

COMPONENT SPECIFICATION

APPROVED SUPPLIERS

Manufacturer	Address/Telephone	805-615	Manufacturer's Part No.
Centurion International, Inc.	P.O. Box 82846 Lincoln, NE 68501 (402) 467-4491	-001	CAF94490
		-101	CAF94720

- 1.0 **Scope:** This specification describes the requirements for antenna assemblies designed for use in Model CV60 applications which includes two internal antennas for 802.11b/g or dual band a/b/g, one internal antenna for PicoLink.
- 2.0 **Quality Assurance:** Intermec Receiving Inspection reserves the right to use AQL sampling techniques when inspecting a lot.
- 3.0 **Packaging:** All antennas will be packaged in containers capable of protecting them from damage in common carrier shipping and handling.
- 4.0 **Markings:** Each container will be labeled or otherwise marked with the manufacturer's name or trademark, and the catalog designation. Major shipping cartons will be marked with the Intermec part number.

REVISION HISTORY

Rev.	File No.	Description of Change	Date	Approved
1	- - -	Prerelease	6/16/03	T S
A	C3880	Release specification, Revise ¶1.0, ¶7.3 Add manufacturer's name & P/N, ¶7.4 Was Poron 4701-40-20125-04 3.0mm thick, ¶8.0 Add drawing, ¶8.1 Add drawing & mat'l	8/06/03	J S
B	C3940	Insert ¶7.5 & ¶7.6, ¶8.0 Delete top view & add gnd wire assemblies & assoc dims	10/13/03	J S
C	C4000	¶8.0 Add grounding thru holes, add graphics, & add notes	1/16/04	J S
D		Add -101		

[illegible]

5.0 Antenna Specifications:

5.1 Nominal Frequency:

- 001 2.45 GHz
- 101 2.45 GHz and 5.5 GHz

5.2 Frequency Range:

- 001 2400 MHz to 2485 MHz
- 101 2400 to 2495 MHz and 5150 to 5825 MHz

5.3 Peak Antenna Gain: +1 dBi nominal

5.4 VSWR: 2.0:1 max over frequency range when installed

5.5 Power: Not specified

5.6 Polarization: -001 - Picolink and primary 802.11b/g antennas -linear vertical, 802.11b/g diversity antenna - linear horizontal -101 - Picolink - linear vertical, primary 802.11a/b/g - antenna linear, 802.11a/b/g diversity antenna - linear horizontal

5.7 Nominal Impedance: 50 Ohms

6.0 Mechanical Ratings:

6.1 Antenna Weight: Not specified

6.2 Ambient Operating Temperature: Not specified

6.3 Antenna Interconnection Means: Hirose U.FL or equivalent, MMCX, and reverse polarized SMA

7.0 Materials:

7.1 Radiator Element:

- 001 : 18 gauge wire, and PCB embedded
- 101 : D-Puck element, and PCB embedded

7.2 Coaxial Interconnection Means: Hirose U.FL receptacle or equivalent (for 802.11 antennas), reverse polarized SMA receptacle, and MMCX receptacle (for PicoLink antenna)

7.3 Reverse Polarized SMA Receptacle: Centurion P/N CAP34270 or equivalent

7.4 Reverse Polarized SMA Gasket Material: Poron™ urethane gasket material, 3.0 mm thick with adhesive coating on one side (see Paragraph 8.1)

