100-500MHz wide-band dipole antenna SAW-500

Features

- Extremely wide operation bandwidth
- Small physical dimensions
- Dipole-like slim construction
- Vertical/horizontal polarization
- Electronically scanned antenna arrays
- Transmit and receive operation
- Integrated preamplifier option

Product description

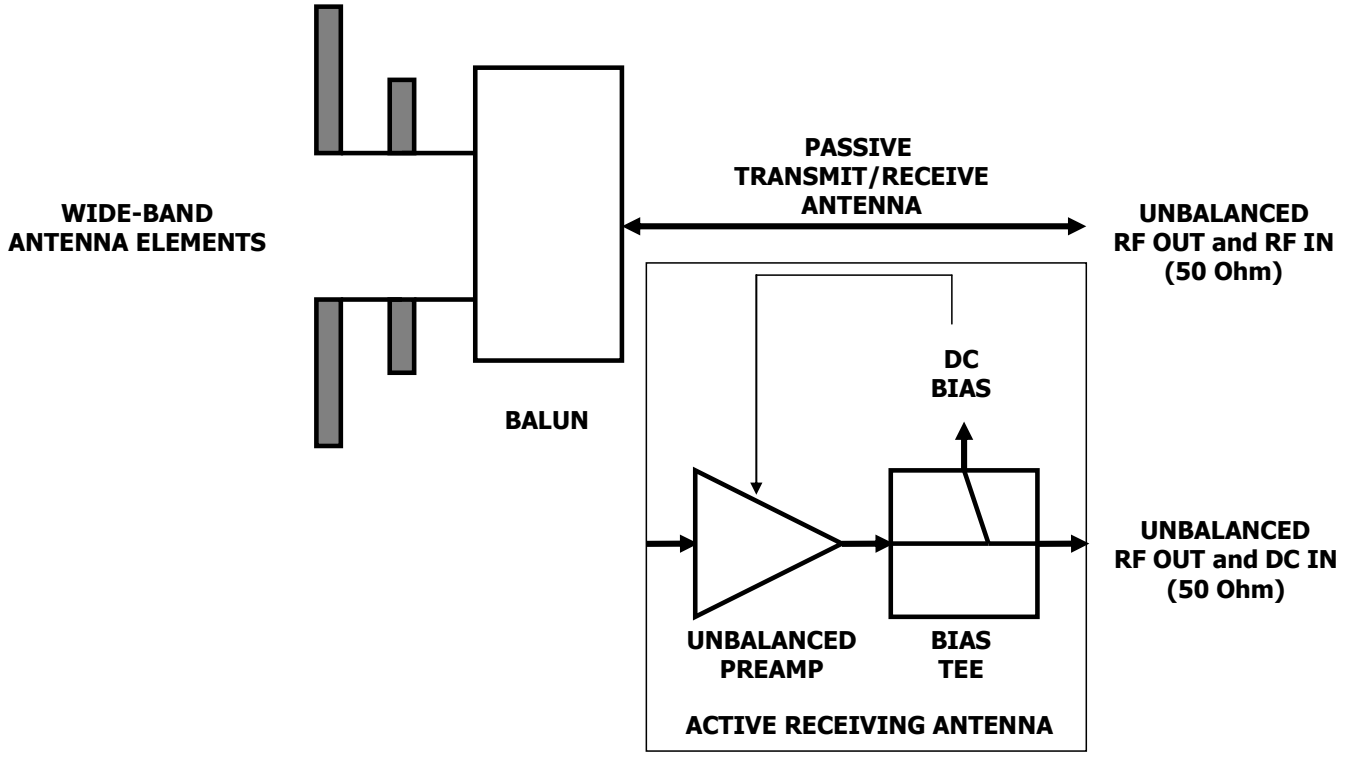
Receiving antenna for wideband reception of radio signals in VHF/UHF frequency range. The antenna based on a wideband symmetrical sub-resonant element and passive symmetric to asymmetric transformer (balun transformer). The antenna can be used in passive mode feeding trough the built in balun transformer. In active mode a low-noise, high-dynamic range receiver preamplifier can be built in to the antenna. Mechanical construction allows mounting it on a mast or tripod using standard-size components.

