

Antenna Details:

Type	Manufacturer	Part Number	Gain
Patch	Centurion	CAF94131	1.5 dBi
Dipole	Radiall	R380.500.117	2 dBi
Dipole	Radiall/Larsen	R380.500.116	2 dBi

All the antennas meet the requirements of 15.203. The dipoles use a reverse polarity SMA. The patch is installed at the factory, integral to the host device, and is not user accessible.

MicroBlue

Internal Wireless Antenna

Part Number (P/N):

CAF94131

Features:

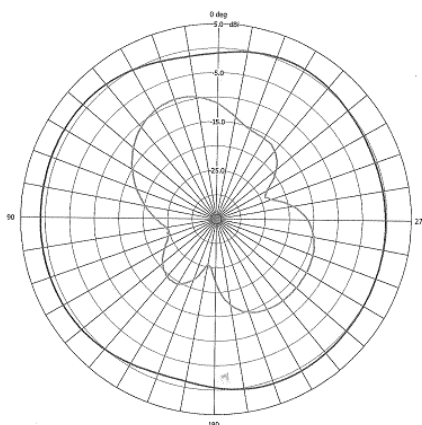
- Versatile and easy to use antenna for 2.4 to 2.5 GHz Bluetooth and IEEE 802.11 devices
- Designed for easy connection to radio cards
- Utilizes Centurion's patented PCB Microsphere technology
- Has a ground plane incorporated into the resonator structure, therefore no additional ground plane is required to radiate efficiently

Specifications:

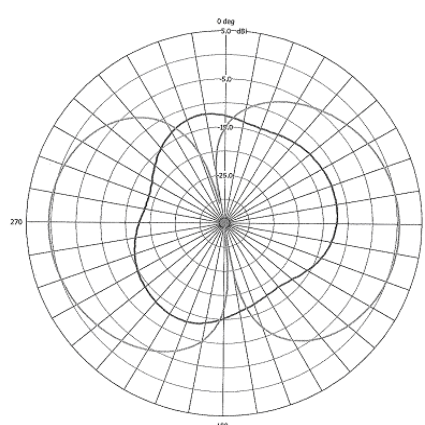
Frequency Range	2.4 – 2.5 GHz
Polarization	Linear
Peak Gain	1.5 dBi
Average Gain	>0 dBi
Nominal Impedance	50 ohms
VSWR (Min. Performance)	< 1.8:1 from 2.4 GHz to 2.5 GHz 2:1 VSWR Bandwidth > 600 MHz
Temperature Range	-40° to +85°C
Vibration	6G RMS (9.04g2/Hz) for 15 minutes each in vertical and horizontal. No appearance or functional axis.
Thermal Shock	Change after 4 repeated cycles of 1 hr. at +85°C and 1 hr. at -40°C. Transfer time is 5 min.
Size (inches)	.89" x 1.88" x .032" (w x l x t)
Standard Cable	RG-178 (MIL-C17) Coaxial Cable x 8" Long
Standard Connector	Right-Angle MMCX Plug



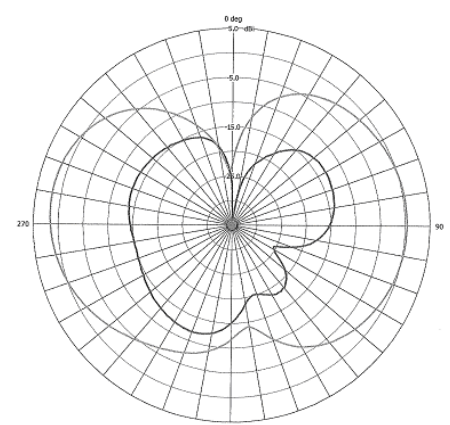
MicroBlue 2.4 shown here with standard 8 inches of RG-178 coax and right angle MMCX connector



