



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: 友勁科技股份有限公司

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C056-510356-A(SSR-73751)

REV.: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :	11/10/07	

WHA YU GROUP

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SU ZHOU AEON TECH CO., LTD. (CHINA)

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Cameo Communications, Inc.

RF Antenna Assembly

Specification

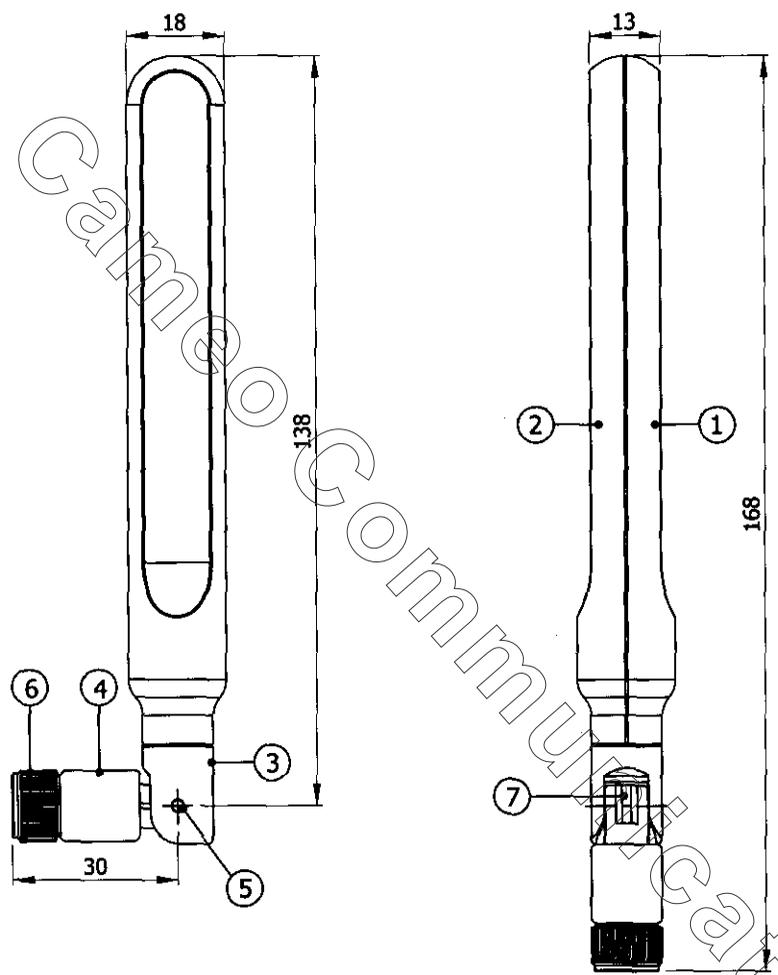
1. Electrical Properties :

- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz / 4.9GHz ~ 5.825GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 : 1 Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 3dBi typ. (2.4GHz ~ 2.5GHz)
5dBi typ. (4.9GHz ~ 5.825GHz)
- 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 Cover..... ABS+PC
- 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 Black

REV	DATE	DESCRIPTION
X1	11/6-2007	New Issue



NO	DESCRIPTION	QTY	REMARK
7	Cable	1	RG-178 Cable
6	Connector	1	SMA Straight Plug Reverse
5	Rivet	2	POM, Black
4	Bottom fixed Base	1	PBT; Color: Black
3	Upper fixed Base	1	PC; Color: Black
2	Antenna Housing (R)	1	PC+ABS; Color: Black
1	Antenna Housing (L)	1	PC+ABS; Color: Black

CUSTOMER'S SIGNATURE	XX	±5	APPROVED	CUSTOMER: 友勁	
	X	±3.0	CHECKED		PART NO : C056-510356-A
	.X	±1.0	DRAWING	PARTNAME: RF Antenna Assembly	
	.XX	±0.5		W.Y P/NO : SSR-73751	
	.XXX	±0.1	REV	UNIT	FILE :
			X1	mm	SHEET : 1/1