Typical applications

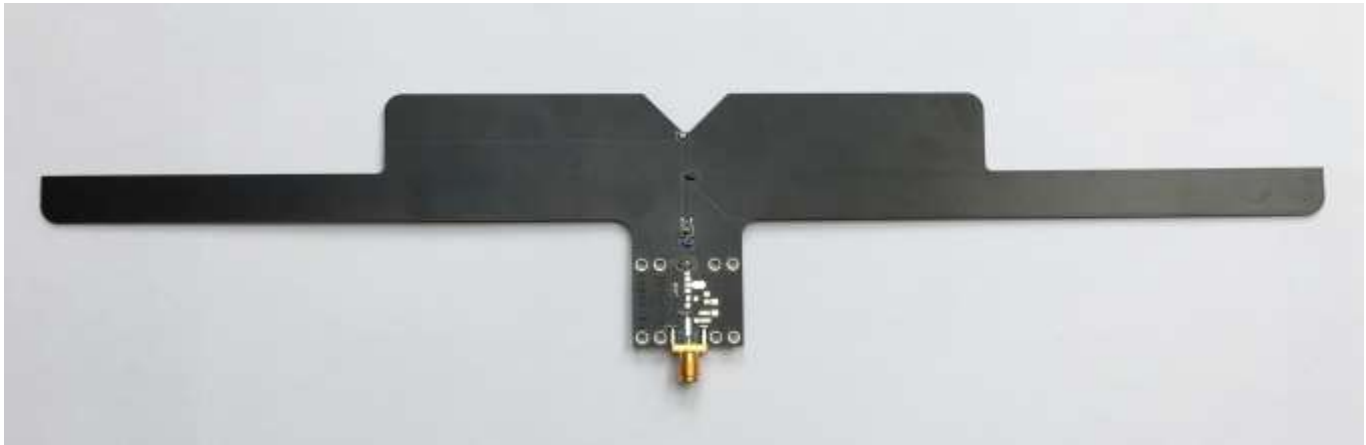
- Analog and digital radio links
- Spectrum monitoring and management
- Wideband signal intercepting and jamming
- Phased array and electronic beam forming applications

The information contained herein is believed to be accurate and reliable. Sagax assumes no responsibility for inaccuracies or omissions. Specifications subject to change without prior notice. All Trademarks are the property of their respective owners.

