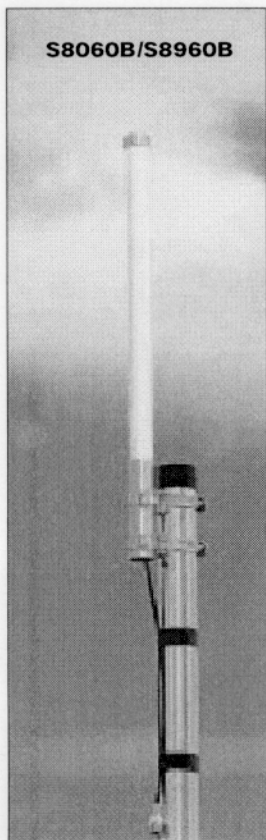
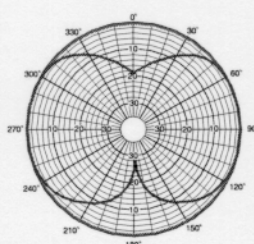


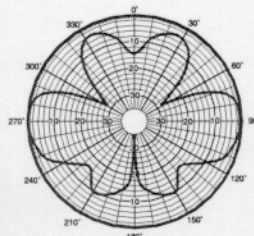
S8060B/S8960B



S8060B/S8960B

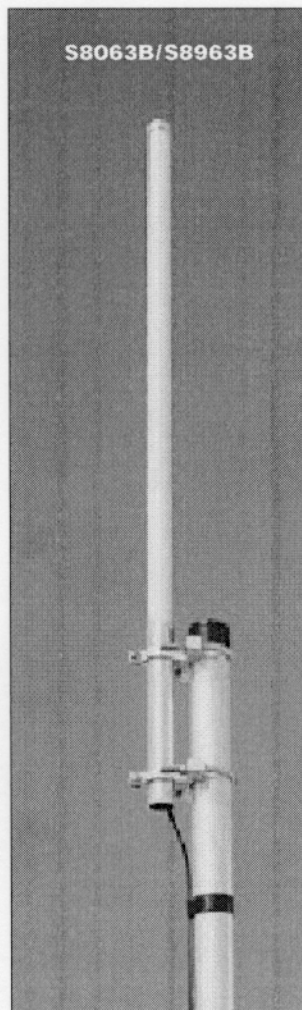


— H-Plane  
— E-Plane



S8063B/S8963B

S8063B/S8963B



These two pages illustrate three styles of antennas. Their construction is very similar but they vary in gain. In general, your best choice is the antenna with the least gain that will do the job well. This keeps the cost at a minimum. These antennas are all housed in tough fiberglass enclosures. They are built on very repeatable fiberglass substrates. The larger two models feature stainless steel U-bolts as mounting fixtures while the small 0 dB gain antennas use economical stainless steel clamps. The pigtail mounted connectors allow for absolute waterproofing of the connection between the antenna and the transmission line by the installer. With this broad selection, the right antenna for your applications is within easy reach.

