(台灣) 華裕實業股份有限公司

(大陸) 東莞台霖電子通訊有限公司 蘇州華廣電通有限公司 普翔電子貿易(上海)有限公司 東莞倍能電子有限公司

品名: 無線網路設備用天線

規格: Antenna+RG-178 Cable+SMA Plug Reverse

料號: C059-510137-A (SSR-90755)

客户: 訊舟科技股份有限公司

客户料號: 3009-0000050-012

日期: 2009/03/17

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| | 確 | 認 | | 客戶確認 |
|--------|----|---------|----|------|
| 製作 | 審核 | 核准 | 業務 | |
| Criai) | | RomaoHa | | |

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RF Antenna Assembly

Specification

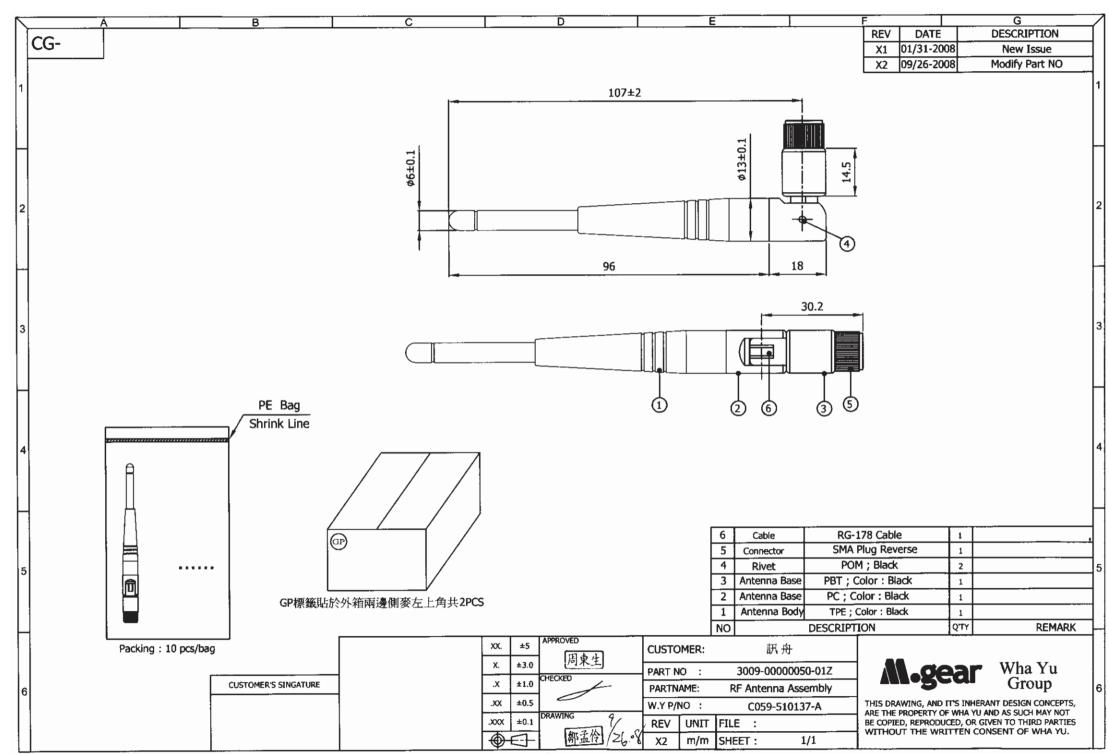
1. Electrical Properties:

| 1.1 Frequency Range | . 2.4GHz ~ 2.5GHz |
|---------------------|---------------------|
| 1.2 Impedance | 50 Ω Nominal |
| 1.3 VSWR | . 1.92 :1Max. |
| 1.4 Return Loss | 10 dB Max. |
| 1.5 Radiation | . Omni-directional |
| 1.6 Gain(peak) | . 3.0dBi |
| 1.7 Polarization | . Linear; Vertical |
| 1.8 Admitted Power | 1W |
| 1.9 Cable | RG-178 Cable |
| | |

