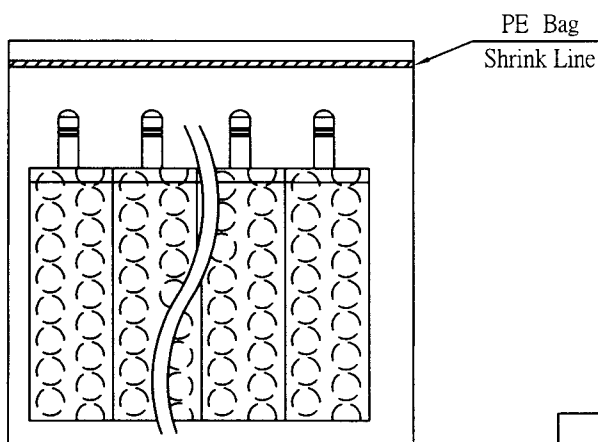
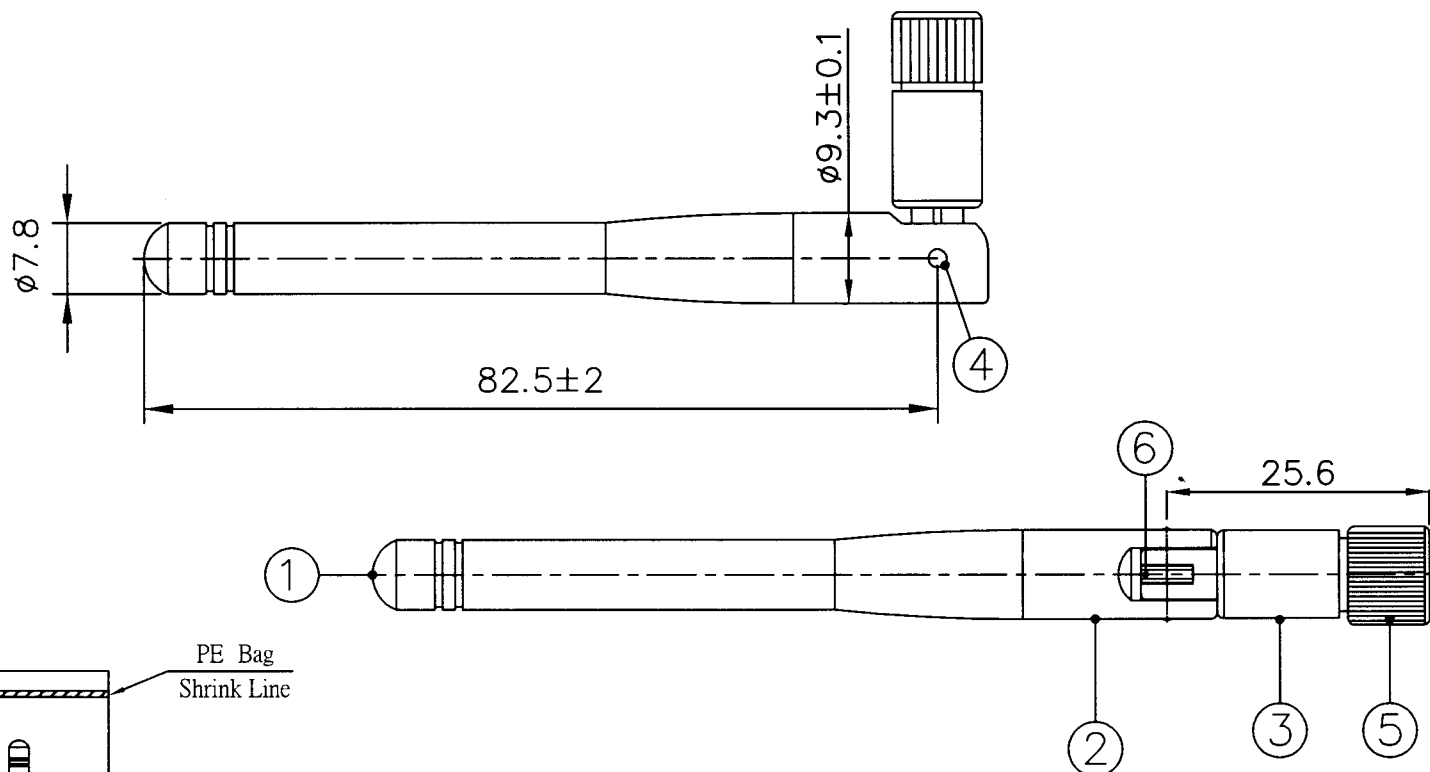
- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 Max.
- 1.4 Return Loss..... -10 dB Maximum
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 1.8dBi
- 1.7 Polarization..... Linear Vertical
- 1.8 Admitted Power..... 1W

