
Arcadyan

承認書

SPECIFICATION FOR APPROVAL

客戶名稱(CUSTOMER): _____

品名(DESCRIPTION): WN8522A 4-LF-CP Antenna PCB

Arcadyan 品號(Arcadyan PART NO): 141852220003J

送樣日期(DATE): _____

承認號碼(APPROVED NO): _____

| | | | |
|----------------|----------------|----------------------|---------------|
| 研發部 R&D.DEP | 品管部 Q.C DEP | 採購部 PURCHASER DEP | 經理 MANAGER |
| | | | |

Arcadyan



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Arcadyan Confidential

Antenna Specification

1. Electrical Specification

- 1.1 Frequency Range..... 2.4-2.5GHz, 4.9-5.85GHz
- 1.2 Impedance 50 ohm
- 1.3 VSWR 2.0 Max within 2.4-2.5 GHz
2.5 Max within 4.9-5.85GHz
- 1.4 Peak Gain..... 3.04dBi within 2.4-2.5GHz
5.94dBi within 4.9-5.85GHz
- 1.5 Efficiency..... 40% Min
- 1.6 Antenna Type.....Printed IFA Antenna (PIFA)

2. Physical Specification

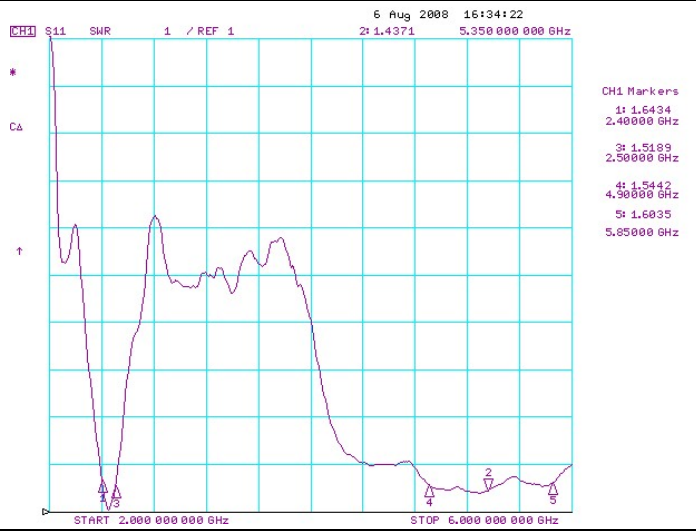
- 2.1 Storage Temp.....-30°C~+75°C
- 2.2 Operating Temp.....-20°C~+65°C
- 2.3 Material..... Printed PCB
- 2.4 Humidity 95%@25C
- 2.5 Coaxial Cable Type.....1.13
- 2.6 Coaxial Cable Spec..... See attached file
- 2.7 Connector Type I-PEX