**Azimuth Plane
2450 MHz**



**Elevation Plane, Phi = 0
2450 MHz**



**Elevation Plane, Phi = 90
2450 MHz**

Specifications subject to change without notice

MicroBlue – 10/28/02



RADIALL®
COAXIAL CONNECTORS

TECHNICAL DATA

R380.500.117

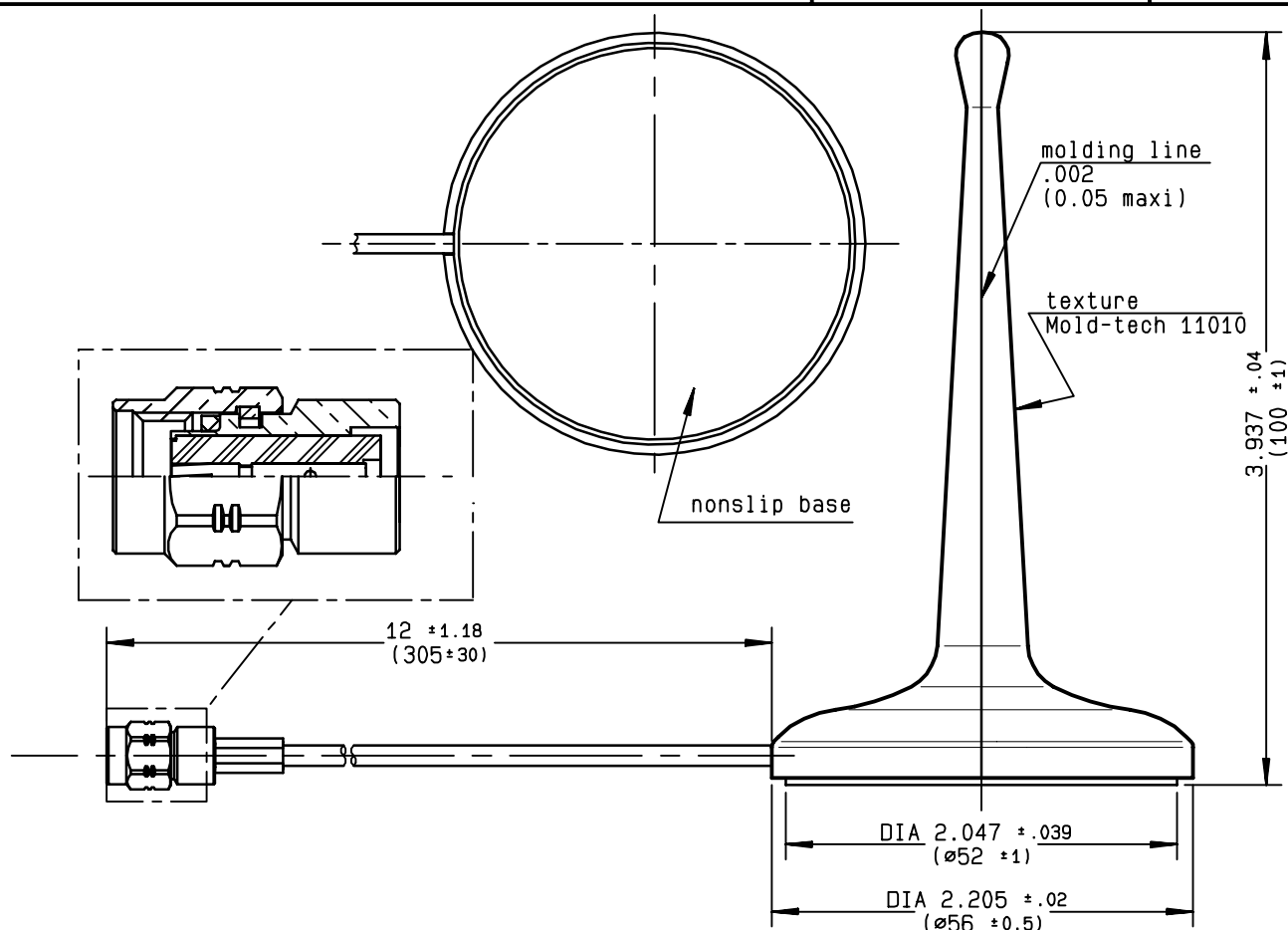
Issue : 0039

Page

Series : ANTENNA

1 / 1

DIPOLE PIGTAIL 2450 MHz



ELECTRICAL SPECIFICATIONS

Operating frequency range	:2400-2500 MHz
VSWR	:2:1
Impedance	:50 Ω
Polarization	:Vertical (antenna axis)
Vertical 3 dB beamwidth	:80°
Gain	:2 dBi
Gain including cable	:1 dBi
Radiation pattern	:Omni directionnal in the Horizontal plane
Power input	:2 Watt

MECHANICAL SPECIFICATIONS

Weight	:50,2g
Connector	:polarized SMA PLUG
Color	:Black(RAL 9004)
radome material	:TPE(thermo.poly.elast.)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	:-30 °C to +85 °C
Humidity	:Up to 100% @38 °C

COSMETIC PARAMETERS

- No scratches
- No mold release
- No sink marks
- No bright spots

Initiated on 25/04/00

Approval by RIGOLAND

The information given here is subject to change without notice. Design changes may be in order to improve the product.



