500-3000MHz wide-band dipole antenna SAW-3000

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

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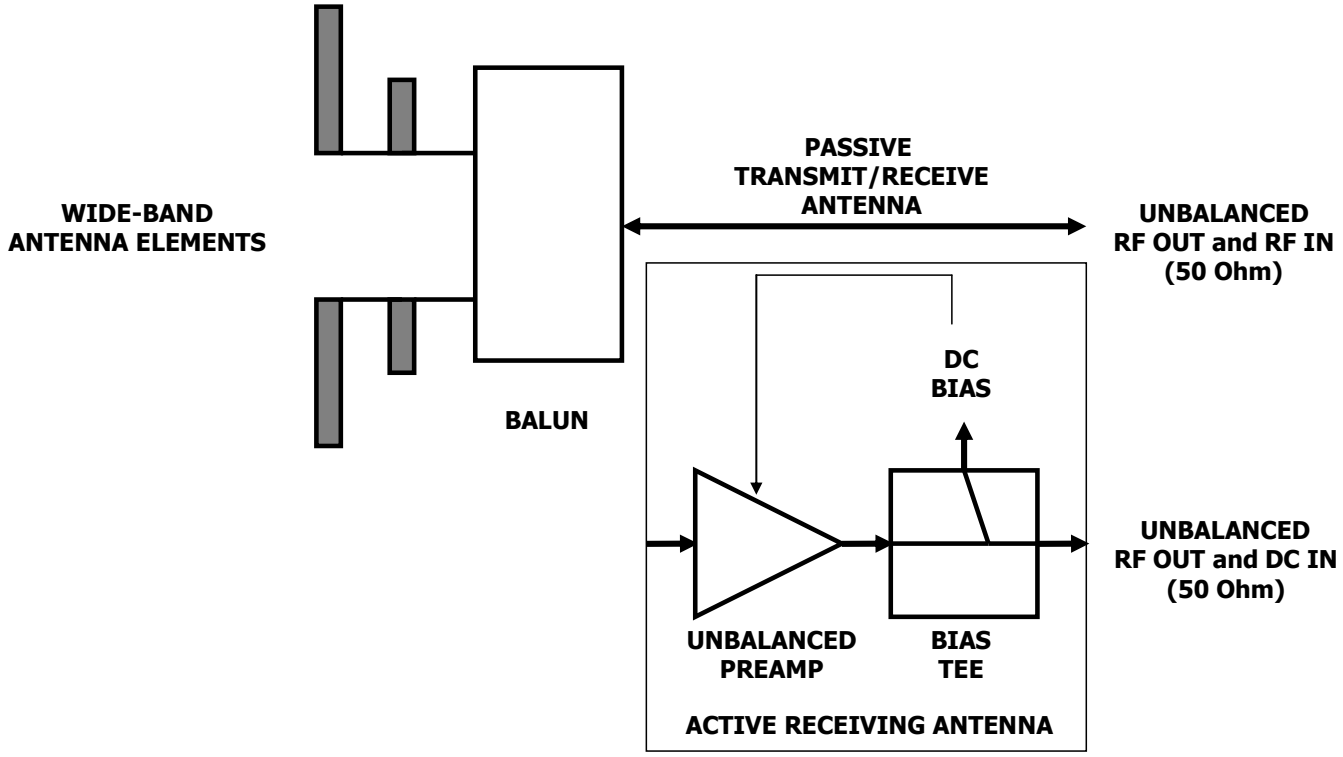
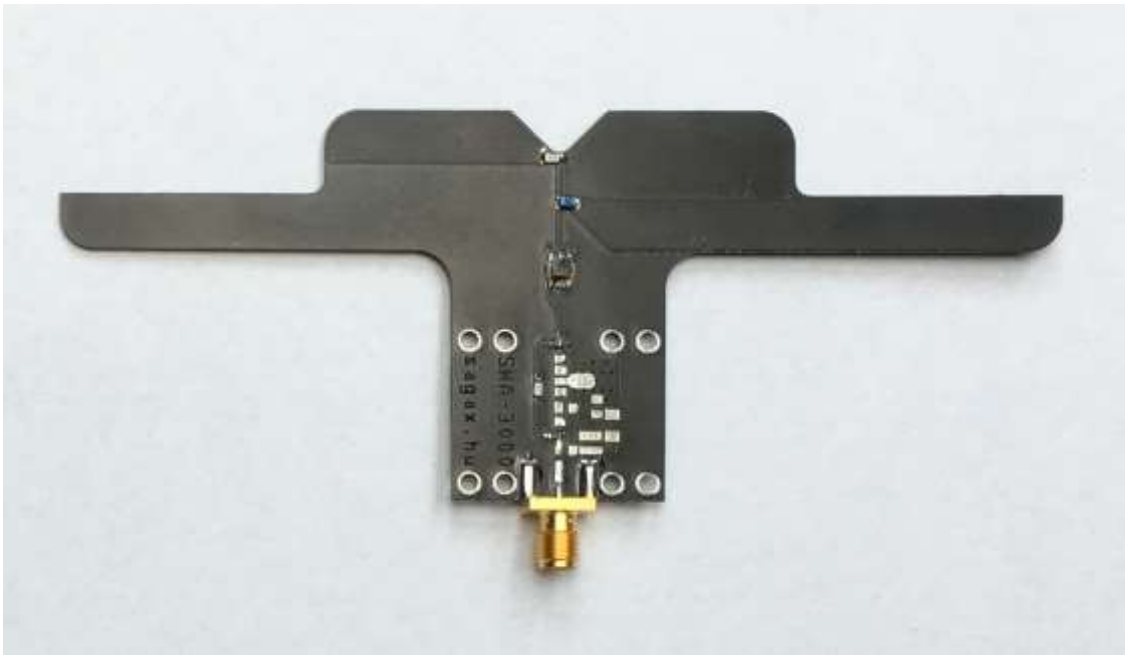
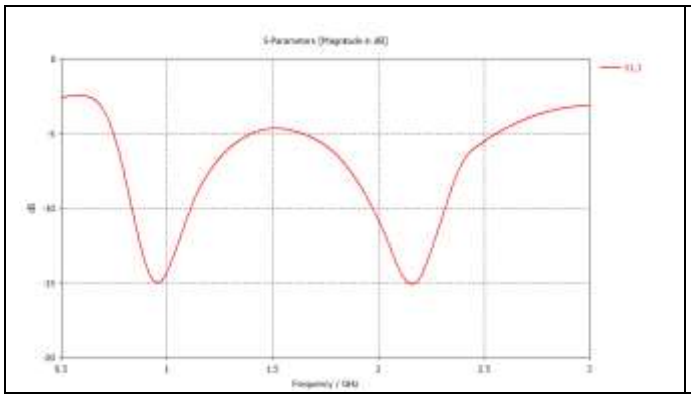
Functional block diagram