VSWR

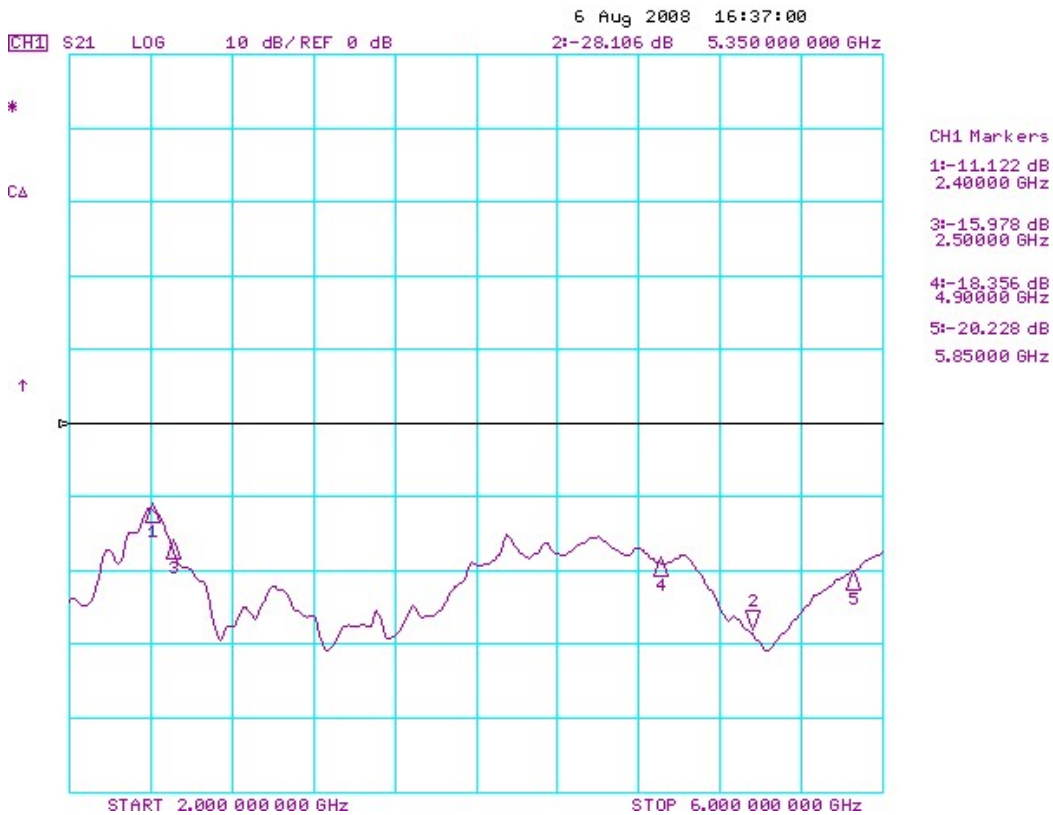
Ant 1



Ant 2

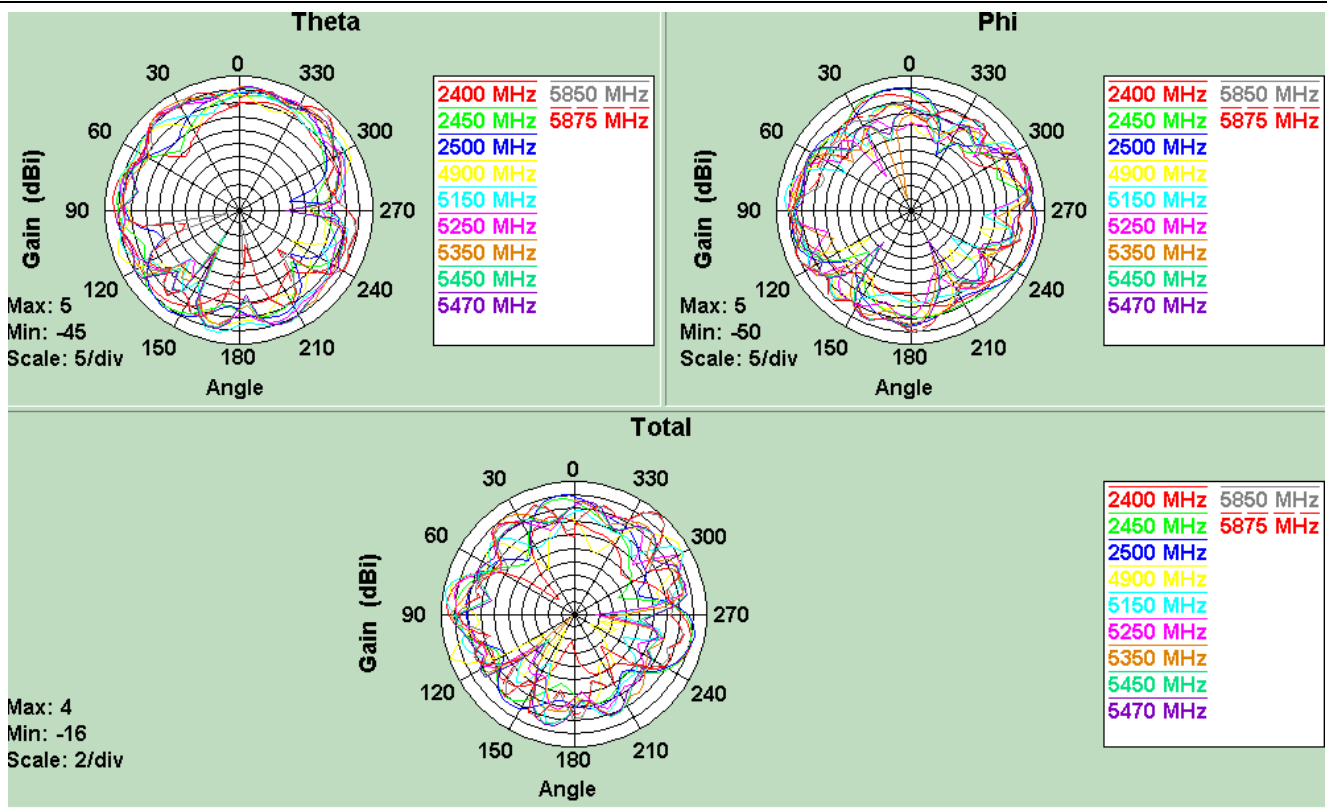


Isolation

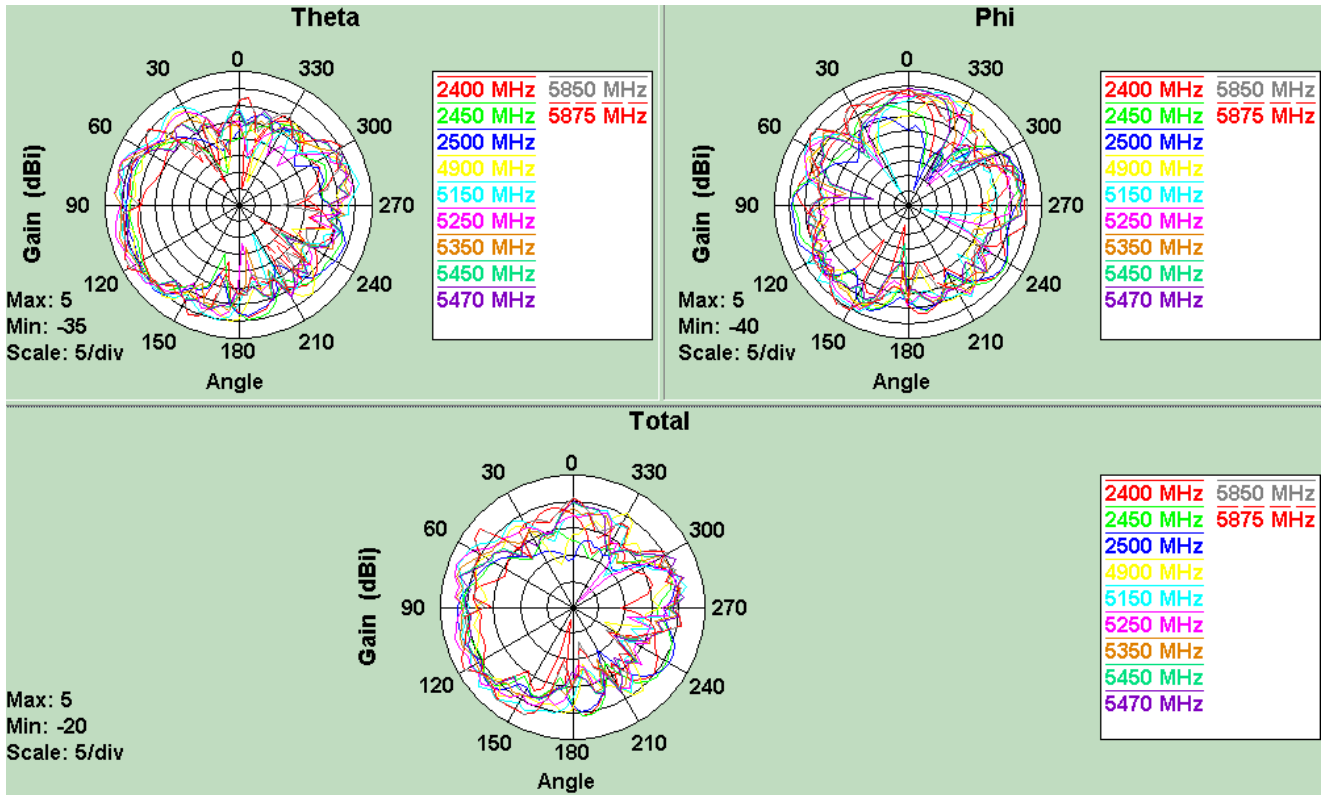




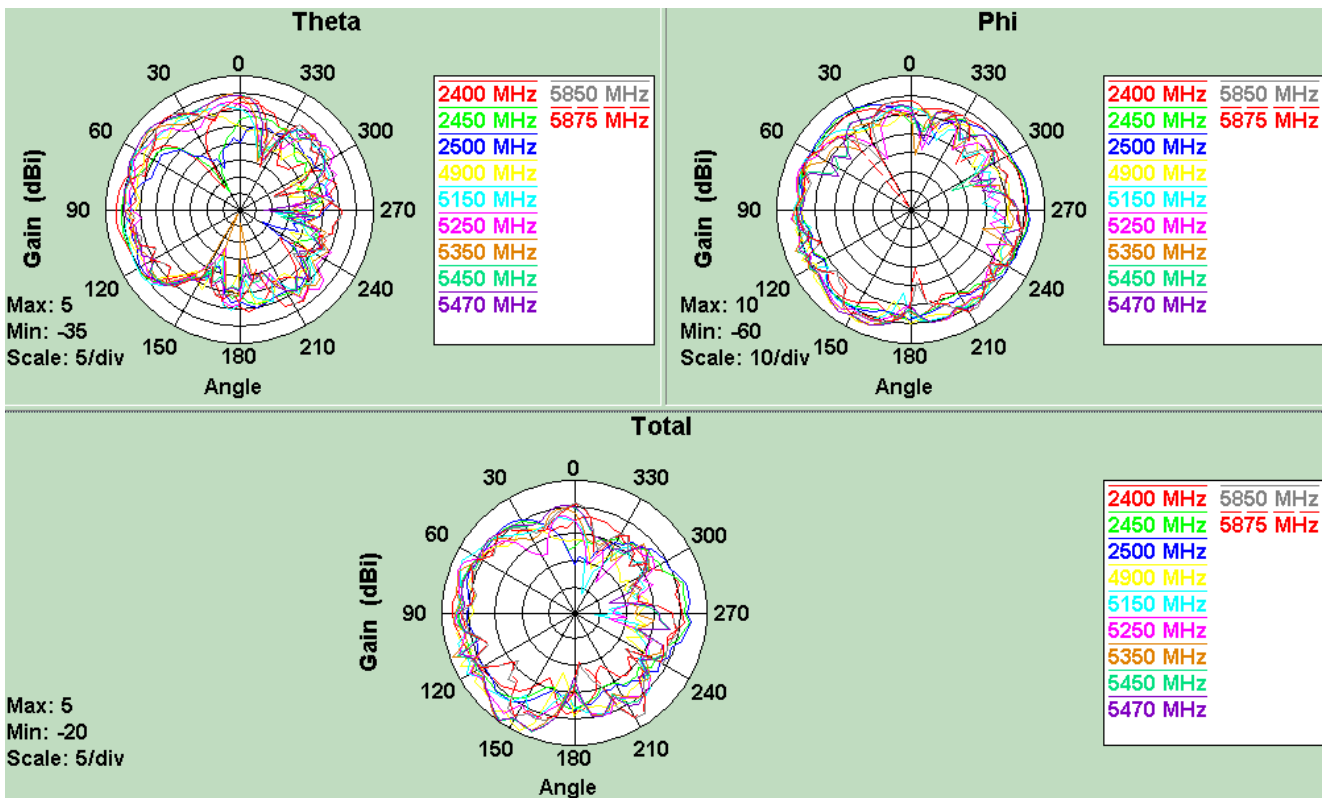
Ant 1 XY plan Gain pattern



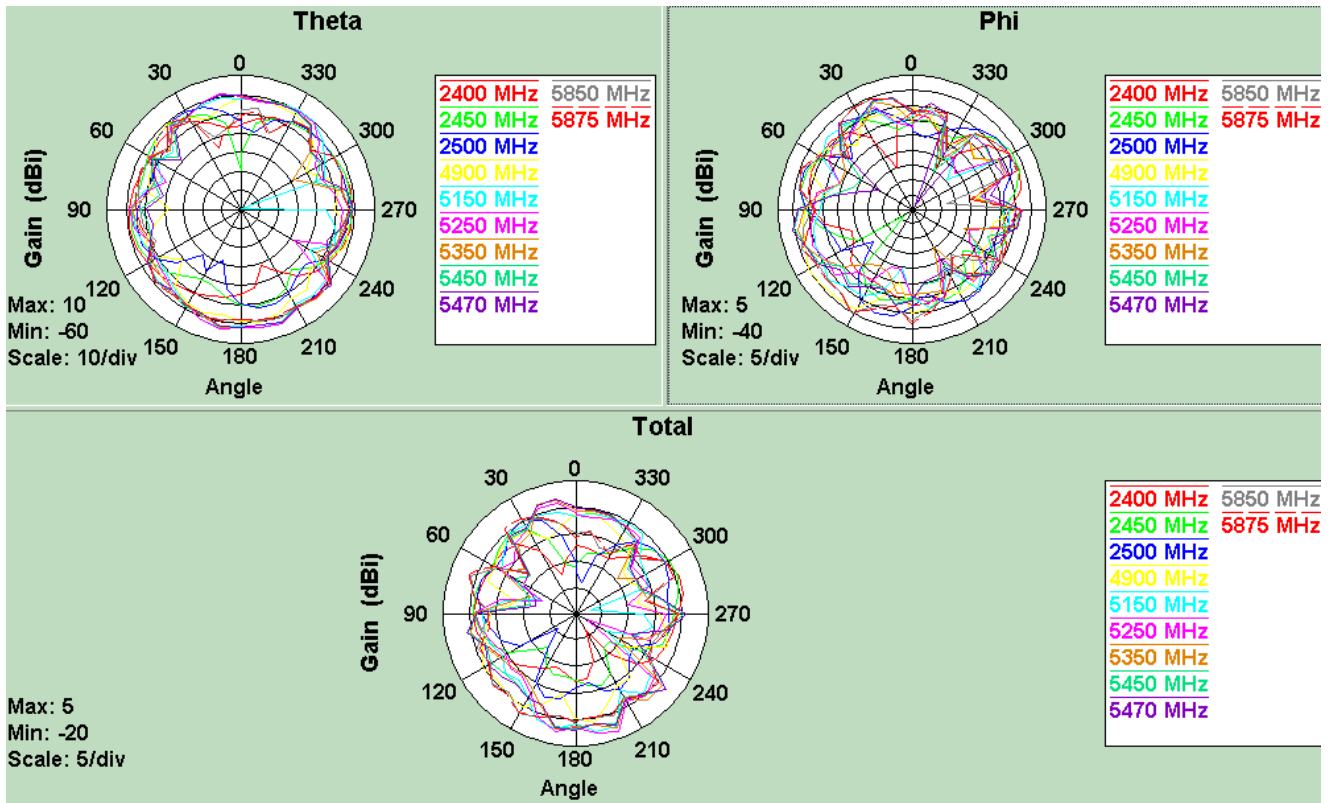
Ant 1 XZ plan Gain pattern



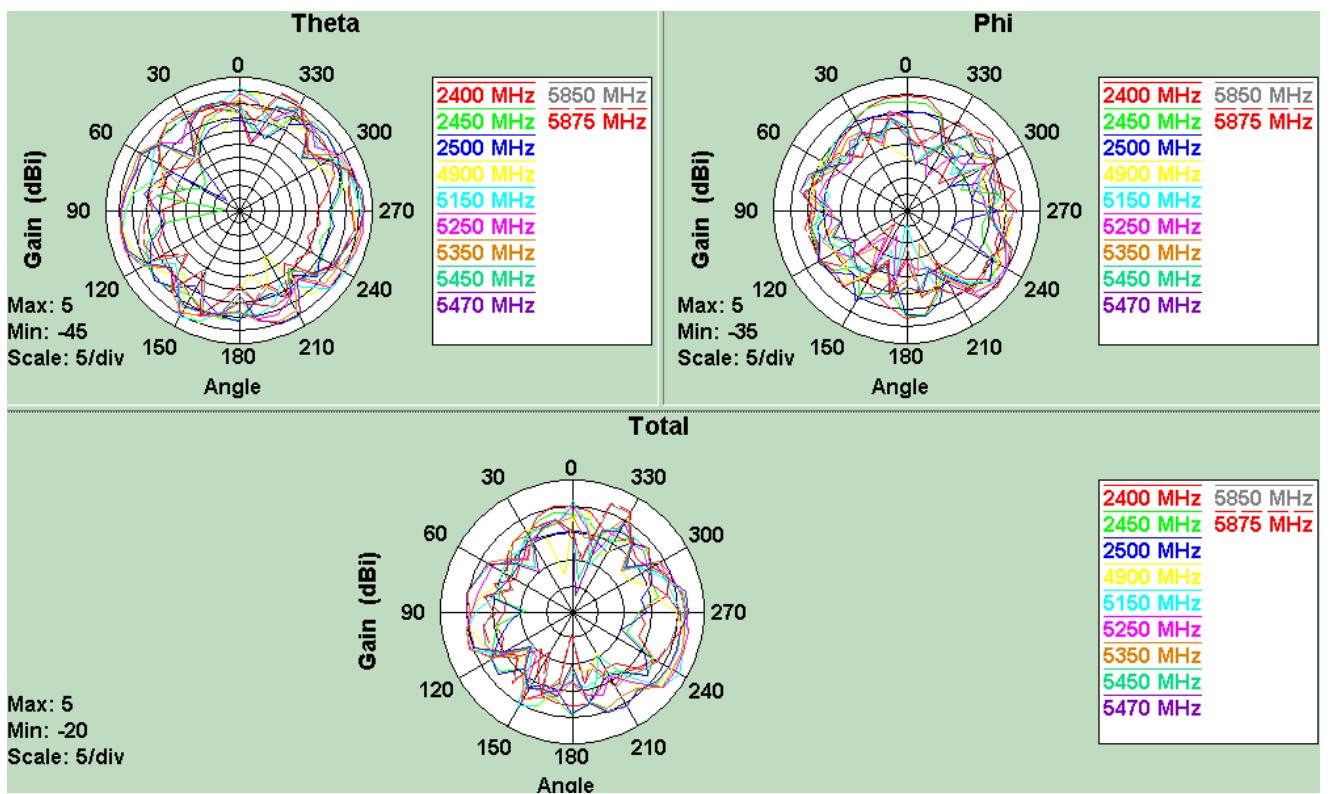
Ant 1 YZ plan Gain pattern



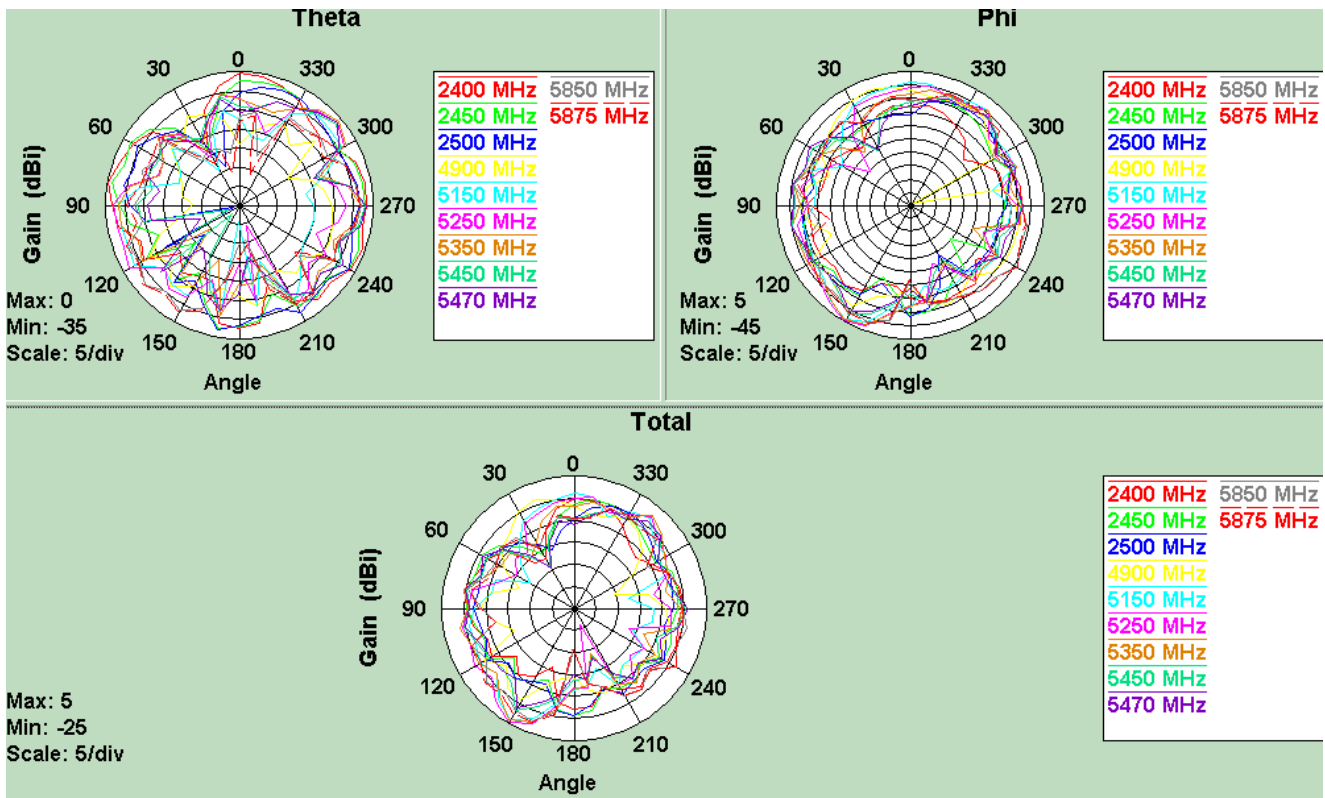
Ant 2 XY plan Gain pattern



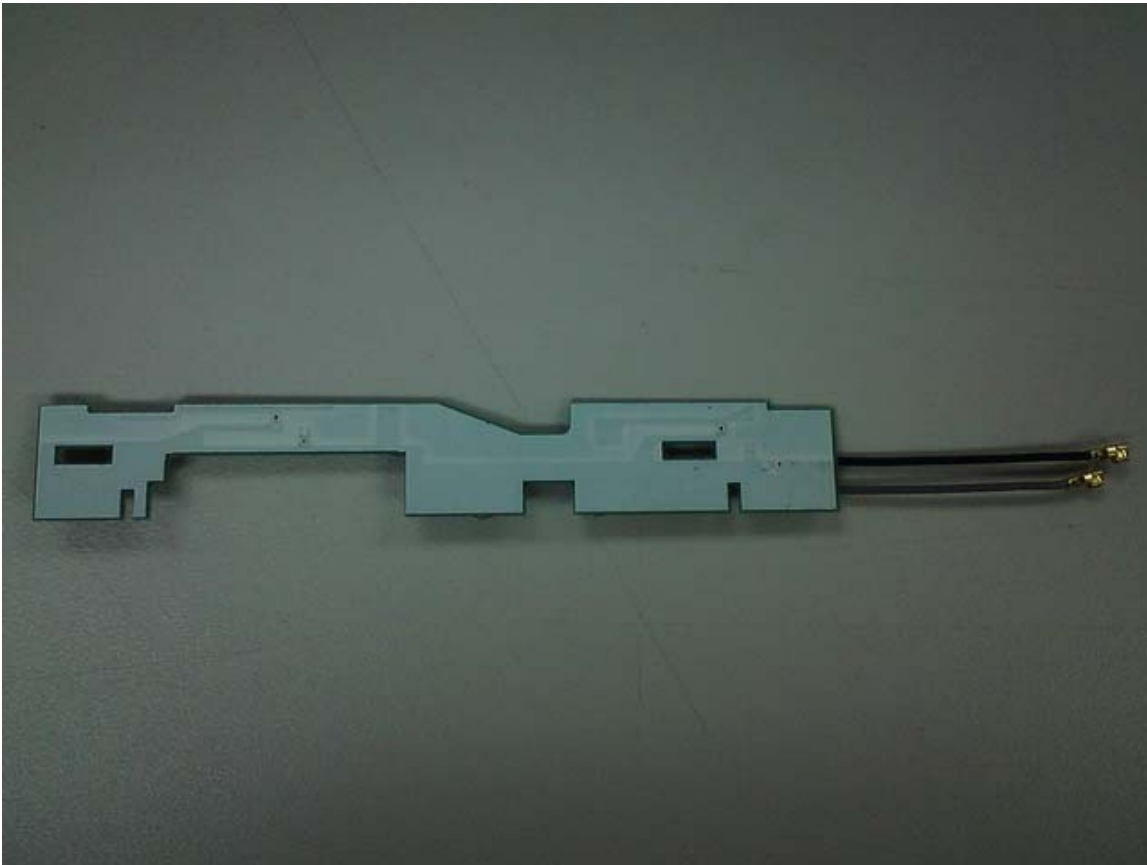
Ant 2 XZ plan Gain pattern



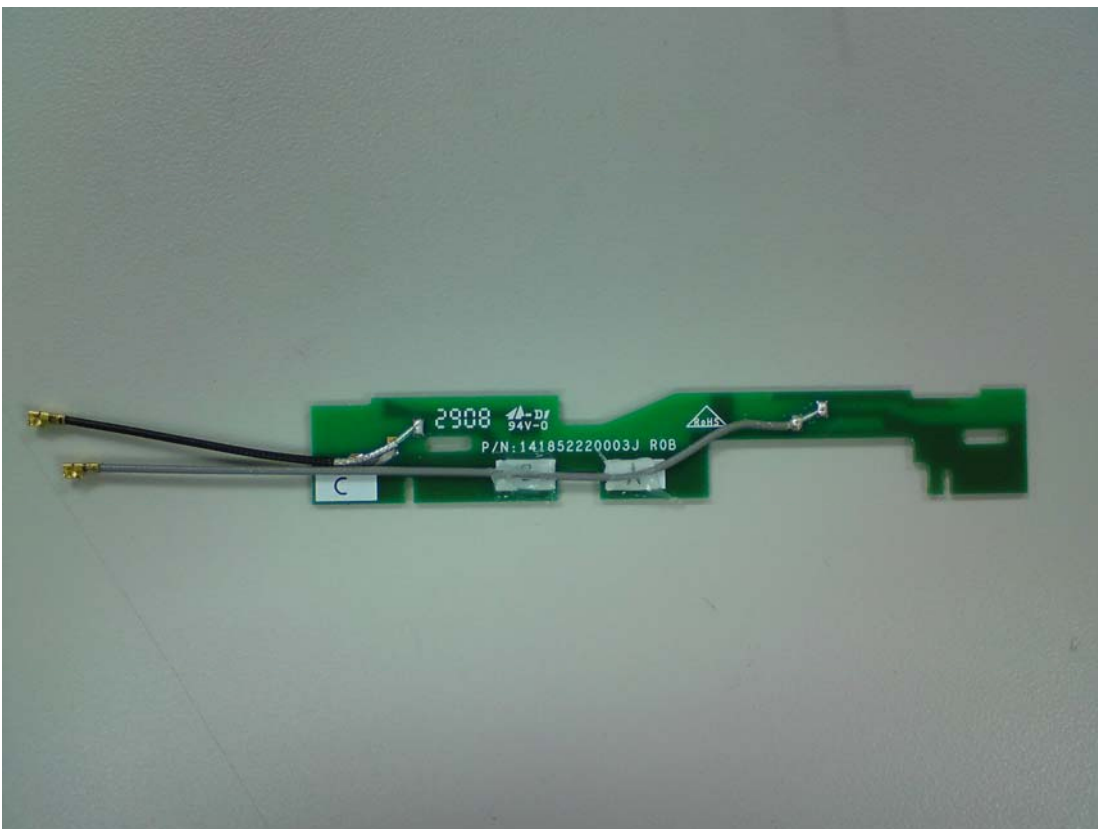
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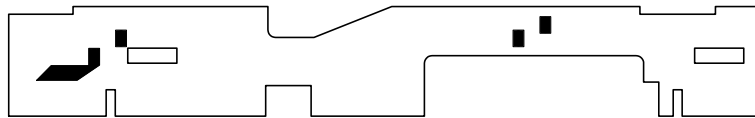


Front View

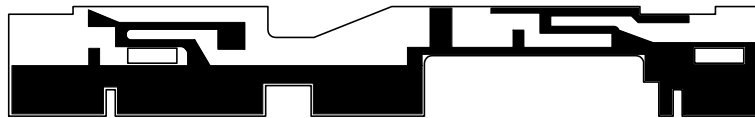


Back view

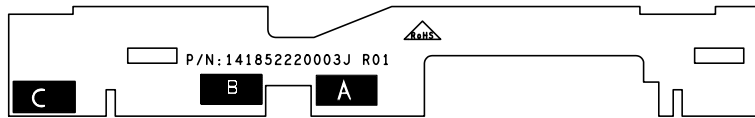