M.gear Wha Yu Group

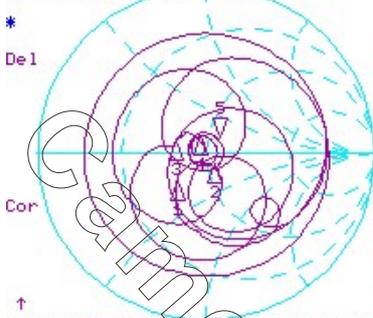
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RF Antenna Assembly
P/N0 :C056-510356-A(SSR-73751) SPEC :Dual Band

16 Nov 2007 10:35:42

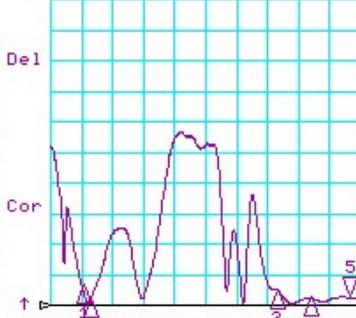
CH1 S11 1 U FS
5: 56.574 Ω 11.395 Ω 310.00 pH
5 850.000 000 MHz

CH3 SWR 1 / REF 1
S11 5: 1.2799 5 850.000 000 MHz



CH1 Markers

1:	33.199 Ω	-12.289 Ω	2.40000 GHz
2:	53.602 Ω	-7.0645 Ω	2.50000 GHz
3:	34.115 Ω	4.8242 Ω	4.90000 GHz
4:	45.203 Ω	8.7031 Ω	5.35000 GHz



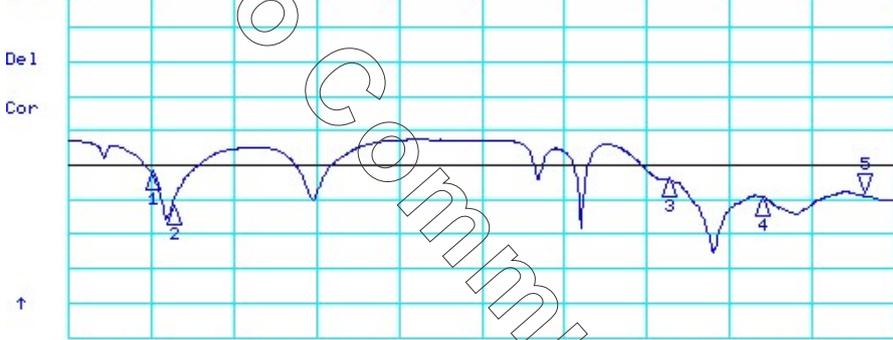
CH3 Markers

1:	1.6577	2.40000 GHz
2:	1.1653	2.50000 GHz
3:	1.4907	4.90000 GHz
4:	1.2319	5.35000 GHz