800/900 MHz OMNI SELECTOR CHART

| Model  | Freq.<br>MHz | Gain<br>dBd | VSWR<br>(Nominal) | Bandwidth<br>1.5:1 MHz | -3dB bandwidth<br>E-Plane* | Type<br>(Female) | Height<br>In (cm) | Weight<br>lb (kg) | W/sur Area<br>ft <sup>2</sup> (m <sup>2</sup> ) | W/survival<br>mph (kph) | Pigtail<br>in (cm) |
|--------|--------------|-------------|-------------------|------------------------|----------------------------|------------------|-------------------|-------------------|-------------------------------------------------|-------------------------|--------------------|
| S8060B | 806-868      | 0           | 1.5:1             | 62                     | 75                         | N                | 17-1/2 (44.5)     | 0.56 (0.25)       | 0.083 (0.009)                                   | 125 (200)               | 17                 |
| S8063B | 806-868      | 3           | 1.5:1             | 62                     | 45                         | N                | 30-3/4 (78)       | 1.19 (0.53)       | 0.176 (0.016)                                   | 125 (200)               | 23                 |
| S8064B | 806-868      | 4           | 1.5:1             | 62                     | 25                         | N                | 42-1/8 (107)      | 1.56 (0.70)       | 0.22 (0.02)                                     | 125 (200)               | 23                 |
| S8240B | 824-896      | 0           | 1.5:1             | 62                     | 75                         | N                | 17-1/2 (44.5)     | 0.56 (0.25)       | 0.083 (0.009)                                   | 125 (200)               | 17                 |
| S8243B | 824-896      | 3           | 1.5:1             | 62                     | 45                         | N                | 30-3/4 (78)       | 1.19 (0.53)       | 0.176 (0.016)                                   | 125 (200)               | 23                 |
| S8244B | 824-896      | 4           | 1.5:1             | 62                     | 25                         | N                | 42-1/8 (107)      | 1.56 (0.70)       | 0.22 (0.02)                                     | 125 (200)               | 23                 |
| S8800B | 880-960      | 0           | 1.5:1             | 62                     | 75                         | N                | 17-1/2 (44.5)     | 0.56 (0.25)       | 0.083 (0.009)                                   | 125 (200)               | 17                 |
| S8803B | 880-960      | 3           | 1.5:1             | 62                     | 45                         | N                | 30-3/4 (78)       | 1.19 (0.53)       | 0.176 (0.016)                                   | 125 (200)               | 23                 |
| S8804B | 880-960      | 4           | 1.5:1             | 62                     | 25                         | N                | 42-1/8 (107)      | 1.56 (0.70)       | 0.22 (0.02)                                     | 125 (200)               | 23                 |
| S8960B | 896-960      | 0           | 1.5:1             | 64                     | 75                         | N                | 17-1/2 (44.5)     | 0.56 (0.25)       | 0.083 (0.009)                                   | 125 (200)               | 17                 |
| S8963B | 896-960      | 3           | 1.5:1             | 64                     | 45                         | N                | 30-3/4 (78)       | 1.19 (0.53)       | 0.176 (0.016)                                   | 125 (200)               | 23                 |
| S8964B | 896-960      | 4           | 1.5:1             | 64                     | 25                         | N                | 42-1/8 (107)      | 1.56 (0.70)       | 0.22 (0.02)                                     | 125 (200)               | 23                 |

Common Specifications: Power handling - 150 Watts; Element material - plated copper laminate; Enclosure material - fiberglass  
Mounting style - tube end; Maximum mast diameter - 2 in (5.1 cm)

# NOTES:

1. SPECIFICATIONS: ANTENNA, VERTICAL, HALF WAVE, POLAR, 915 MHz

- 1.0 ELECTRICAL:
  - 1.1 ANTENNA TYPE: HALF WAVE DIPOLE WHIP
  - 1.2 POLARIZATION: VERTICAL
  - 1.3 EFFICIENCY: 75% MINIMUM
  - 1.4 IMPEDANCE: 50 Ohms NOMINAL
  - 1.5 BANDWIDTH FOR <2.25:1 VSWR: 32 MHz
  - 1.6 CENTER FREQUENCY: 915 MHz
  - 1.7 TEST CONDITIONS: 6" X 6" ALUM. PLATE GROUND PLANE
- 2.0 MECHANICAL:
  - 2.1 CONNECTOR TYPE: POLARIZED TNC FEMALE
  - 2.2 COVERING/COATINGS: BLACK POLYURETHANE OR EQUIVALENT
  - 2.3 OVERALL LENGTH: 9.0" MAXIMUM

2. ONLY THE ITEM(S) DESCRIBED ON THIS DRAWING WHEN PROCURED FROM THE VENDOR(S) LISTED HEREON IS APPROVED BY LXE FOR USE IN THE APPLICATION(S) SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND APPROVAL BY THE LXE ENGINEER IN CHARGE OF THIS PROJECT.

3. IDENTIFICATION OF THE APPROVED SOURCE(S) HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S) DESCRIBED ON THIS DRAWING.