2. Physical Properties :

- 2.1 Cable..... RG-178 Coaxial Cable
- 2.2 Antenna Cover..... TPE
- 2.3 Antenna Base..... PC
- 2.4 Antenna Base..... PBT
- 2.5 Operating Temp. -20 ~ +65
- 2.6 Storage Temp. -30 ~ +75
- 2.7 Color Black
- 2.8 Connector..... SMA Plug Reverse

CG-

REV	DATE	DESCRIPTION
X1	1/11-2006	NEW ISSUE



Packing : 20 pcs/bag

CUSTOMER'S SIGNATURE

XX.	±5	APPROVED
X.	±1.0	CHECKED
.X	±0.1	DRAWING
.XX	±0.01	
.XXX	±0.005	
⊕	⊖	

CUSTOMER: 永洋科技股份有限公司

PART NO : 11310Y10126A1

PARTNAME: RF Antenna Assembly

W.Y P/NO : C381-510085-A

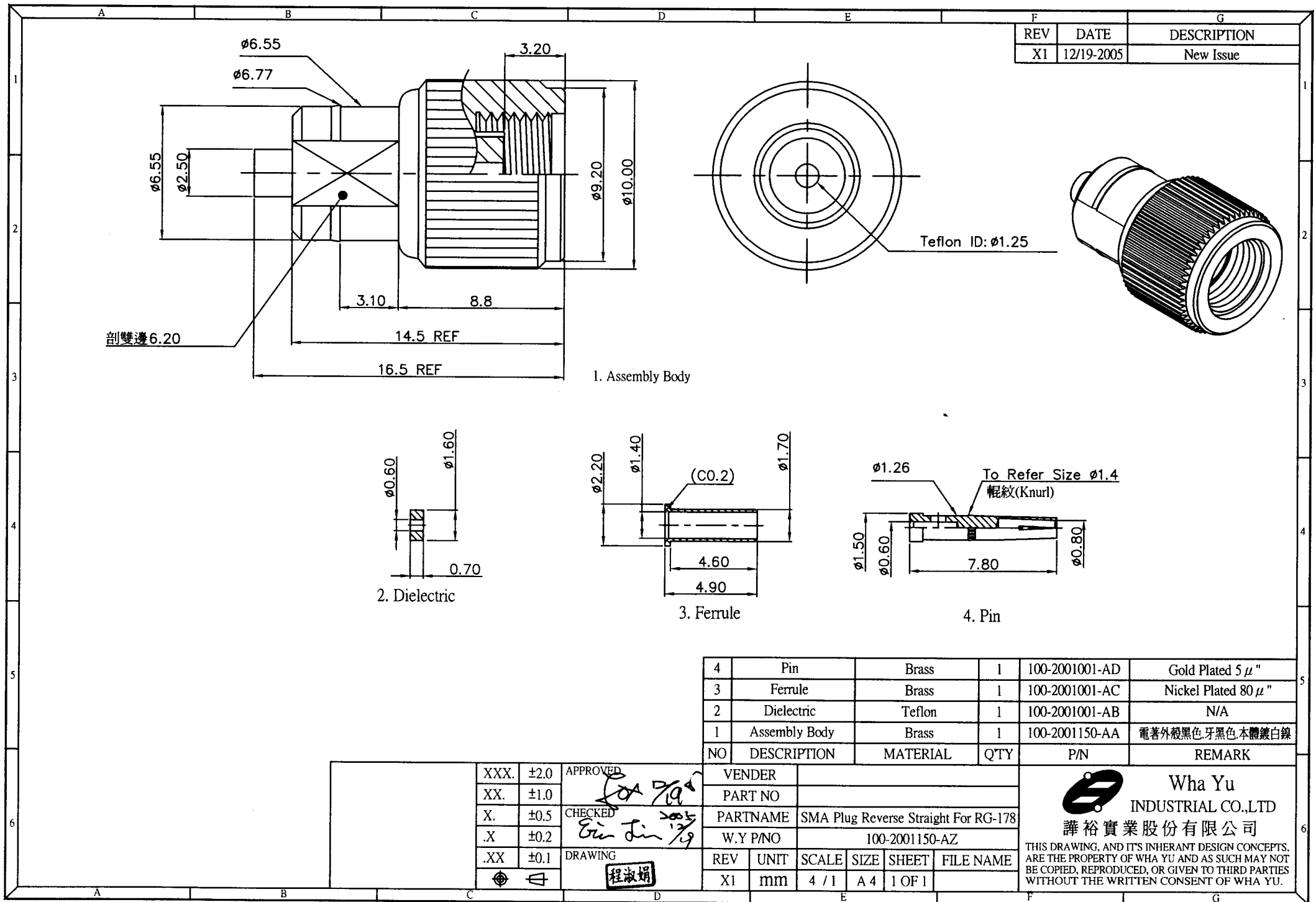
REV	UNIT	FILE
X1	m/m	SHEET : 1/1