START 2000.000 MHz STOP 6000.000 MHz

START 2000.000 MHz STOP 6000.000 MHz

CH2 S11 LOG $\times 10$ dB/REF -10.01 dB 5:-18.217 dB 5 850.000 000 MHz



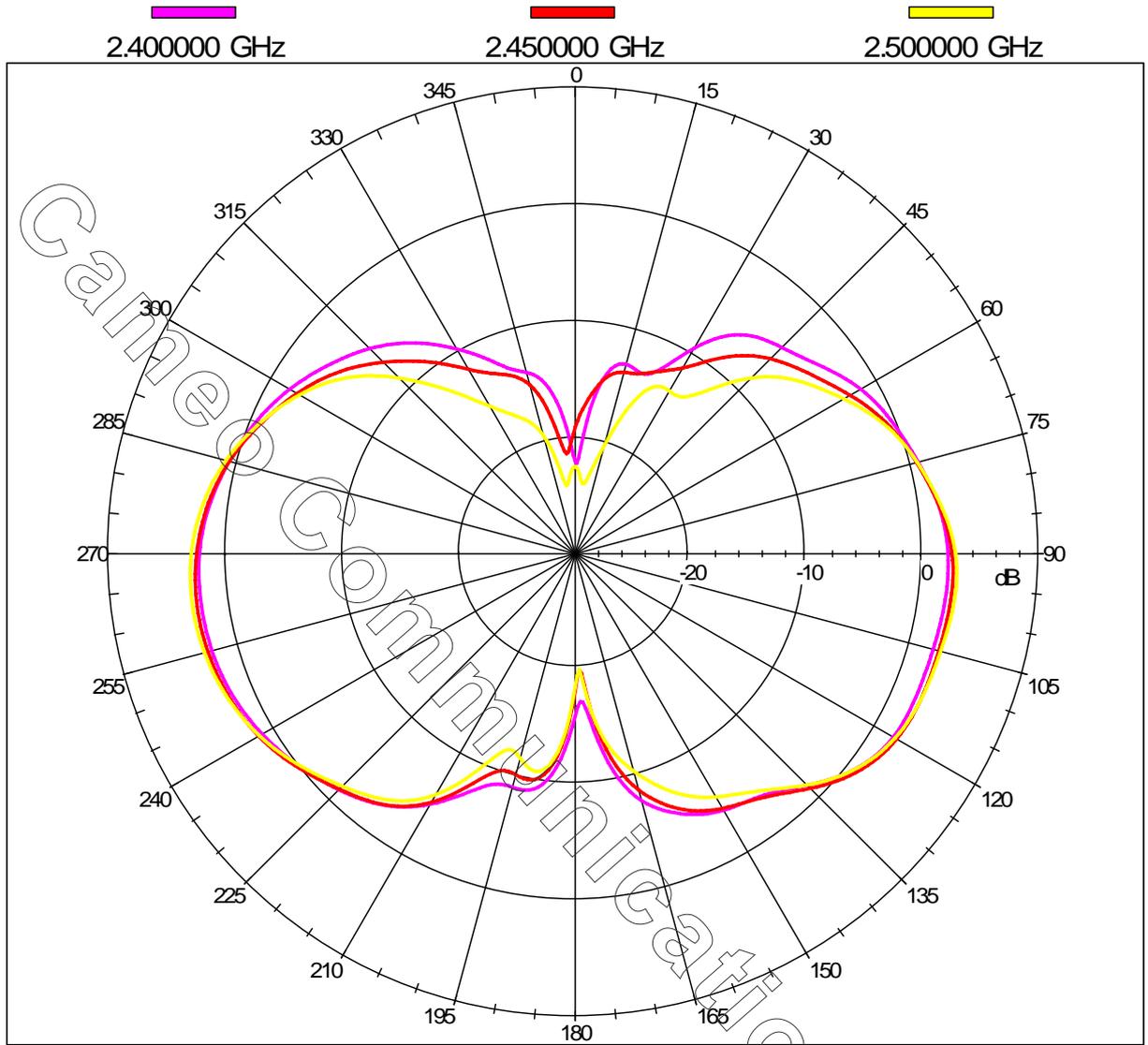
CH2 Markers

1:	-12.129 dB	2.40000 GHz
2:	-22.344 dB	2.50000 GHz
3:	-14.109 dB	4.90000 GHz
4:	-19.665 dB	5.35000 GHz