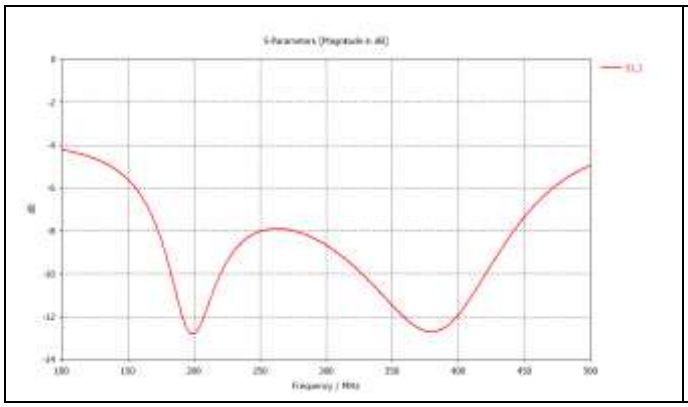
Functional block diagram

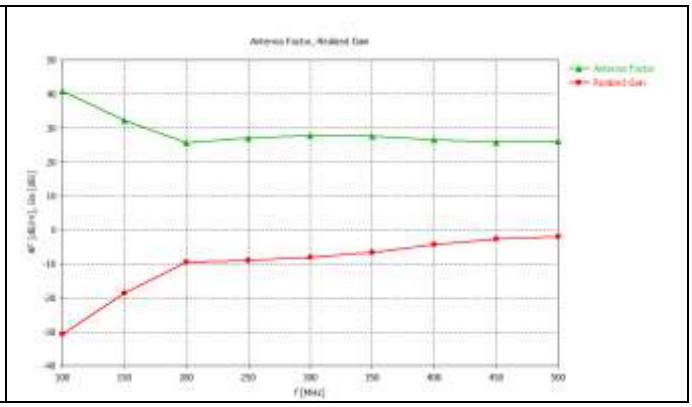


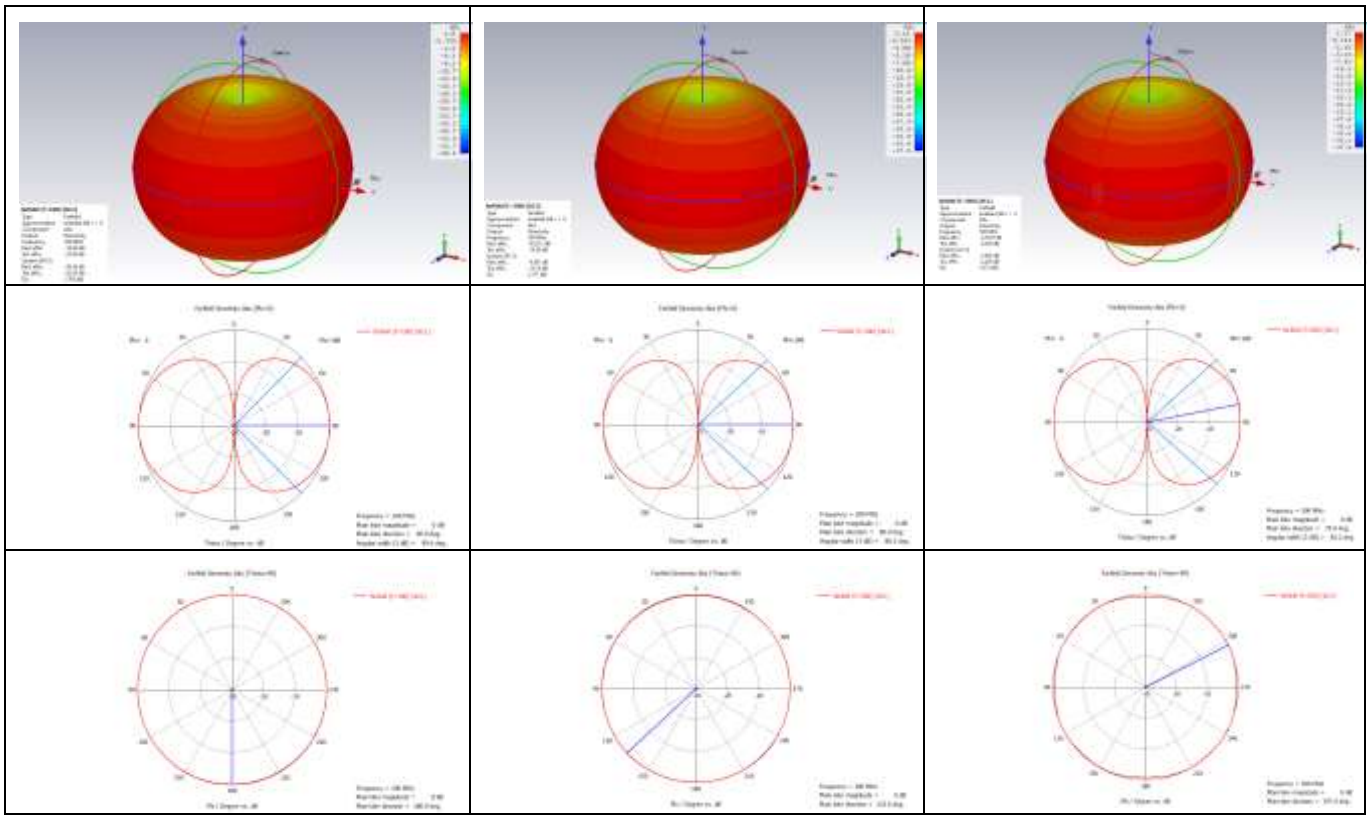
Product photos



Typical performance







Specification summary

Specification	Value
Frequency range	100 to 500 MHz
Polarization	vertical/horizontal
Radiation pattern	omnidirectional/fig.-8
Nominal impedance	50 ohm
VSWR	<3.5
Practical gain	0 dBi typ.
Connector	SMA female
Dimensions (L×W×H)	350×70×6.5mm (with SMA connector)
Mounting holes	20x25mm spacing, 2.5mm diameter