1.10 Connector......SMA Plug Reverse

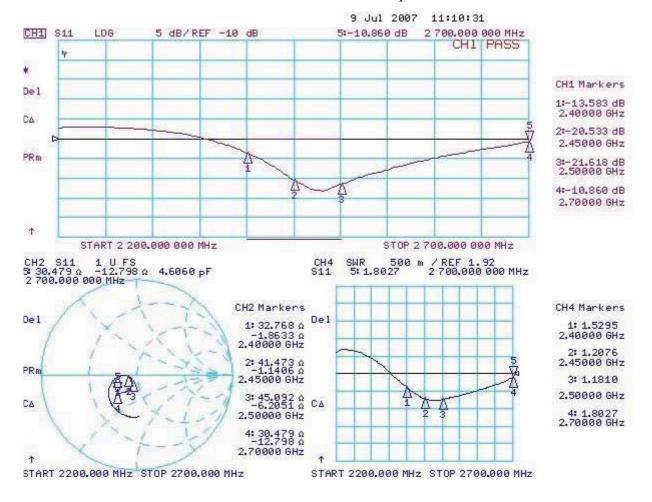
2. Physical Properties:

| 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 | Black |



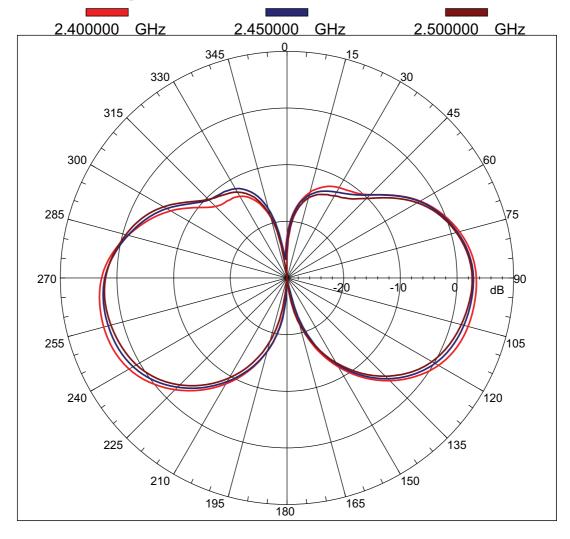


RF Antenna Assembly P/No.C059-510137-A SSR-90755 Spec2.4~2.5GHz



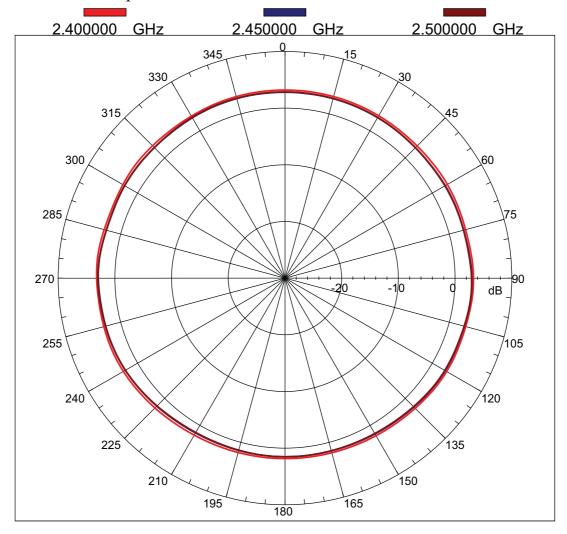
M.gear Wha Yu Group

Far-field amplitude of C059-510137-A SSR-90755 E H-PLANE.nsi



M.gear Wha Yu Group

Far-field amplitude of C059-510137-A SSR-90755 V H-PLANE.nsi



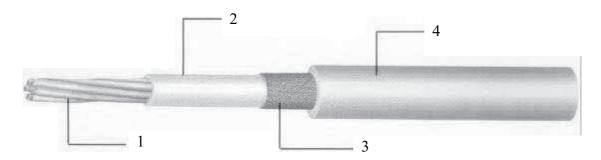
11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C. Nizing Electric Co., Ltd. Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

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



| Iter | n | 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 | |
|-------|-----------|--|
| Note: | APPROVALS | |

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 | 16. Oct. 2003 |
| STANDARD | CABLE | REVISED | |