START 2 000.000 000 MHz

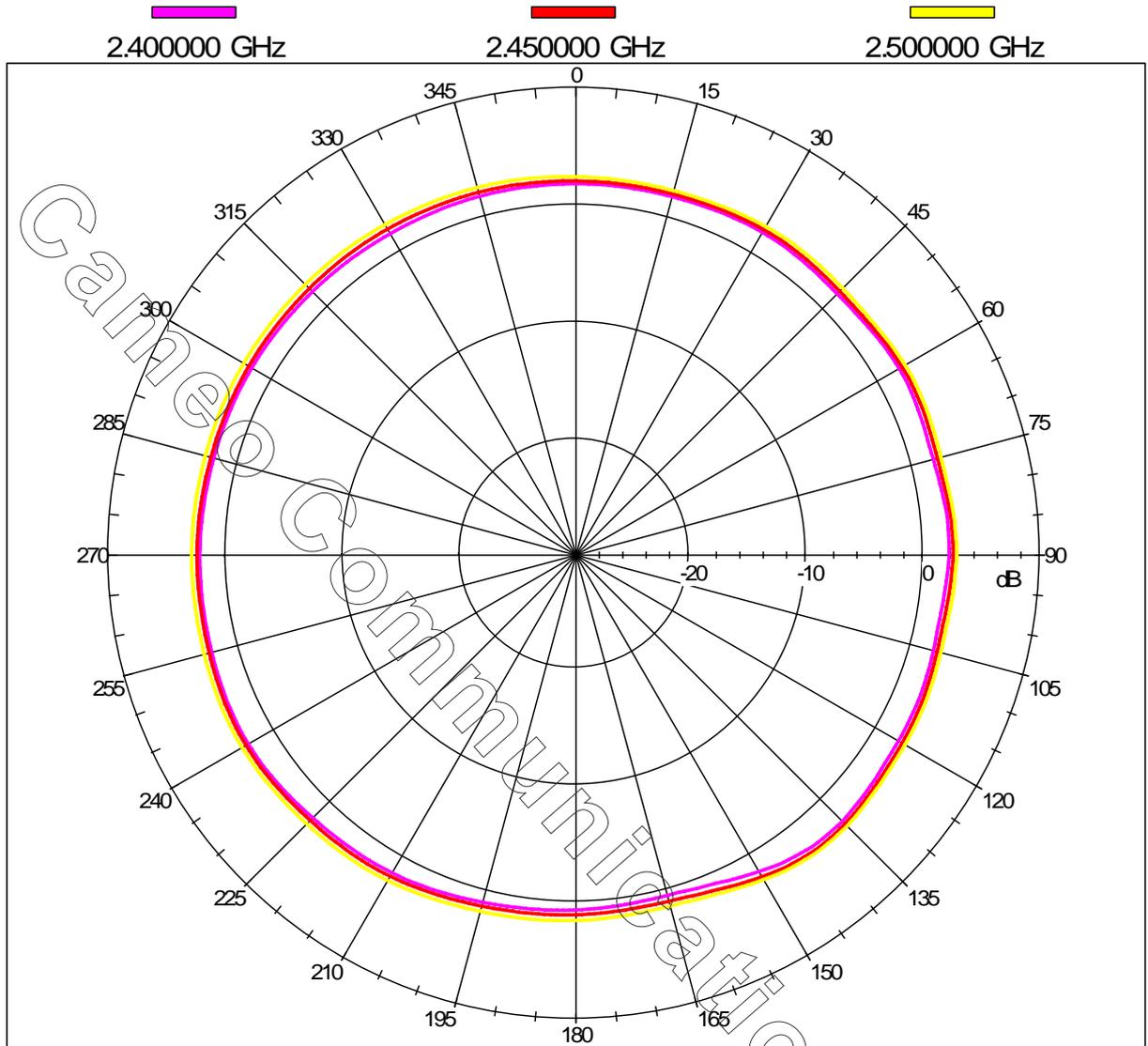
STOP 6 000.000 000 MHz

Far-field amplitude of C056-510356-A(SSR-73751)-H.nsi



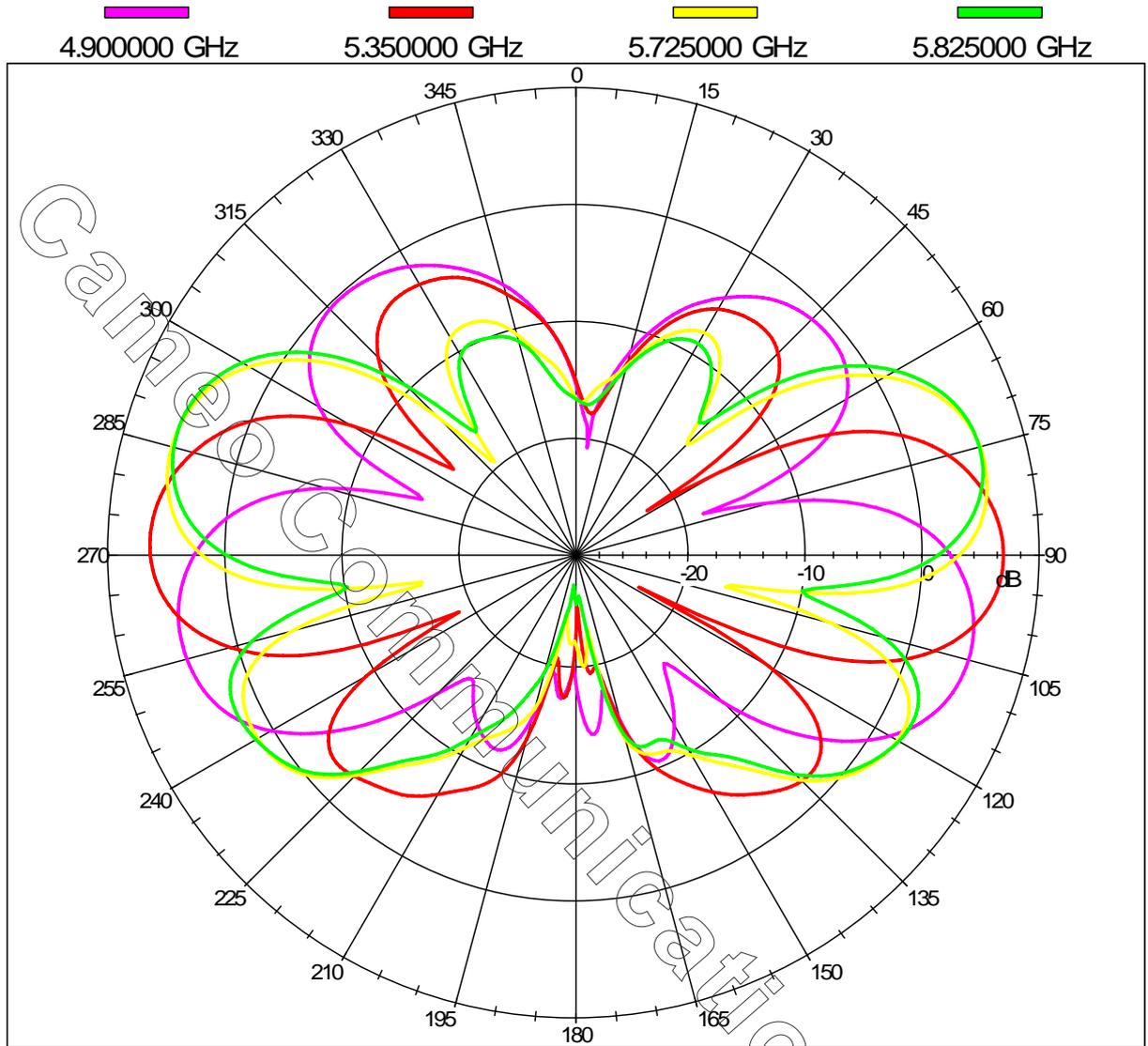
11/16/2007

Far-field amplitude of C056-510356-A(SSR-73751)-V.nsi