## APPROVED SOURCE(S) OF SUPPLY

| SUGGESTED SOURCE(S)                                                  | VENDOR PART # |
|----------------------------------------------------------------------|---------------|
| CENTURION INTERNATIONAL INC.<br>P.O. BOX 82846<br>LINCOLN, NB, 68501 | CAF28526      |
| HYTENNAS INC.<br>13250 95th STREET<br>NORTH<br>LARGO, FL, 34643      | 10556         |

## SOURCE CONTROL DRAWING

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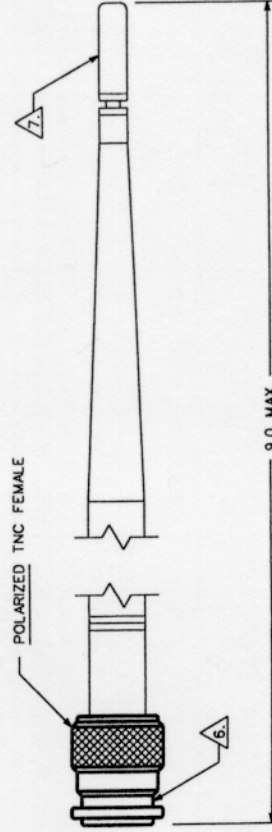
### REVIEWS

| REV | DESCRIPTION              | APPROVED    | DATE    |
|-----|--------------------------|-------------|---------|
| A   | ENGINEERING RELEASE      | B. ANDERSON | 4-23-92 |
| B   | INCOMP. CND1 JMB 6-29-92 | B. ANDERSON | 7-15-92 |
| C   | INCOMP. CND2 JMB 6-3-96  |             |         |

5. SEE LXE DRAWING \* 148764 FOR MORE DETAIL ON INTERFACE DIMENSIONS AND INTERNAL FEATURES OF A POLARIZED TNC FEMALE CONNECTOR.

6. DARK BLUE COLOR BAND TO IDENTIFY ANTENNA WITH A POLARIZED TNC CONNECTOR.

7. ANTENNA WILL BE SHIPPED WITH BLUE CAP TO INDICATE POLARIZED TNC CONNECTOR.



|                                                                                                                                                    |                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>LXE</b> Inc.<br>125 Technology Parkway<br>Norcross, GA 30092-2500 USA                                                                           |                                                                                                                                   |
| ALL DIMENSIONS ARE IN UNLESS<br>INDICATED OTHERWISE SPECIFIED<br>3 PLACES DECIMALS UNLESS<br>INDICATED OTHERWISE SPECIFIED<br>DO NOT SCALE DRAWING | DATE: 8-22-91<br>APPROVED: JMB<br>DESIGNED: B. ANDERSON<br>DRAWN: B. ANDERSON<br>CHECKED: J. WILKINSON<br>MATERIAL: FRESH         |
| ANTENNA, VERTICAL, HALF WAVE,<br>POLAR, 915 MHz                                                                                                    | DATE: 4-23-92<br>APPROVED: B. ANDERSON<br>DESIGNED: B. ANDERSON<br>DRAWN: B. ANDERSON<br>CHECKED: J. WILKINSON<br>MATERIAL: FRESH |
| SIZE: MICROSTATION<br>SCALE: NONE<br>PART NO: 148694-0001<br>SHEET 1 OF 1                                                                          | REV: 148694<br>C                                                                                                                  |

1. SPECIFICATIONS: ANTENNA, HALF WAVE, POLAR, RIGHT ANGLE

- |                        |                                  |
|------------------------|----------------------------------|
| 1.0 ELECTRICAL:        |                                  |
| 1.1 ANTENNA TYPE       | HALF WAVE DIPOLE WHIP            |
| 1.2 POLARIZATION       | VERTICAL                         |
| 1.3 EFFICIENCY         | 75% MINIMUM                      |
| 1.4 IMPEDANCE          | 50 Ohms NOMINAL                  |
| 1.5 BANDWIDTH FOR VSWR | <2.25:1<br>32 MHz                |
| 1.6 CENTER FREQUENCY   | 915 MHz                          |
| 1.7 TEST CONDITIONS    | GROUND PLANE TO BE PROVIDED      |
| 2.0 MECHANICAL:        |                                  |
| 2.1 CONNECTOR TYPE     | POLARIZED TNC FEMALE             |
| 2.2 COVERING/COATINGS  | BLACK POLYURETHANE OR EQUIVALENT |
| 2.3 OVERALL LENGTH     | 9.0" MAXIMUM                     |