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|-------------------------|---|-----------------|--------------------------------|
| ARCADYAN TECHNOLOGY CO. | | DATE:2008/08/11 | LAYOUT: MONICA |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. | 141852220003J R/D: JACKY_CHENG |
| LAYER NAME: | TOP_COMPONENT_SIDE(Positive) SHEET: 1 OF 10 | | REV:01 |



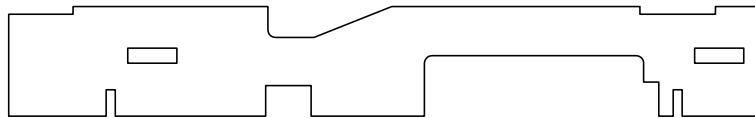
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|-------------------------|--|-----------------|--------------------------------|
| ARCADYAN TECHNOLOGY CO. | | DATE:2008/08/11 | LAYOUT: MONICA |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. | 141852220003J R/D: JACKY_CHENG |
| LAYER NAME: | BOT_SOLDER_SIDE(Positive) SHEET: 2 OF 10 | | REV:01 |



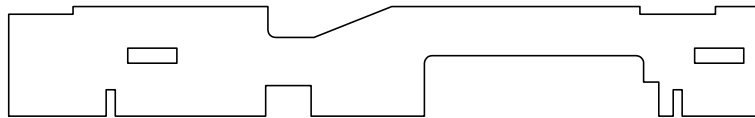
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|-------------------------|----------------------|------------------------|------------------|
| ARCADYAN TECHNOLOGY CO. | | DATE: 2008/08/11 | LAYOUT: MONICA |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. 141852220003J | R/D: JACKY_CHENG |
| LAYER NAME: | SST (SILKSCREEN_TOP) | SHEET: 3 OF 10 | REV: 01 |



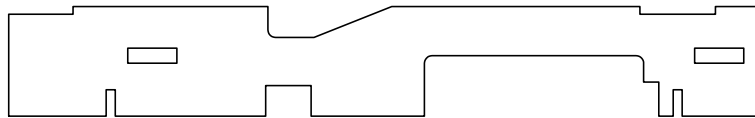
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|-------------------------|--|------------------------|------------------|
| ARCADYAN TECHNOLOGY CO. | | DATE: 2008/08/11 | LAYOUT: MONICA |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. 141852220003J | R/D: JACKY_CHENG |
| LAYER NAME: | SSB (SILKSCREEN_BOTTOM) SHEET: 4 OF 10 | | REV:01 |