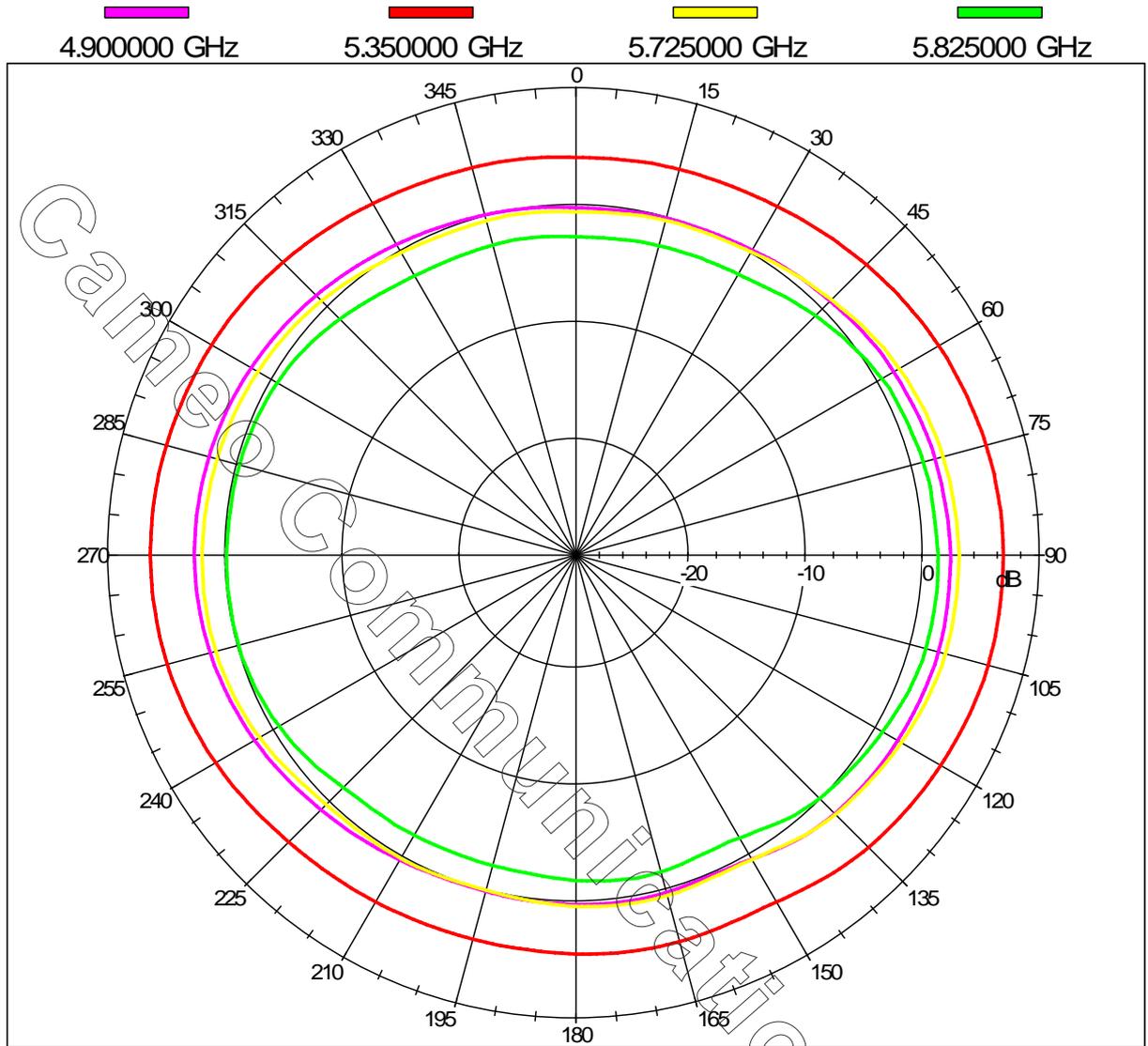
11/16/2007

Far-field amplitude of C056-510356-A(SSR-73751)-H.nsi



11/16/2007

Far-field amplitude of C056-510356-A(SSR-73751)-V.nsi



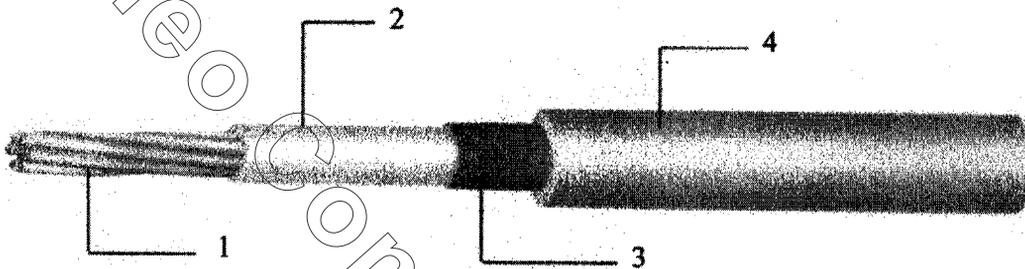
11/16/2007

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

I - Scope

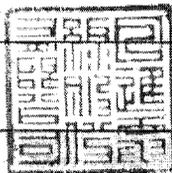
This specification presents a FEP insulated high-frequency coaxial cable AWG 30, 1.8 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

