

REV.	REF.	DESCRIPTION	INPUT BY	DATE
A	2782	RELEASE	G. Clausen	12/13/02
B	3040	Add new bands -002 to -005 and sec. 4.2	KAKracher	21 Apr 03
C		Chanded -003 to AMPS/PCS for IX100	KAKracher	15 May 03



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APPROVALS		ITRONIX CORPORATION S. 801 STEVENS AVE. P.O. BOX 0179 SPOKANE, WA 99210-0179
ORIGINATOR G. Clausen	DATE 12/13/02	PART DESCRIPTION: Nearson 2 Inch Antenna
ENGINEERING	DATE	
CHECKER	DATE	
MANUFACTURING MIKE STEINER	DATE 02-07-03	Drawing Number 47-0180-000
PURCHASING	DATE	PAGE 1 OF 3

1.0 PART DESCRIPTION:

Antenna with a straight SMA connection. Two inches long.

2.0 APPLICABLE DOCUMENTS AND REFERENCES:

2.1 MANUFACTURER'S SPECIFICATION:

<http://www.nearson.com/>

Pick: "Portable Rubber Duck" , "Modle 321" , "Tri Band" , "T321AM-GDP with SMA Plug"

2.2 QUALITY ENGINEERING DOCUMENT:

Parts must comply with Itronix Quality Document QE02-018, "Quality Assurance Expectations For Custom Suppliers"

3.0 MECHANICAL REQUIREMENTS:

3.1 DIMENSIONS: See Figure 1 in section 8.0

3.2 MATERIAL:

Connector: Brass with black chrome plating

Overmold: Polyurethane (black)

3.3 CONNECTOR: Straight SMA Plug

4.0 ELECTRICAL REQUIREMENTS:

4.1 FREQUENCY RANGE: See Table in section 8.0

4.2 VSWR: <3.0:1 ON THE EDGES OF THE BAND, THOUGH CENTER OF BAND SHOULD BE < 2.0:1

4.3 GAIN: -2 dBi at 880 – 960 Mhz 0 dBi at all other specified bands

4.4 POWER: 2 watt minimum

4.5 IMPEDANCE: 50Ω nominal

4.6 RADIATION: Omni

4.7 POLARIZATION: Vertical

4.8 WAVE: ¼ wave Helix

5.0 ENVIRONMENTAL REQUIREMENTS:

5.1 Operating Temperature: -20°C to +65°C

5.2 Storage Temperature: -30°C to +75°C.

6.0 MARKING REQUIREMENTS:

The bulk shipping container shall be marked with vendor name, part number and date/lot code. Color coding on each antenna shall match the table shown in section 8.0

7.0 PACKAGING REQUIREMENTS:

Packaging of components shall be such that no damage will occur to the component during shipment, mechanical or electrical. Refer to EIA STD RS-383-A. If packaged in a plastic bag, then bag is to be non-static.

8.0 Manufacturer's Part Number:

Itronix Part Number	Manufacturer's Part Number	Platform	Frequency Band	Color Code
47-0180-001	T321AM-GDP	--		Black
47-0180-002	T321AM-GDP-IX100	IX100	EU GPRS [880-960/1710-1880]	Orange
47-0180-003	T321AM-AMPS/PCS-IX100	IX100	US PCS [1850-1990]	Blue
47-0180-004	T321AM-GDP-IX110	IX110/FEX	EU GPRS [880-960/1710-1880]	Silver
47-0180-005	T321AM-PCS-IX110	IX110/FEX	US PCS [1850-1990]	Green

8.1 DRAWING:

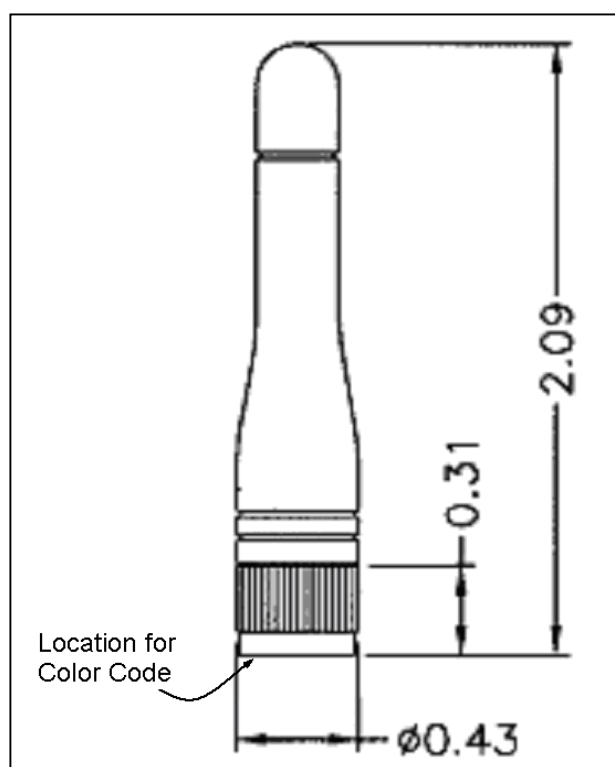


FIGURE 1
Dimensions in inches
(For reference only)