6	Cable	RG-178 , Translucent Brown ; 50 Ω	1	
5	Connector	SMA Straight Plug/Reverse (電著黑)	1	
4	Rivet	Brass , Zn Plated (Black)	2	
3	Antenna Base	PBT ; Color:Black	1	
2	Antenna Base	PC ; Color:Black	1	
1	Antenna Cover	TPE ; Color:Black	1	
NO	DESCRIPTION		QTY	REMARK

Wha Yu
INDUSTRIAL CO.,LTD.

華裕實業股份有限公司

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RF Antenna Assembly
P/NO :C381-510085-A SPEC : 2.4GHz

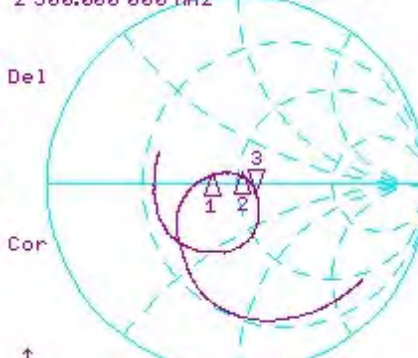
5 Feb 2005 09:16:17

CH1 SWR 1 / REF 1
S22 3: 1.2239 2 500.000 000 MHz



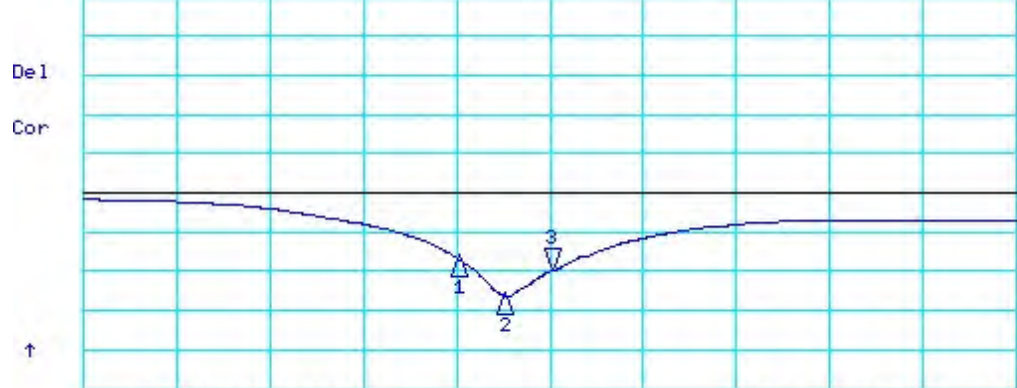
CH1 Markers
1: 1.3532
2.40000 GHz
2: 1.1097
2.45000 GHz
3: 1.2239
2.50000 GHz

