

Code Ranger r/f Dipole Antenna Specifications

Part number: 101-316-01

T. Holzschuh 4/10/02

Type: Dipole

Center frequency: 2450MHz

Bandwidth: 2400MHz – 2500MHz

Power handling: 500mw continuous

Temperature range: -10°C to 50°C operating

Input impedance: 50ohms

VSWR: 1.7:1 max across entire bandwidth

***Effective gain (max):** <2.0 dBi (w/cable)

Input connector: MMCX style

Coax cable length/type: 95.25mm +/- 5%, RG-178

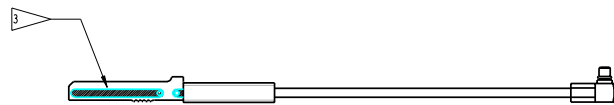
Approximate dimensions with coax cable: 108mm x 43mm

Weight: < 5grams

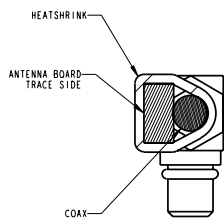
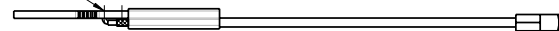
* Typical dipole antenna gain compared to a theoretical isotropic reference antenna = 2.15dBi – cable losses = 2.0dBi or less.

00-91E-101

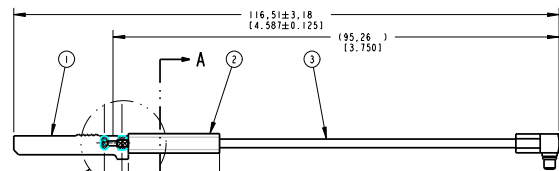
REVISIONS				
REV.	DESCRIPTION	ZONE	ECO	DESIGNER DATE
A	INITIAL RELEASE	--	ECO-554	MDW 04-17-01
MUST RUN WHERE USED AND UPDATE MASTER DOCUMENT WHEN THIS DRAWING IS REVISED				



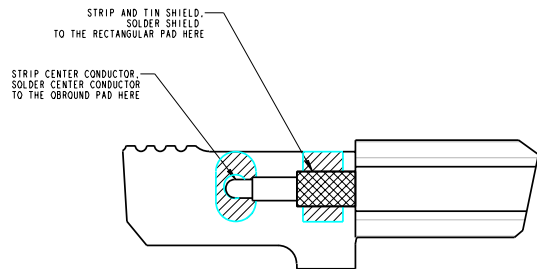
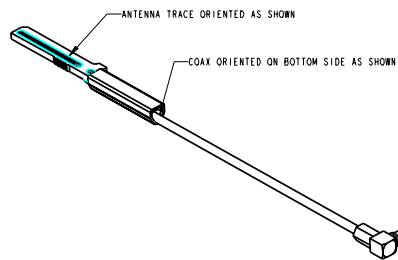
TRIM LEAD FLUSH TO 0.50 MAX TO 0.0201



SECTION A-A
SCALE 8/1



HEATSHRINK TO STOP ON THE BOARD HERE



DETAIL SA
SCALE 10/1

- NOTES: UNLESS OTHERWISE SPECIFIED
1. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M 1994
 2. FIRST ARTICLE IS REQUIRED FOR APPROVAL. VENDOR IS RESPONSIBLE TO SUBMIT SAMPLES OF ANY CHANGES TO THIS ASSEMBLY OR ITS COMPONENTS FOR APPROVAL PRIOR TO SHIPMENT.
 3. ACCEPTABILITY TO BE BASED ON IPC-A-610C CLASS 2.

SEE SEPARATE EXCEL BOM 101-331-00

DRAWING RECORDS		
DESIGNATIONS	DATE	INITIALS
DESIGNED BY	16-Apr-02	MDW
DRAWN BY	16-Apr-02	MDW

MATERIAL: SEE NOTES

UNLESS OTHERWISE SPECIFIED
ALL DIMS TO BE: MM (INCH)

METRIC
FIRST DIMS

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Cognitive
691 CORPORATE CIRCLE GOLDEN, CO 80401-5626
WEB SITE: www.cognitive.com
Phone: 303-273-1400 Fax: 303-277-9037