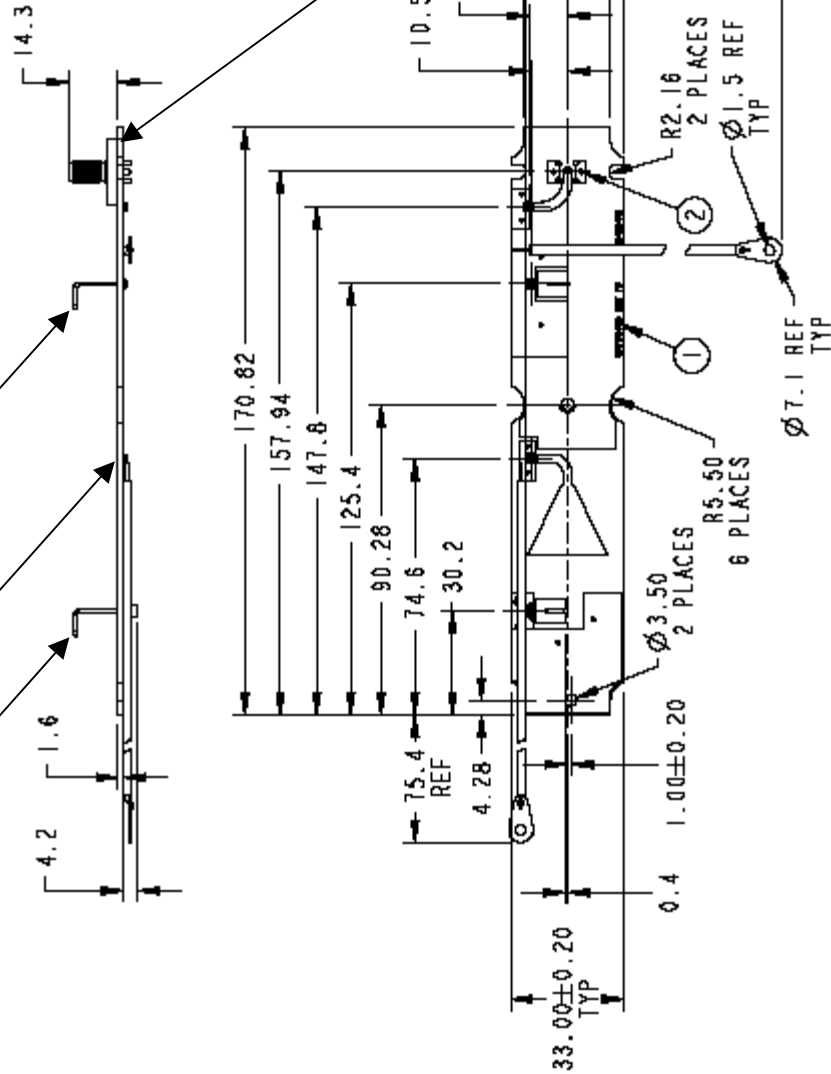
7.5 Ground Wires (2 ea.): Undefined insulated wire

7.6 Ring Terminals (2 ea.): Solder style, uninsulated, tin-lead plated brass terminals, 1.5 mm (ref.) diameter clearance hole size

8.0 Outline Drawing (mm): 2.4GHz Antenna Assembly, -001 Part

ANTENNA RADIATORS:

- 1 Picolink
- 2 802.11b/g Diversity
- 3 802.11b/g Primary



RP SMA Receptacle Gasket
(See Detail Paragraph 8.1)