CH3 S22 1 U FS
3: 60.313 Ω -4.1387 Ω 15.382 pF
2 500.000 000 MHz



CH3 Markers
1: 37.309 Ω
3.3184 Ω
2.40000 GHz
2: 51.135 Ω
5.1445 Ω
2.45000 GHz
3: 60.313 Ω
-4.1387 Ω
2.50000 GHz

CH2 S22 LOG 10 dB/REF 0 dB



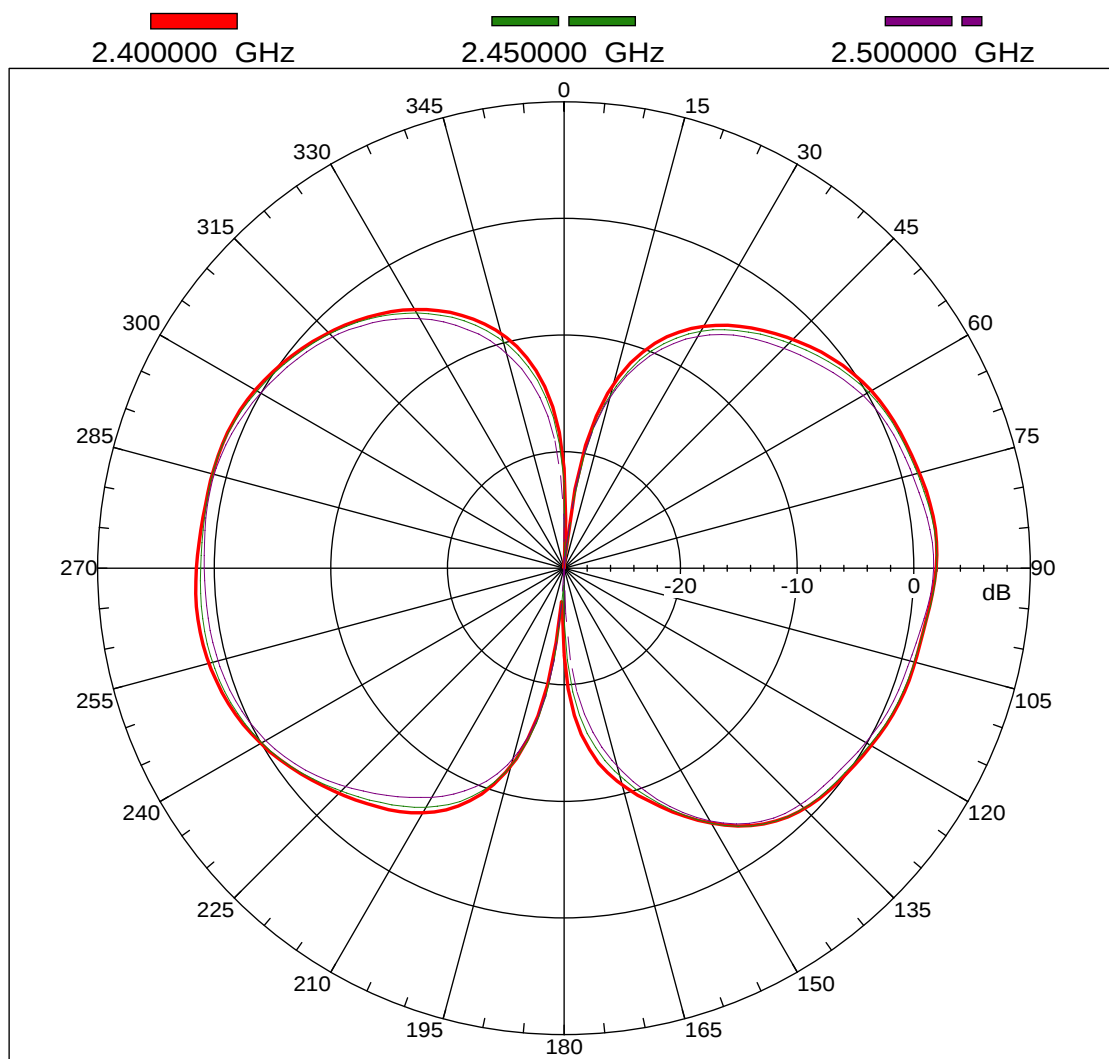
CH2 Markers
1: -16.472 dB
2.40000 GHz
2: -25.673 dB
2.45000 GHz
3: -19.941 dB
2.50000 GHz