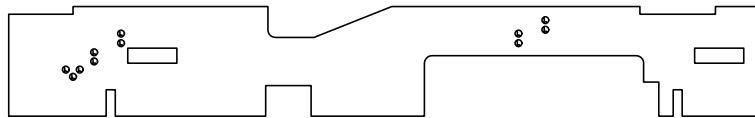
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|-------------------------|--------------------------|-----------------|---------------|------------------|--------|
| ARCADYAN TECHNOLOGY CO. | | DATE:2008/08/11 | | LAYOUT: MONICA | |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. | 141852220003J | R/D: JACKY_CHENG | |
| LAYER NAME: | SMB (SOLDER_MASK_BOTTOM) | | | SHEET: 6 OF 10 | REV:01 |



| | | | |
|-------------------------|----------------------|------------------------|------------------|
| ARCADYAN TECHNOLOGY CO. | | DATE: 2008/08/11 | LAYOUT: MONICA |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. 141852220003J | R/D: JACKY_CHENG |
| LAYER NAME: | PMT (PASTE_MASK_TOP) | SHEET: 7 OF 10 | REV: 01 |

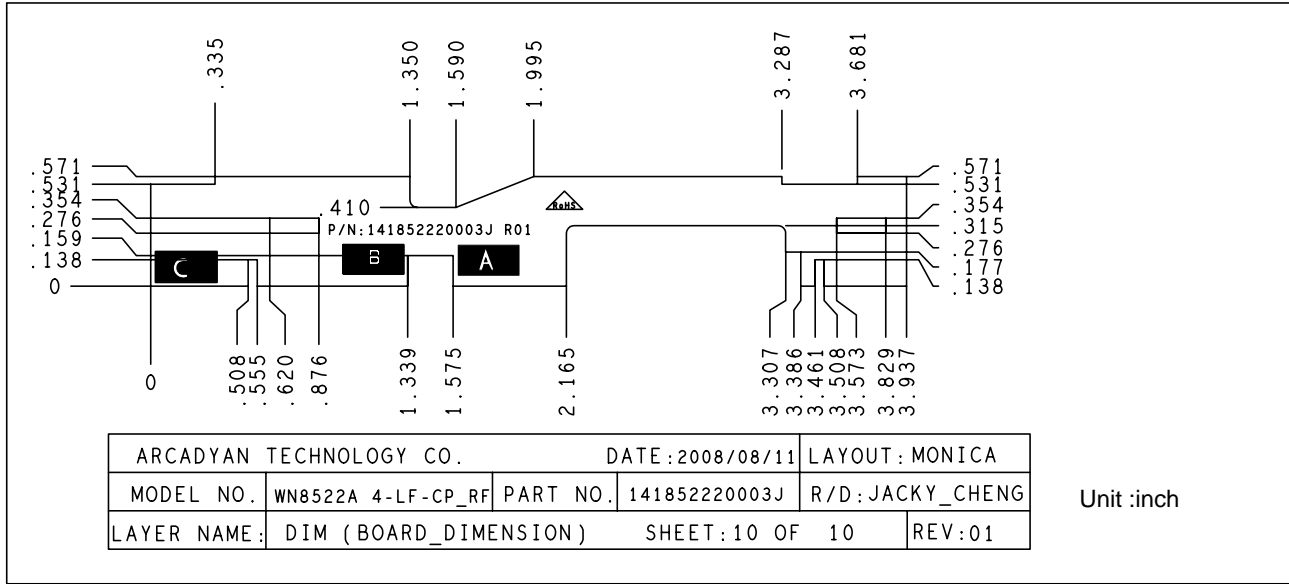


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|-------------------------|-------------------------|------------------|--------------------------------|
| ARCADYAN TECHNOLOGY CO. | | DATE: 2008/08/11 | LAYOUT: MONICA |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. | 141852220003J R/D: JACKY_CHENG |
| LAYER NAME: | PMB (PASTE_MASK_BOTTOM) | SHEET: 8 OF 10 | REV: 01 |



| DRILL CHART | | | |
|-----------------------|------|---------|-----|
| ALL UNITS ARE IN MILS | | | |
| FIGURE | SIZE | PLATING | QTY |
| • | 16.0 | PLATED | 11 |

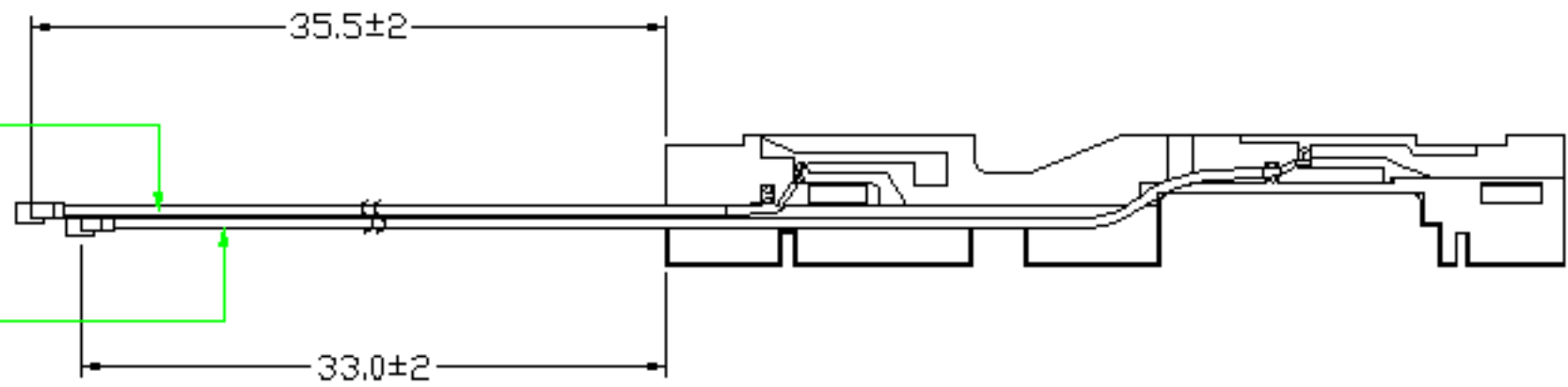
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|-------------------------|------------------------------|------------------|---------------|------------------|--------|
| ARCADYAN TECHNOLOGY CO. | | DATE: 2008/08/11 | | LAYOUT: MONICA | |
| MODEL NO. | WN8522A 4-LF-CP_RF | PART NO. | 141852220003J | R/D: JACKY_CHENG | |
| LAYER NAME: | DRILL(FINISH HOLE SIZE LIST) | | | SHEET: 9 OF 10 | REV:01 |