2. ONLY THE ITEM(S) DESCRIBED ON THIS DRAWING WHEN PROCURED FROM THE VENDOR(S) LISTED HEREON IS APPROVED BY LXE FOR USE IN THE APPLICATION(S) SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND APPROVAL BY THE LXE ENGINEER IN CHARGE OF THIS PROJECT.

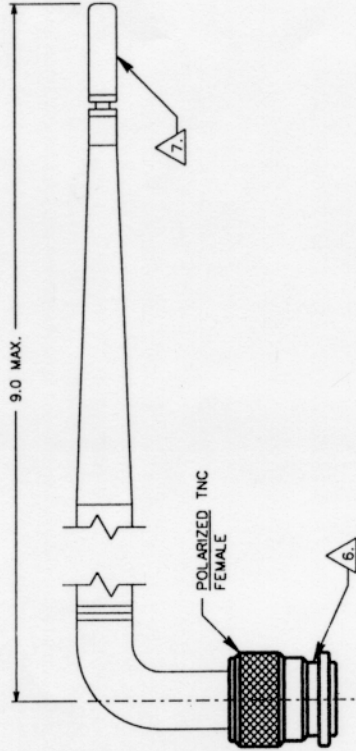
3. IDENTIFICATION OF THE APPROVED SOURCE(S) HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S) DESCRIBED ON THIS DRAWING.

| SUGGESTED SOURCE(S)                                                      | VENDOR PART * |
|--------------------------------------------------------------------------|---------------|
| CENTURION<br>INTERNATIONAL, INC.<br>P.O. BOX 82846<br>LINCOLN, NE. 68501 | CAF28525      |
| HYTENNAS INC.<br>13250 95TH ST. N.<br>LARGO, FL. 34663                   | 10542         |

5. SEE LXE DRAWING • 148764 FOR MORE DETAIL ON INTERFACE DIMENSIONS AND INTERNAL FEATURES OF A POLARIZED TNC FEMALE CONNECTOR.

6. DARK BLUE COLOR BAND TO IDENTIFY ANTENNA WITH A POLARIZED TNC CONNECTOR ON CENTURION ANTENNA ONLY.

7. BLUE END CAP TO IDENTIFY ANTENNA WITH A POLARIZED TNC CONNECTOR ON HYTENNAS ANTENNA ONLY.



|          |             |                                                                                                                                                                                                   |                                           |
|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| APPROVED | DATE        |  <b>LXE</b><br>A Division of<br>LSI Technology, Inc.<br>40000 Technology Parkway<br>Fremont, CA 94538-2500 USA |                                           |
| DR BY    | JER-KOHM    |                                                                                                                                                                                                   |                                           |
| PROJ MGR | B ANDERSON  | +23-R2                                                                                                                                                                                            |                                           |
| PROJ MGR | W ANDERSON  | +23-R2                                                                                                                                                                                            |                                           |
| PROD MGR | C CHOCALLEN | +23-R2                                                                                                                                                                                            |                                           |
| ENG      | J ANDERSON  | +23-R2                                                                                                                                                                                            |                                           |
| SEC      | W ANDERSON  | +23-R2                                                                                                                                                                                            |                                           |
| DATE     | JANUARY     |                                                                                                                                                                                                   |                                           |
|          |             | SHEET NO. 148695<br>SHEET 1 OF 1                                                                                                                                                                  | ANTENNA, HALF WAVE,<br>POLAR, RIGHT ANGLE |

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