START 2 000.000 000 MHz

STOP 3 000.000 000 MHz

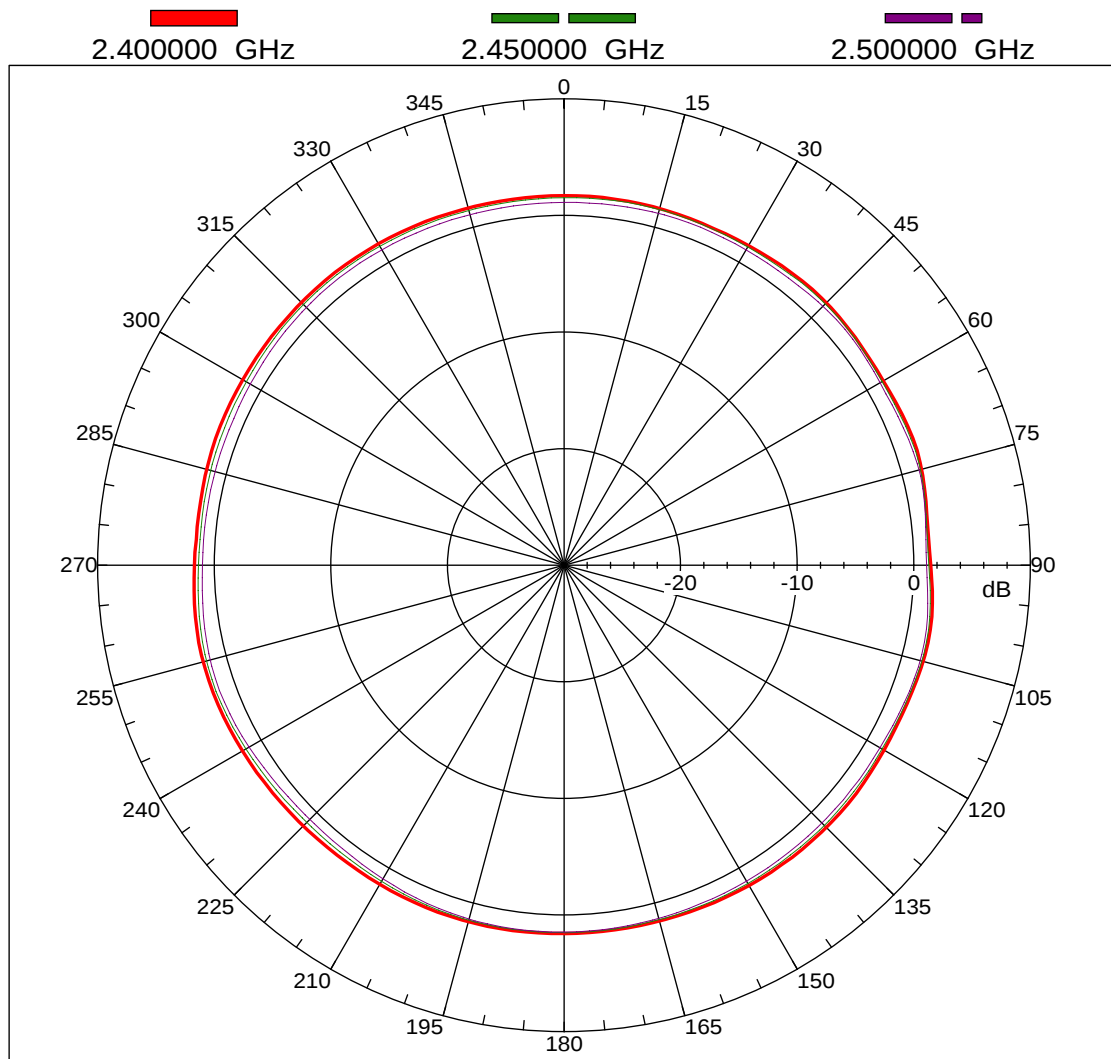
10/7/2005

Far-field amplitude of C381-510085-A-H.nsi



10/7/2005

Far-field amplitude of C381-510085-A-V.nsi



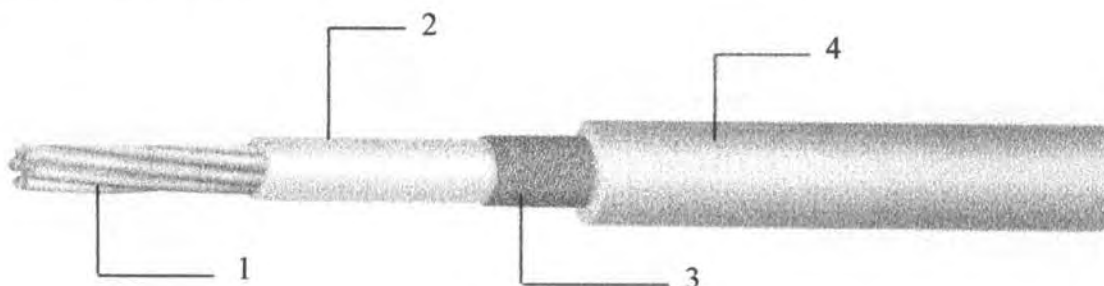
10/7/2005

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	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 :



MADE BY

APPROVALS

Shen Bin Chao
Shen Bin Chao

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	2 / 2
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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