Unit :inch


CABLE LENGTH: 53.5 ± 2.0
DIAMETER: $\varnothing 1.13\text{MM}$
COLOR: BLACK

CABLE LENGTH: 106 ± 2.0
DIAMETER: $\varnothing 1.13\text{MM}$
COLOR: GRAY

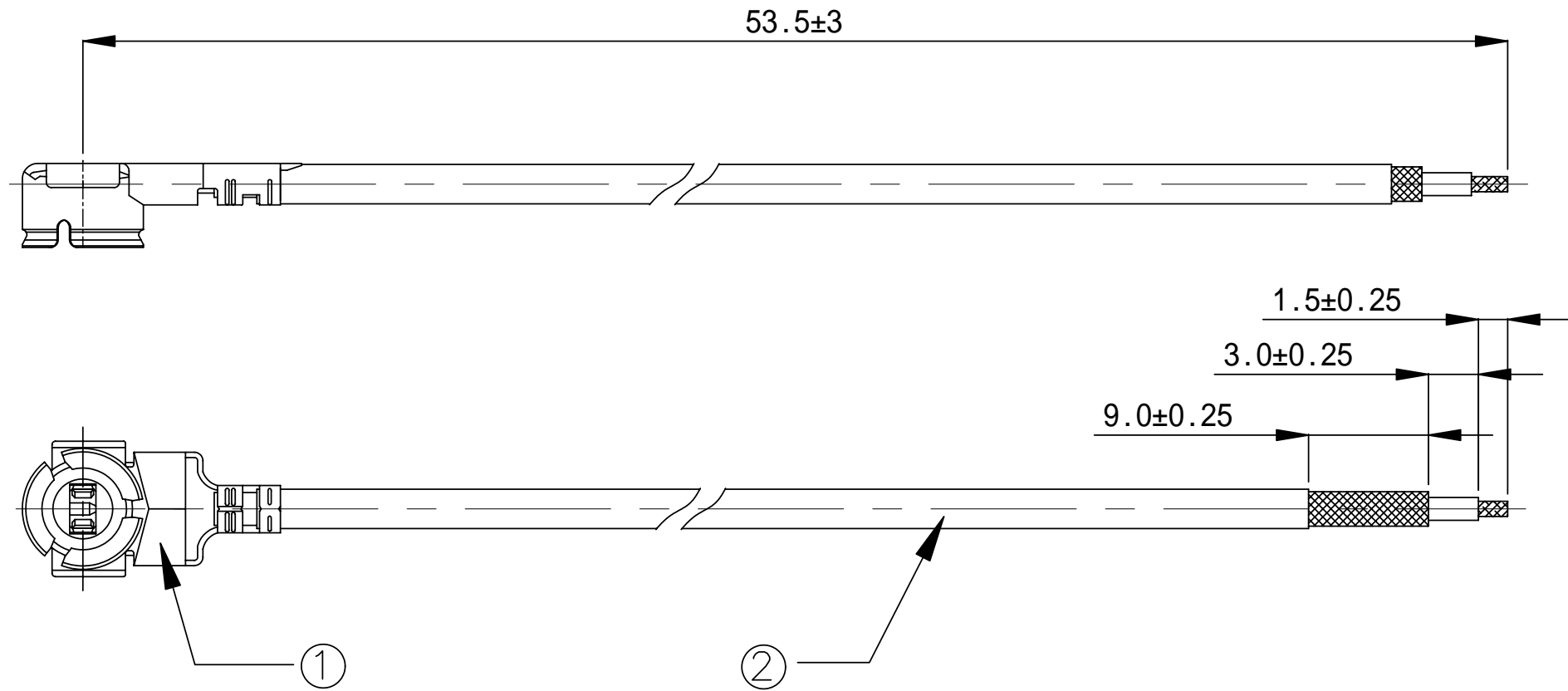


| | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|--|
| Test Date | 39638.00 | | | | | | | | | | | |
| Trade Name | Arcadyan | | | | | | | | | | | |
| App.No | 08-D0809-C | | | | | | | | | | | |
| Model Name | WN8522A 4-LF-CP | | | | | | | | | | | |
| Test Mode Free Space & Talking Position | Free Space | | | | | | | | | | | |
| Communication System | | | | | | | | | | | | |
| Frequency | 2400 | 2450 | 2500 | 4900 | 5150 | 5250 | 5350 | 5450 | 5470 | 5850 | 5875 | |
| TC02 Note | <p style="text-align: center;">Antenna 1</p>  | | | | | | | | | | | |
| Ant. Port Input Pwr. (dBm) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tot. Rad. Pwr. (dBm) | (2.78) | (2.07) | (1.78) | (1.85) | (1.53) | (1.70) | (1.54) | (1.61) | (1.64) | (1.63) | (1.62) | |
| Peak EIRP (dBm) | 3.04 | 2.06 | 2.35 | 5.94 | 4.17 | 4.46 | 5.36 | 5.03 | 4.89 | 4.10 | 4.07 | |
| Directivity (dBi) | 5.81 | 4.13 | 4.13 | 7.79 | 5.71 | 6.16 | 6.90 | 6.64 | 6.53 | 5.72 | 5.69 | |
| Efficiency (dB) | (2.78) | (2.07) | (1.78) | (1.85) | (1.53) | (1.70) | (1.54) | (1.61) | (1.64) | (1.63) | (1.62) | |
| Efficiency (%) | 52.76 | 62.14 | 66.38 | 65.38 | 70.23 | 67.60 | <u>70.08</u> | 69.06 | 68.53 | 68.74 | 68.84 | |
| Gain (dBi) | 3.04 | 2.06 | 2.35 | 5.94 | 4.17 | 4.46 | 5.36 | 5.03 | 4.89 | 4.10 | 4.07 | |
| NHPRP ±Pi/4 (dBm) | (3.94) | (3.09) | (2.76) | (3.41) | (3.01) | (3.05) | (2.78) | (2.88) | (2.92) | (2.83) | (2.81) | |
| NHPRP ±Pi/6 (dBm) | (5.28) | (4.35) | (3.98) | (4.95) | (4.35) | (4.27) | (3.97) | (4.10) | (4.15) | (4.01) | (3.98) | |
| NHPRP ±Pi/8 (dBm) | (6.34) | (5.43) | (5.06) | (6.19) | (5.47) | (5.33) | (4.99) | (5.15) | (5.21) | (5.03) | (4.98) | |
| Upper Hem. PRP (dBm) | (5.74) | (5.19) | (5.06) | (5.71) | (4.91) | (5.32) | (5.05) | (5.03) | (5.05) | (4.89) | (4.83) | |
| Lower Hem. PRP (dBm) | (5.84) | (4.96) | (4.53) | (4.14) | (4.20) | (4.18) | (4.11) | (4.25) | (4.28) | (4.40) | (4.44) | |
| NHPRP4 / TRP Ratio (dB) | (1.16) | (1.02) | (0.98) | (1.56) | (1.48) | (1.35) | (1.24) | (1.27) | (1.28) | (1.20) | (1.19) | |
| NHPRP4 / TRP Ratio (%) | 76.50 | 78.98 | 79.72 | 69.77 | 71.15 | 73.21 | 75.15 | 74.59 | 74.41 | 75.77 | 76.04 | |
| NHPRP6 / TRP Ratio (dB) | (2.51) | (2.28) | (2.20) | (3.11) | (2.81) | (2.57) | (2.42) | (2.49) | (2.51) | (2.38) | (2.36) | |
| NHPRP6 / TRP Ratio (%) | 56.15 | 59.13 | 60.23 | 48.91 | 52.35 | 55.39 | 57.27 | 56.38 | 56.14 | 57.77 | 58.10 | |
| NHPRP8 / TRP Ratio (dB) | (3.56) | (3.37) | (3.28) | (4.34) | (3.93) | (3.63) | (3.45) | (3.54) | (3.57) | (3.40) | (3.36) | |
| NHPRP8 / TRP Ratio (%) | 44.06 | 46.08 | 46.99 | 36.82 | 40.44 | 43.31 | 45.23 | 44.28 | 43.96 | 45.74 | 46.13 | |
| UHPRP / TRP Ratio (dB) | (2.96) | (3.13) | (3.28) | (3.86) | (3.38) | (3.61) | (3.51) | (3.42) | (3.41) | (3.26) | (3.21) | |
| UHPRP / TRP Ratio (%) | 50.56 | 48.68 | 46.94 | 41.08 | 45.93 | 43.50 | 44.56 | 45.53 | 45.57 | 47.23 | 47.75 | |
| LHPRP / TRP Ratio (dB) | (3.06) | (2.90) | (2.75) | (2.30) | (2.67) | (2.48) | (2.56) | (2.64) | (2.64) | (2.78) | (2.82) | |
| LHPRP / TRP Ratio (%) | 49.44 | 51.32 | 53.06 | 58.92 | 54.07 | 56.50 | 55.44 | 54.47 | 54.43 | 52.77 | 52.25 | |

| | | | | | | | | | | | |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Front/Back Ratio (dB) | 1.88 | 0.91 | 2.60 | 11.15 | 11.21 | 8.38 | 12.90 | 27.12 | 23.71 | 7.54 | 7.17 |
| Phi BW (°) | 36.00 | 37.00 | 32.00 | 30.00 | 18.00 | 19.00 | 16.00 | 36.00 | 36.00 | 16.00 | 15.00 |
| + Phi BW (°) | 18.00 | 14.00 | 13.00 | 17.00 | 9.00 | 9.00 | 7.00 | 18.00 | 17.00 | 7.00 | 6.00 |
| - Phi BW (°) | 18.00 | 23.00 | 19.00 | 13.00 | 9.00 | 10.00 | 9.00 | 18.00 | 19.00 | 9.00 | 9.00 |
| Theta BW (°) | 75.00 | 60.00 | 72.00 | 33.00 | 51.00 | 17.00 | 27.00 | 23.00 | 23.00 | 18.00 | 17.00 |
| + Th. BW (°) | 39.00 | 31.00 | 42.00 | 21.00 | 15.00 | 9.00 | 17.00 | 10.00 | 10.00 | 5.00 | 5.00 |
| - Th. BW (°) | 36.00 | 29.00 | 30.00 | 12.00 | 36.00 | 8.00 | 10.00 | 13.00 | 13.00 | 13.00 | 12.00 |
| Boresight Phi (°) | 85.00 | 265.00 | 265.00 | 70.00 | 85.00 | 130.00 | 85.00 | 335.00 | 335.00 | 50.00 | 50.00 |
| Boresight Th. (°) | 90.00 | 95.00 | 95.00 | 140.00 | 120.00 | 140.00 | 145.00 | 70.00 | 70.00 | 140.00 | 140.00 |
| Maximum Power (dBm) | 3.04 | 2.06 | 2.35 | 5.94 | 4.17 | 4.46 | 5.36 | 5.03 | 4.89 | 4.10 | 4.07 |
| Minimum Power (dBm) | (25.31) | (19.63) | (22.18) | (17.79) | (19.46) | (24.50) | (17.67) | (22.09) | (18.83) | (18.30) | (20.32) |
| Average Power (dBm) | (2.88) | (2.56) | (2.37) | (2.10) | (1.70) | (1.96) | (1.87) | (1.86) | (1.88) | (1.85) | (1.88) |
| Max/Min Ratio (dB) | 28.34 | 21.69 | 24.53 | 23.73 | 23.64 | 28.96 | 23.03 | 27.12 | 23.71 | 22.39 | 24.39 |
| Max/Avg Ratio (dB) | 5.91 | 4.62 | 4.72 | 8.04 | 5.87 | 6.43 | 7.23 | 6.89 | 6.76 | 5.94 | 5.95 |
| Min/Avg Ratio (dB) | (22.43) | (17.07) | (19.81) | (15.69) | (17.77) | (22.54) | (15.80) | (20.23) | (16.95) | (16.45) | (18.45) |
| Average Gain (dB) | (2.78) | (2.07) | (1.78) | (1.85) | (1.53) | (1.70) | (1.54) | (1.61) | (1.64) | (1.63) | (1.62) |
| E-Plane BW (°) | 55.00 | 43.00 | 41.00 | 22.00 | 14.00 | 33.00 | 16.00 | 22.00 | 22.00 | 19.00 | 18.00 |
| + E-Plane BW (°) | 30.00 | 13.00 | 12.00 | 12.00 | 6.00 | 25.00 | 9.00 | 12.00 | 12.00 | 5.00 | 5.00 |
| - E-Plane BW (°) | 25.00 | 30.00 | 29.00 | 10.00 | 8.00 | 8.00 | 7.00 | 10.00 | 10.00 | 14.00 | 13.00 |
| H-Plane BW (°) | 37.00 | 122.00 | 127.00 | 38.00 | 23.00 | 19.00 | 30.00 | 39.00 | 41.00 | 14.00 | 14.00 |
| + H-Plane BW (°) | 17.00 | 29.00 | 45.00 | 23.00 | 6.00 | 10.00 | 20.00 | 24.00 | 26.00 | 7.00 | 7.00 |
| - H-Plane BW (°) | 20.00 | 93.00 | 82.00 | 15.00 | 17.00 | 9.00 | 10.00 | 15.00 | 15.00 | 7.00 | 7.00 |