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 :



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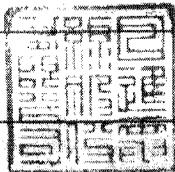
Shen Bin Chao
Shen Bin Chao

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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Robert Lin

Shen Bin Chao



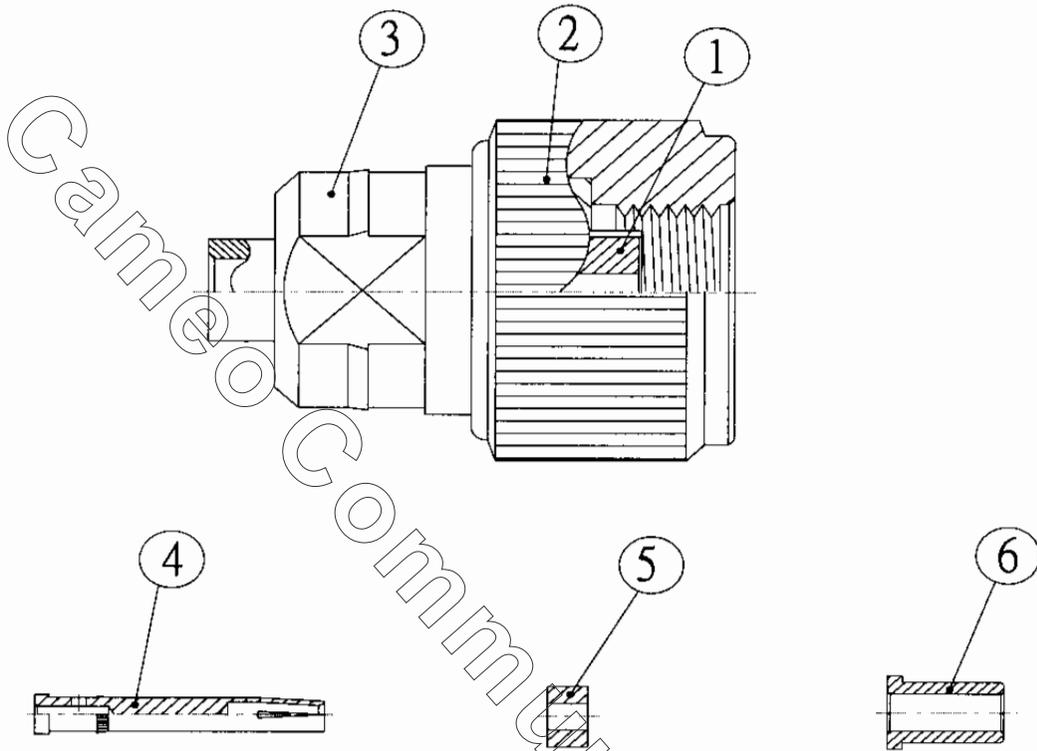
譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector Material Data Sheet

譚裕料號 Whayu P/N	100-2001192-AZ	產品名稱 Product Name	SMA Plug Reverse Straight For RG-178
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Structural Drawing



		Material							Surface	
1	Dielectric	Teflon	PTFE							N/A
2	Shell	Plastic	PBT+FB							Black
3	Bady	Brass	Cu	Pb	Fe	Fe+Sn	Zn	Nickel Plated		
4	Pin	Phpsphor Bronze	Cu	Sn	P	Zn	Pb	Gold Plated		
5	Dielectric	Teflon	PTFE							N/A
6	Ferrule	Brass	Cu	Pb	Fe	Fe+Sn	Zn	Nickel Plated		

Remark :