III - Characteristics

| Item | Unit | Specified Value | Note |
|--------------------------|------------------------|---|------------|
| Temperature Rating | $^{\circ}\mathbb{C}$ | -55 ∼ +200 | |
| Voltage Lasting | Voltage Lasting V 1000 | | |
| Did at a d | | Dielectric core: No breakdown at AC 3 kv for 0.2 sec. | Spark test |
| Dielectric strength | _ | Jacket: No breakdown at AC 3 kv for 0.2 sec. | Spark test |
| Characteristic Impedance | Ω | 50 ± 2 | TDR method |
| Capacitance | pacitance pF / m 29.4 | | at 1 kHz |
| | | 52.0 | 1.0 GHz |
| | dB / 30m | 94.0 | 3.0 GHz |
| Attenuation. (Max.) | | - | 5.0 GHz |
| | | 16.0 | 100.0 GHz |
| | | 33.0 | 400.0 GHz |
| Approx. Weight | g / m | 7.68 | |

| Note: | MADE BY | |
|-------|-----------|--|
| Note. | APPROVALS | |



WHA YU INDUSTRIAL CO., LTD

Connector Material Data Sheet

| 請以 | 裕料號 hayu P/N | 裕料號 100-2001247-AZ 產 | | | 產品 Produ | 占名稱 ct Name | Big | g SMA Str Fo | raight Plug Reverse or RG-178 |
|--------------------|---|----------------------|----|---------|-------------|----------------|-----|-----------------|----------------------------------|
| Structural Drawing | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | Ma | aterial | | | | | Surface |
| 1 | Dielectric | Teflon | | | | PTFE | | | N/A |
| 2 | Shell | Plastic | | | P | BT+FB | | | Black |
| 3 | Bady | Zinc Alloy | Zn | Fe | Al | Mg | Cu | Pb | Nickel Plated |
| 4 | Pin | Phosphor Bronze | Cu | Sn | Р | Zn | Pb | | Gold Plated |
| 5 | Dielectric | Teflon | | | | PTFE | | | N/A |
| 6 | Ferrule | Brass | Cu | Pb | Fe | Fe+Sn | Zn | | Nickel Plated |
| Ren | Remark: 園間影滿 雪迴腦腳 田爾圖屬 面聽毘業 | | | | | | | | |

SGS Test Report

Product : RF Antenna AssemblyContent

| No | D | escription | Report No. | Page | |
|----|--------------|---------------------|------------------|------------|--|
| | | | CE/2009/11501C | | |
| 1 | Cable | RG-178 Cable | CE/2008/C7175 | P.10~49 | |
| | | | CE/2008/C4566 | | |
| 2 | A.,4 | TDE | CE/2009/27405 | D 50 50 | |
| 2 | Antenna Body | TPE | SZHH00237604 | P.50~59 | |
| 2 | At D | D.C. | KA/2008/C2022 | P.60~65 | |
| 3 | Antenna Base | PC | SZHH00237604 | P.57~59 | |
| 4 | A | DDT | EC408442500 | P.66~71 | |
| 4 | Antenna Base | PBT | SZHH00237604 | P.57~59 | |
| 5 | Disease | DOM | CANEC0802431101 | P.72~74 | |
| 3 | Rivet | POM | SZHH00237604 | P.57~59 | |
| | | | CANEC0804900401 | | |
| | Connector | | SH8054131-2/CHEM | | |
| | | | CANEC0802557501 | | |
| 6 | | SMA Plug Reverse | CANEC0805672902 | P.75~102 | |
| | | | CANEC0806170701 | | |
| | | | CANEC0801344101 | | |
| | | | SH8058060/CHEM | | |
| 7 | Cional Tuba | Draggi Dlatad Cold | CANEC0804900401 | P.75~77 | |
| / | Signal Tube | Brass;Plated-Gold | CANEC0802557501 | P.82~84 | |
| | | | CANEC0804900401 | P.75~77 | |
| 8 | Ground Tube | Brass,Plated-Ni POM | CANEC0805672902 | P.85~91 | |
| | | | KE/2008/C2794 | P.103~108 | |
| 9 | H.S. Tube | Heat Shrink Tube | CE/2008/38467 | D 100- 124 | |
| 9 | п.5. Tube | neat Simink Tube | CE/2007/C7382B | P.109~124 | |

Result for RoHS: PASS