| | | | | | | | | | | | | |
|--|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Test Date | 39638.00 | | | | | | | | | | | |
| Trade Name | Arcadyan | | | | | | | | | | | |
| App.No | 08-D0809-C | | | | | | | | | | | |
| Model Name | WN8522A 4-LF-CP | | | | | | | | | | | |
| Test Mode Free Space & Talking Position | Free Space | | | | | | | | | | | |
| Communication System | | | | | | | | | | | | |
| Frequency | 2400 | 2450 | 2500 | 4900 | 5150 | 5250 | 5350 | 5450 | 5470 | 5850 | 5875 | |
| TC02 Note | <p style="text-align: center;">Antenna 2</p>  | | | | | | | | | | | |
| Ant. Port Input Pwr. (dBm) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tot. Rad. Pwr. (dBm) | (3.77) | (3.19) | (3.31) | (3.11) | (2.52) | (2.47) | (2.31) | (2.53) | (2.42) | (2.21) | (2.14) | |
| Peak EIRP (dBm) | 0.91 | 1.90 | 2.20 | 2.70 | 3.75 | 4.54 | 4.71 | 4.37 | 4.30 | 3.71 | 3.81 | |
| Directivity (dBi) | 4.68 | 5.09 | 5.51 | 5.81 | 6.27 | 7.01 | 7.02 | 6.90 | 6.73 | 5.91 | 5.94 | |
| Efficiency (dB) | (3.77) | (3.19) | (3.31) | (3.11) | (2.52) | (2.47) | (2.31) | (2.53) | (2.42) | (2.21) | (2.14) | |
| Efficiency (%) | 41.96 | 47.96 | 46.64 | 48.89 | 56.03 | 56.66 | 58.76 | 55.79 | 57.22 | 60.17 | 61.15 | |
| Gain (dBi) | 0.91 | 1.90 | 2.20 | 2.70 | 3.75 | 4.54 | 4.71 | 4.37 | 4.30 | 3.71 | 3.81 | |
| NHPRP ±Pi/4 (dBm) | (5.31) | (4.69) | (4.75) | (4.43) | (3.93) | (3.83) | (3.65) | (3.71) | (3.58) | (3.78) | (3.74) | |
| NHPRP ±Pi/6 (dBm) | (6.78) | (6.35) | (6.45) | (5.96) | (5.30) | (5.10) | (4.88) | (4.86) | (4.74) | (5.20) | (5.19) | |
| NHPRP ±Pi/8 (dBm) | (7.98) | (7.63) | (7.71) | (7.16) | (6.38) | (6.10) | (5.85) | (5.79) | (5.67) | (6.23) | (6.23) | |
| Upper Hem. PRP (dBm) | (6.87) | (6.53) | (6.81) | (6.45) | (5.99) | (5.77) | (5.58) | (5.94) | (5.84) | (5.25) | (5.22) | |
| Lower Hem. PRP (dBm) | (6.70) | (5.90) | (5.89) | (5.81) | (5.10) | (5.20) | (5.07) | (5.18) | (5.07) | (5.18) | (5.07) | |
| NHPRP4 / TRP Ratio (dB) | (1.53) | (1.50) | (1.44) | (1.32) | (1.41) | (1.36) | (1.34) | (1.18) | (1.16) | (1.57) | (1.61) | |
| NHPRP4 / TRP Ratio (%) | 70.23 | 70.82 | 71.76 | 73.75 | 72.21 | 73.04 | 73.46 | 76.29 | 76.60 | 69.64 | 69.04 | |
| NHPRP6 / TRP Ratio (dB) | (3.01) | (3.16) | (3.14) | (2.85) | (2.79) | (2.63) | (2.57) | (2.33) | (2.32) | (3.00) | (3.05) | |
| NHPRP6 / TRP Ratio (%) | 50.01 | 48.35 | 48.58 | 51.88 | 52.66 | 54.53 | 55.32 | 58.49 | 58.64 | 50.15 | 49.50 | |
| NHPRP8 / TRP Ratio (dB) | (4.21) | (4.44) | (4.39) | (4.05) | (3.87) | (3.64) | (3.54) | (3.26) | (3.24) | (4.03) | (4.09) | |
| NHPRP8 / TRP Ratio (%) | 37.92 | 35.96 | 36.35 | 39.35 | 41.04 | 43.30 | 44.24 | 47.24 | 47.38 | 39.57 | 38.99 | |

| | | | | | | | | | | | |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| UHPRP / TRP Ratio (dB) | (3.10) | (3.34) | (3.50) | (3.34) | (3.48) | (3.31) | (3.27) | (3.41) | (3.41) | (3.04) | (3.09) |
| UHPRP / TRP Ratio (%) | 49.03 | 46.35 | 44.70 | 46.30 | 44.89 | 46.71 | 47.10 | 45.61 | 45.57 | 49.63 | 49.13 |
| LHPRP / TRP Ratio (dB) | (2.93) | (2.70) | (2.57) | (2.70) | (2.59) | (2.73) | (2.77) | (2.64) | (2.64) | (2.98) | (2.94) |
| LHPRP / TRP Ratio (%) | 50.97 | 53.65 | 55.30 | 53.70 | 55.11 | 53.29 | 52.91 | 54.39 | 54.43 | 50.37 | 50.87 |
| Front/Back Ratio (dB) | 5.14 | 8.26 | 5.90 | 7.20 | 3.73 | 5.16 | 10.38 | 9.95 | 9.85 | 10.33 | 10.49 |
| Phi BW (°) | 34.00 | 33.00 | 48.00 | 23.00 | 27.00 | 25.00 | 18.00 | 21.00 | 21.00 | 21.00 | 20.00 |
| + Phi BW (°) | 19.00 | 16.00 | 28.00 | 12.00 | 17.00 | 16.00 | 10.00 | 14.00 | 14.00 | 13.00 | 12.00 |
| - Phi BW (°) | 15.00 | 17.00 | 20.00 | 11.00 | 10.00 | 9.00 | 8.00 | 7.00 | 7.00 | 8.00 | 8.00 |
| Theta BW (°) | 56.00 | 58.00 | 46.00 | 37.00 | 26.00 | 27.00 | 23.00 | 22.00 | 23.00 | 17.00 | 16.00 |
| + Th. BW (°) | 26.00 | 29.00 | 22.00 | 11.00 | 12.00 | 14.00 | 14.00 | 14.00 | 15.00 | 10.00 | 9.00 |
| - Th. BW (°) | 30.00 | 29.00 | 24.00 | 26.00 | 14.00 | 13.00 | 9.00 | 8.00 | 8.00 | 7.00 | 7.00 |
| Boresight Phi (°) | 50.00 | 50.00 | 320.00 | 170.00 | 90.00 | 90.00 | 220.00 | 220.00 | 220.00 | 70.00 | 70.00 |
| Boresight Th. (°) | 120.00 | 120.00 | 130.00 | 130.00 | 150.00 | 150.00 | 100.00 | 100.00 | 100.00 | 110.00 | 110.00 |
| Maximum Power (dBm) | 0.91 | 1.90 | 2.20 | 2.70 | 3.75 | 4.54 | 4.71 | 4.37 | 4.30 | 3.71 | 3.81 |
| Minimum Power (dBm) | (18.43) | (18.09) | (17.03) | (16.77) | (17.67) | (21.18) | (18.78) | (19.07) | (17.11) | (18.98) | (18.64) |
| Average Power (dBm) | (3.25) | (2.90) | (3.33) | (3.41) | (2.48) | (2.59) | (2.61) | (3.14) | (3.11) | (2.76) | (2.66) |
| Max/Min Ratio (dB) | 19.35 | 19.99 | 19.23 | 19.47 | 21.42 | 25.72 | 23.50 | 23.44 | 21.41 | 22.68 | 22.45 |
| Max/Avg Ratio (dB) | 4.16 | 4.81 | 5.52 | 6.11 | 6.23 | 7.14 | 7.32 | 7.51 | 7.41 | 6.47 | 6.46 |
| Min/Avg Ratio (dB) | (15.18) | (15.19) | (13.70) | (13.36) | (15.19) | (18.58) | (16.17) | (15.94) | (14.00) | (16.21) | (15.99) |
| Average Gain (dB) | (3.77) | (3.19) | (3.31) | (3.11) | (2.52) | (2.47) | (2.31) | (2.53) | (2.42) | (2.21) | (2.14) |
| E-Plane BW (°) | 41.00 | 40.00 | 39.00 | 40.00 | 25.00 | 25.00 | 19.00 | 20.00 | 21.00 | 17.00 | 17.00 |
| + E-Plane BW (°) | 17.00 | 19.00 | 17.00 | 10.00 | 9.00 | 16.00 | 10.00 | 9.00 | 10.00 | 10.00 | 10.00 |
| - E-Plane BW (°) | 24.00 | 21.00 | 22.00 | 30.00 | 16.00 | 9.00 | 9.00 | 11.00 | 11.00 | 7.00 | 7.00 |
| H-Plane BW (°) | 42.00 | 39.00 | 46.00 | 20.00 | 22.00 | 30.00 | 16.00 | 19.00 | 20.00 | 15.00 | 15.00 |
| + H-Plane BW (°) | 22.00 | 16.00 | 21.00 | 10.00 | 10.00 | 17.00 | 9.00 | 12.00 | 13.00 | 6.00 | 7.00 |
| - H-Plane BW (°) | 20.00 | 23.00 | 25.00 | 10.00 | 12.00 | 13.00 | 7.00 | 7.00 | 7.00 | 9.00 | 8.00 |