CONSTANTIN B

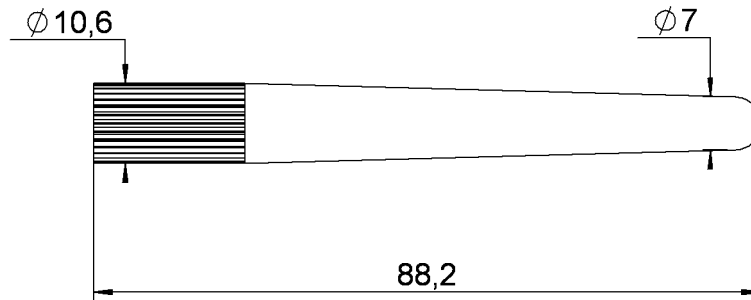
EPA 00-019

STRAIGHT DIPOLE SMA 2.4GHZ
OMNIDIRECTIONAL ANTENNA

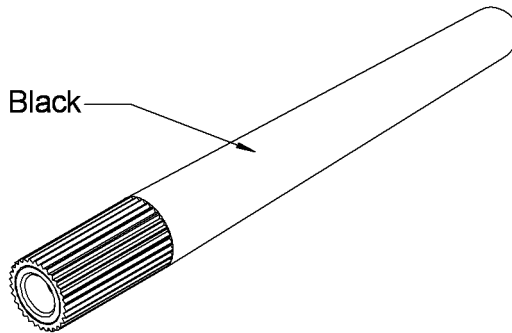
R380.500.116

Series : ANTENNE

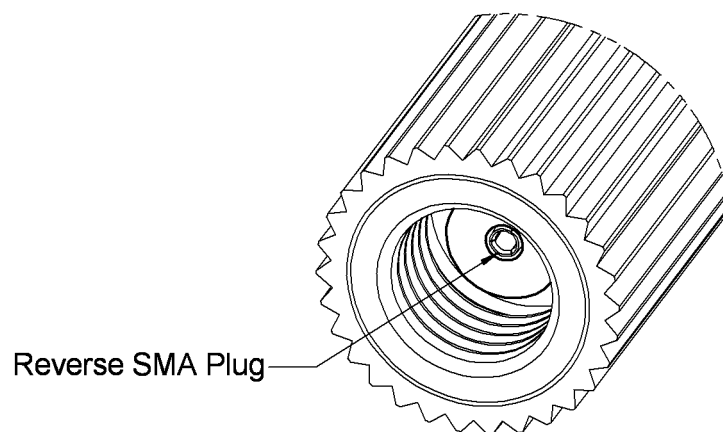
Scale 1:1



PVC Black



Scale 4:1



All dimensions are in mm

**Issue : 0241 A**

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIAL / LARSEN
antenna technologies

**STRAIGHT DIPOLE SMA 2.4GHZ
OMNIDIRECTIONAL ANTENNA****R380.500.116**

Series : ANTENNE

ELECTRICAL CHARACTERISTICS

Frequency :	2.4-2.5 GHz
Nominal Impedance :	50 Ω
VSWR :	2 Max
Gain (Overall gain) :	2 dBi
Radiation Pattern -3 dB beamwidth	Omni-directional in the horizontal plane
Vertical Plane :	80 °
Polarization :	VERTICAL
Connector type :	Reverse SMA Plug

MECHANICAL CHARACTERISTICS

Plastic radome :	PVC
Color :	BLACK RAL 9004
Weight :	9 g
Overall length :	88 mm

ENVIRONMENTAL CHARACTERISTICS

Operating temperature :	-40/+70 ° C
Humidity :	Up to 100% @ 38° C

Issue : 0241 A

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIALL/LARSEN
antenna technologies