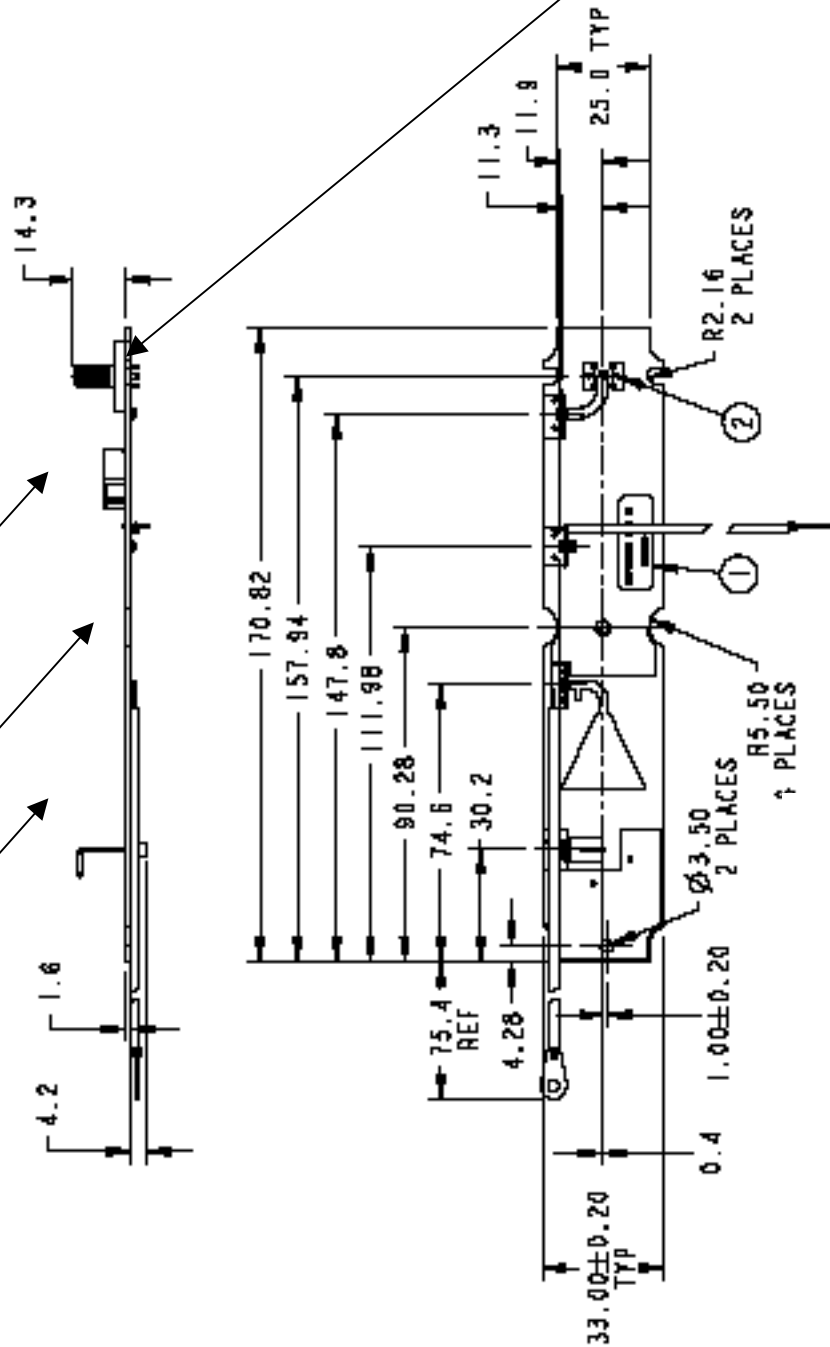
NOTES:

1. Manufacturer's P/N & rev. level, and Intermec P/N
2. Two through holes for grounding

8.1 Outline Drawing (mm): 2.4/5.5 GHz Antenna Assembly, -101 Part

ANTENNA RADIATORS:

1. Picolink
2. 802.11a/b/g Diversity
3. 802.11a/b/g Primary

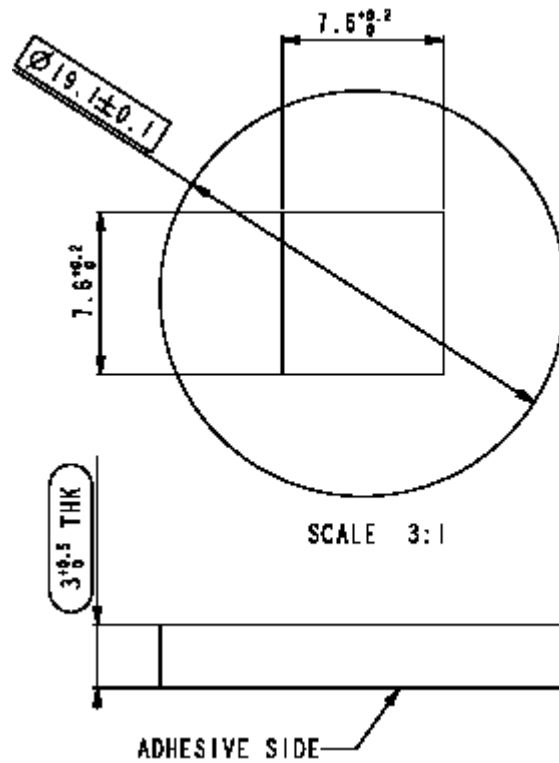


NOTES:

1. Manufacturer's P/N & rev. level, and Intermec P/N
2. Two through holes for grounding

RP SMA Receptacle Gasket
(See Detail Paragraph 8.1)

8.2 SMA Gasket Detail Drawing (mm):



Material:

Die-cut, flame retardant polyurethane, dark gray color,
Rogers Poron #4701-40-20125-04 or equivalent with 3M #9425PC
double coated polyester tape (one side)