NOTES:

- ① CONNECTOR I-PEX Gold Plated
- ② CABLE 1.13CABLE Black

本產品需符合 ✓ RoHS SONY00259 其它
 ※禁止使用本公司所禁用之有毒物質

| | | | |
|-----|---------|-----|------------|
| | | | |
| | | | |
| | | 24 | |
| AO | NEW DWG | 李錦鋒 | 2008.07.18 |
| REV | ECN.NO: | BY | DATE |

| -TOLERANCES- | |
|----------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED | |
| X.X ±0.30 | X.X° ±3° |
| X.XX ±0.20 | X.XX° ±1° |
| X.XXX ±0.10 | X.XXX° ±0.5° |

| | | | |
|-----------|---|----------------|------|
| | 利德五金塑膠(深圳)有限公司 LITE METALS & PLASTIC (SHEN ZHEN) CO.,LTD. | | |
| | | TITLE: CABLE系列 | |
| APPD: | DWG NO: BAR-CAB-065-006 | | |
| CHECK: | DATE | SCALE | UNIT |
| DRAW: 李錦鋒 | 2008.07.18 | FREE | mm |
| | | | PAGE |
| | | | 1 |

106±3

1.5±0.25

2.5±0.25

2.0±0.25

①

②

NOTES:

- ① CONNECTOR I-PEX Gold Plated
- ② CABLE 1.13CABLE Gray

客戶料號：120700007500J

本產品需符合 RoHS SONY00259 其它
 ※禁止使用本公司所禁用之有毒物質

| | | | |
|-----|---------|-----|------------|
| | | | |
| | | 25 | |
| AO | NEW DWG | 李錦鋒 | 2008.07.30 |
| REV | ECN.NO: | BY | DATE |

| -TOLERANCES- | |
|----------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED | |
| X.X ±0.30 | X.X° ±3° |
| X.XX ±0.20 | X.XX° ±1° |
| X.XXX ±0.10 | X.XXX° ±0.5° |

| | | | | | |
|--|--|-------------------------|-------|------|------|
| LITE 利德五金塑膠(深圳)有限公司 LITE METALS & PLASTIC (SHEN ZHEN) CO.,LTD. | | TITLE: CABLE系列 | | | |
| APPD: | | DWG NO: BAR-CAB-065-005 | | | |
| CHECK: | | DATE | SCALE | UNIT | PAGE |
| DRAW: 李錦鋒 | | 2008.07.30 | FREE | mm | 1 |

TECHNICAL DATA

Material/Finish:

| Name | Material | Finish |
|-----------------|-----------------|-------------|
| I-PEX | Phosphor bronze | Gold Plated |
| 1.13 Cable Gray | | None |
| | | |

Electrical:

| | |
|-------------------|--------|
| Frequency Range | 0~6GHz |
| Nominal Impedance | 50Ω |
| VSWR | 2.0 |
| | |

Physical Properties:

| | |
|-----------------------|-----------------------|
| Cable | Φ1.13mm Coaxial Cable |
| Operating Temperature | -20 ~ +65 |
| Storage Temperature | -30 ~ +75 |
| Connector | I-PEX |

SPECIFICATION FOR APPROVAL

DOCUMENT: A3132TS001

STYLE : COAXIAL CABLE
105°C 30V

SIZE: 32AWG×1C
BRAID : TS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD.

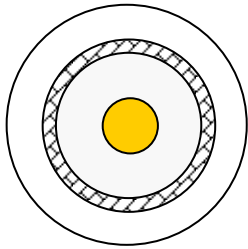
OFFICE : 72WU KONG 6TH ROAD,
WU KU IND. DISTRICT
TAIPEI HSIEN,TAIWAN

FACTORY : 17 PEI YUAN ROAD,
CHUNG-LI IND. PARK
TAIWAN, R.O.C.

TEL : (02)22988033
FAX : (02)22988031-2

TEL : (03)4527777
FAX : (03)4517214

 **WONDERFUL HI-TECH CO., LTD.**
SPECIFICATION

| | | | |
|------------|---|---------------------------------|---------------------|
| STYLE | 105°C 30V UL 1979 | DOCUMENT NO : A3132TS001 | |
| SIZE | 32AWG | ESTABLISHED DATE: 2005/05/11 | |
| STANDARD : | | | |
| Conductor | Size | AWG | 32 |
| | Material | ---- | Silver Cover Copper |
| | Conductors No. | ---- | 7 |
| | Conductors Size | mm | 0.080 |
| | O.D. | mm | 0.240 |
| Insulation | Average Thickness | mm | 0.22 |
| | Diameter | mm | 0.68 ± 0.02 |
| | Material | ---- | FEP |
| | Color | ---- | Clear |
| Braid | Material | ---- | Tinned Copper |
| | Construction | mm | 16 / 4 / 0.050 |
| | Coverage | % | 90 |
| Jacket | Average Thickness | mm | 0.13 |
| | Diameter | mm | 1.13 ±0.05 |
| | Material | ---- | FEP |
| | Color | ---- | According to custom |
| Marking | Non | | |
| Drawing |  | | |

AK001/210X297/1.0

PAGE : 1

EDITION : 1.1

MAKER : C.Y.CHEN

CONFIRM :S.N.WONG

APPROVAL : W.J.WANG



WONDERFUL HI-TECH CO., LTD.

SPECIFICATION

| Electrical & Physical Properties | | | | | | |
|----------------------------------|---------------|-----------------------|---|--------|--------|---------|
| Item | | 32AWG | | | | |
| Rating Temp Voltage | | 105°C 30V | | | | |
| Conductor Resistance | | 545 OHM/KM/20°C MAX. | | | | |
| Insulation Resistance | | 1000 MEGA OHM/KM MIN. | | | | |
| Dielectric Strength | | AC 500 V/Minute | | | | |
| Spark Test | | 2.5 KV | | | | |
| Insulation | Unaged | Tensile Strength | 2500 PSI MIN.(1.76 Kg / m m ²) | | | |
| | | Elongation | 200% MIN. | | | |
| | Aged | Tensile Strength | UNAGED MIN. 75%(168HRS×232°C) | | | |
| | | Elongation | UNAGED MIN. 75%(168HRS×232°C) | | | |
| Jacket | Unaged | Tensile Strength | 2500 PSI MIN.(1.76 Kg / m m ²) | | | |
| | | Elongation | 200% MIN. | | | |
| | Aged | Tensile Strength | UNAGED MIN.75%(168HRS×232°C) | | | |
| | | Elongation | UNAGED MIN.75%(168HRS×232°C) | | | |
| Nom. Impedance | | 50 ± 3 Ohms | | | | |
| Nom. Capacitance | | 96 ± 3 pF/m | | | | |
| Nom. Vel. of Prop. | | 69% | | | | |
| VSWR Test (0 – 6 GHZ) | | Less 1.3 | | | | |
| Flame Test | | VW-1 OK | | | | |
| Attenuation (dB/1m) | 2.0GHZ | | 2.4GHZ | 2.5GHZ | 5.0GHZ | 6.0 GHZ |
| | 2.80 | | 3.10 | 3.15 | 4.85 | 5.20 |

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APPROVAL : W.J.WANG