TITLE
**ASSEMBLY, BREAK-OFF
ANTENNA, RF**

SIZE SCALE DWG NO 101-316-00 REV. A

Proj/ENGINEER ASSEM FILE SHEET 1 OF 1

OBJECT: 101-316-00_ANT-ASSY-RF DATE: 18-Apr-02 11:07:00

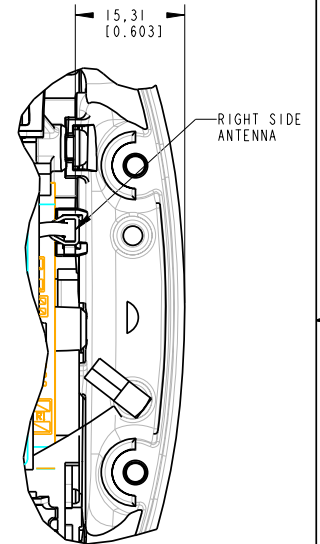
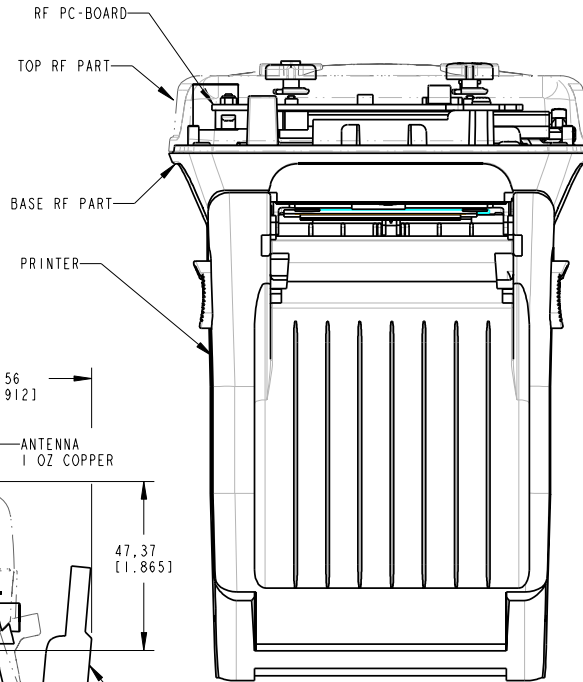
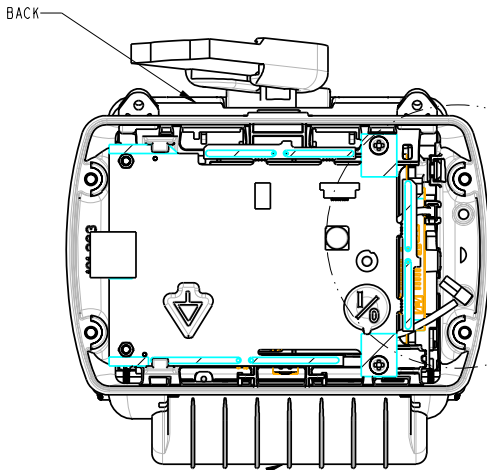
NAME: WOODBURY

SAR-MECHANICAL

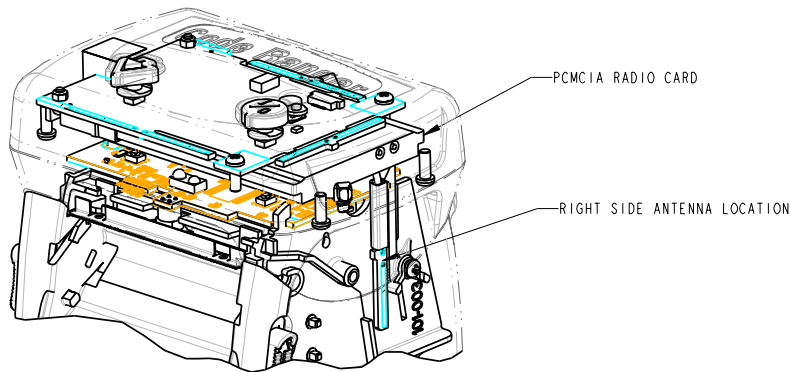
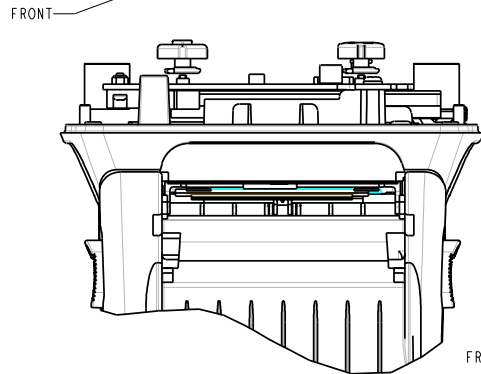
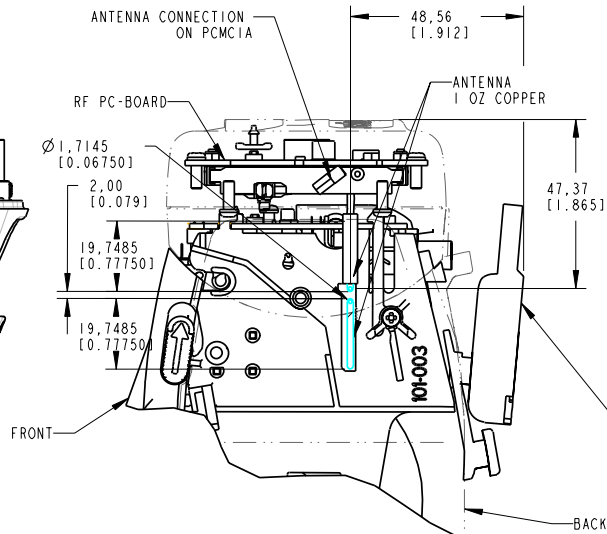
REVISIONS

REV.	DESCRIPTION	ZONE	ECO	DESIGNER	DATE
01	INITIAL SUBMITTAL	--	--	MDW	12-10-01
02	UPDATE TO LATEST DESIGN	--	--	MDW	4-30-02

SEE DETAIL ANTENNA



DETAIL ANTENNA SCALE 2/1



DRAWING RECORDS		
DESIGNATIONS	DATE	INITIALS
DESIGNED BY	12-10-01	MDW
DRAWN BY	12-10-01	MDW
MATERIAL: SEE NOTES		

UNLESS OTHERWISE SPECIFIED ALL DIMS TO BE: MM (INCH)

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TITLE
**SYMBOL ANTENNA
 REGULATORY, SIDE ANTENNA**

SIZE C	SCALE 1/1	DWG NO SAR-MECHANICAL	REV. 02
Pro/ENGINEER ASSEM FILE			SHEET 1 OF 1

NAME: WOODBURY OBJECT: 101-PCMCIA-SAR DATE: 30-Apr-02 11:34:23