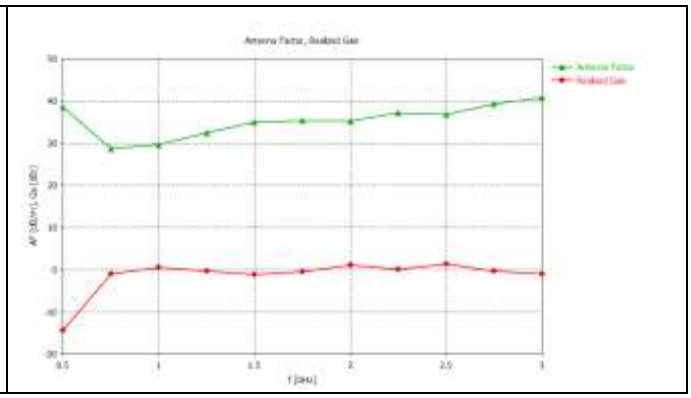


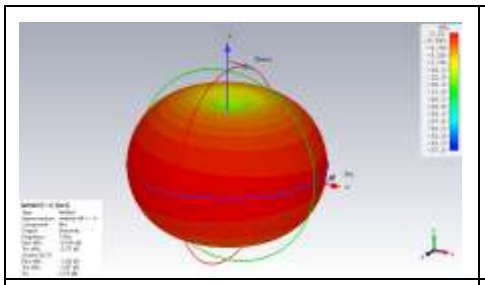
Product photos

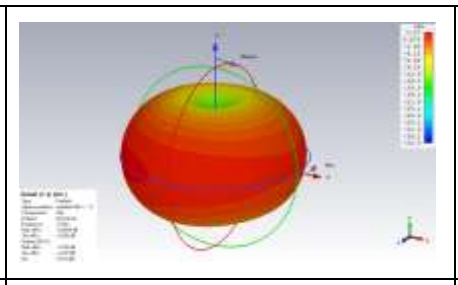


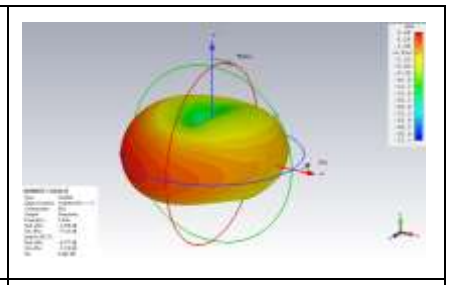
Typical performance

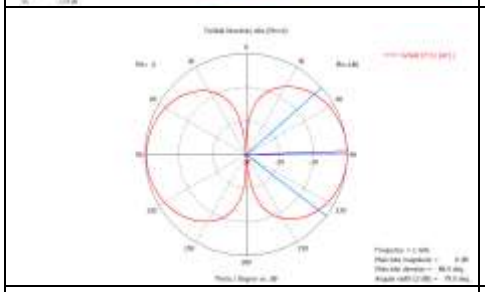


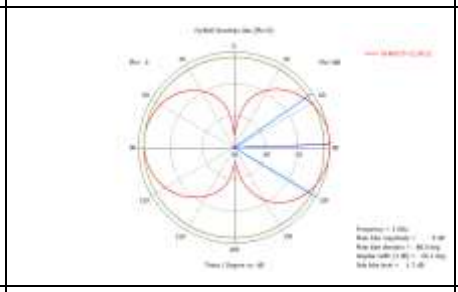


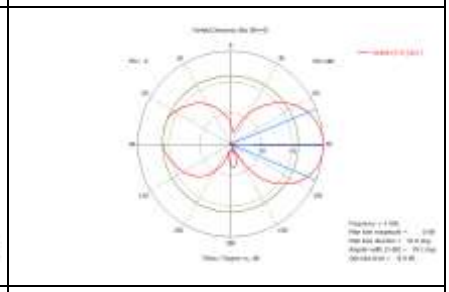












Specification summary

Specification	Value
Frequency range	500 to 3000 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)	140×65×6.5mm (with SMA connector)
Mounting holes	20x25mm spacing, 2.5mm diameter