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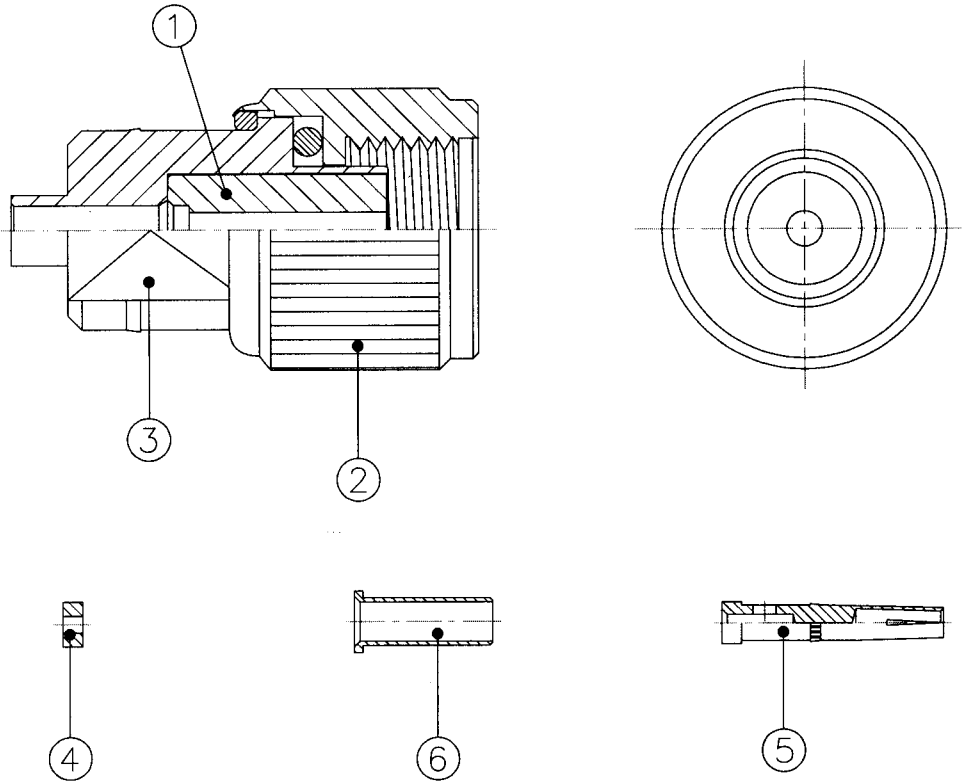
譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

譚裕料號 Whayu P/N	100-2001150-AZ	產品名稱 Product Name	SMA Plug Reverse Straight For RG-178
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結構圖面



材質成份

表面處理

1	絕緣體	Teflon	PTFE					N/A
2	外殼	Brass	Cu	Pb	Fe	Fe+Sn	Zn	電著
3	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn	鍍鎳
4	絕緣體	Teflon	PTFE					N/A
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb	鍍金
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn	鍍鎳

Remark :



ET-QA-0017-A2