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Sinuous Antenna
A Dual Polarized
**The Sinuous
Element For
Antenna A
Dual
Polarized
Element For
Wideband**

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dual polarized feed for
reflector-based
searching systems.

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overlay panel. Karim

Mohammad For

PourAghdam

RezaFaraji-Dana Jalil

Rashed-Mohassel. [http](http://doi.org/10.1016/j.aeue.2004.11.046)

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[ue.2004.11.046](http://doi.org/10.1016/j.aeue.2004.11.046) Get

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The sinuous antenna- A dual polarized feed for reflector ...

3. Design and fabrication of the sinuous antenna. The requirement of dual polarization dictates

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the need to have two equivalent structures, each corresponding to one sense of polarization. This is done by first generating one set of “arms” to achieve a linear polarization.

The sinuous antenna- A dual polarized feed for reflector ...

THE SINUOUS
ANTENNA A DUAL
POLARIZED ELEMENT
FOR WIDEBAND

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A Dual Polarized
PHASED ARRAY FEED
APPLICATION. K. S.

Saini, R. F. Bradley
February 13, 1996. The
Sinuous Antenna A dual
polarized. element for
wideband phased array
feed application.

Kamaljeet Singh Saini
Richard F. Bradley
February 13, 1996. 1
Introduction. Typical
radioastronomy
applications require
wideband antenna
elements to provide
large observable radio

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Element For
Wideband

spectrum without the
need to change feeds.

**THE SINUOUS
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POLARIZED
ELEMENT FOR
WIDEBAND ...**

The sinuous antenna
eliminates this
limitation and provides
an all-polarization
capability which can
respond to either dual
circular polarizations or
dual linear
polarizations.

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Furthermore, this capability is provided with greater precision than the spiral and in a similarly sized package.

BACKGROUND.

The dual polarized sinuous antenna. - Free Online Library

Dual Polarization
Sinuous Antennas.

L3Harris Randtron
Antenna Systems is the
world-class leader in
dual polarization

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sinuous antenna design. The sinuous antenna has the capability of simultaneously handling radio frequency signals of any two orthogonal polarizations on two isolated output ports.

Dual Polarization Sinuous Antennas - L3 Technologies

A dual circularly polarized antenna comprising: a number

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A Dual Polarized
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Wideband

N of identical generally
sinuous antenna arms
extending outwardly
from a common central
axis and arranged
symmetrically on a
surface at...

EP0198578B1 - Dual polarised sinuous antennas - Google Patents

However, the sinuous
antenna is a more
versatile antenna,
amenable to dual-
linear or dual-circular

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designs. The sinuous antenna was previously demonstrated in a lens-coupled THz detector, but the radiation patterns and polarization properties of these antennas have not yet been accurately characterized on dielectric lenses.

**Dual-polarized
sinuous antennas on
silicon dielectric ...**

Sinuous Antennas.

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COTS. Dual Linear.

Dual Circular.

Polarised. COTS and
custom designed Dual

Linear and Dual

Circular Polarised,

sinuous antennas for
direction finding,

ELINT, RWR and ESM

airborne, sea and

ground-based

applications. The

Steatite family of

sinuous antennas

simultaneously handle

signals of any two

orthogonal linear

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A Dual Polarized
polarisations and
simultaneous left and
right-handed circular
polarisations
dependent on antenna
design.

Sinuous Antennas | High Gain Sinuous Antennas | Steatite

The sinuous antenna
has been designed to
achieve better
performance compare
to spiral antenna
having same size. It
has capability to sense

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A Dual Polarized
Circular polarisations of
both types viz. RHCP
and LHCP
Wideband
simultaneously. Hence
it is also known as
"Dual polarised sinuous
antenna". It is specific
type of log periodic
antenna.

Advantages of Sinuous Antenna,dis advantages of Sinuous Antenna

2.4" DIAMETER DUAL
OUTPUT E/J BAND
SINUOUS ANTENNA.

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A Dual Polarized
2-18 GHz Frequency

Operation. Dual

Circular Polarization.

Designed for RWR

Application. Qualified

for Military Airborne

Environment. To meet

the challenge posed by

hostile signals that can

be arbitrarily polarized,

Randtron Antenna

Systems has developed

a common aperture

element capable of

simultaneously

receiving or

transmitting radio

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A Dual Polarized
Wideband
frequencies of any two
orthogonal polarized
signals on two isolated
ports.

RANDTRON ANTENNA SYSTEMS

Antennas Sinuous
California Institute of
Technology

California Institute of Technology

The dual-polarized
spiral antenna design
is compared to a
typical sinuous

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antenna of the same size. Various simulations with FEKO electromagnetic commercial software were conducted to determine the radiation patterns, polarization purity and bandwidth performance. A. Sinuous Antenna Example

Novel Dual Polarized Spiral Antenna - Quantum Reversal

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A sinuous antenna
having N identically
generally sinuous arms
extending outwardly
from a common point
and arranged
symmetrically on a
surface at intervals of
 $360^\circ/N$ about a central
axis. Each...

US4658262A - Dual polarized sinuous antennas - Google Patents

Abstract—A novel
wideband four-arm

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Wideband

sinuous antenna with dual circular polarizations and unidirectional radiation is proposed. Different from the conventional designs, this presented sinuous antenna is realized in a conical form and no absorptive cavity is needed to obtain unidirectional radiation.

**Kent Academic
Repository**

The sinuous antenna's
Page 20/26

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superior ultra wideband performance and dual polarization capability makes it ideal for both civil and military applications like direction-finding (DF) systems. The sinuous antennas generate broadside patterns with dual linear or circular polarization over wide beamwidths with good gain over the entire frequency band.

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A Dual Polarized

**Dual polarized
sinuous antenna and
ultra wideband feed**

...

Sinuous Antennas

COTS & custom

designed dual

linear/circular

polarised, sinuous

antennas for direction

finding, ELINT, RWR &

ESM airborne, sea &

ground applications.

Steatite Antennas |

Specialist Antenna

Manufacturer, COTS

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...

Phase-matched sets of antennas can be provided, with support radiation pattern data, to allow high resolution DF. Dimensions 84mm (3.3") by 67mm (2.6") diameter, weight 250 grams (8.8 ounces).

Model reference
SSA0218RL/2044,
Sinuous Spiral Antenna
with Dual Circular
Polarisation.

New, Ultra
Page 23/26

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**Wideband, Dual
Polar, Sinuous Spiral
Antenna ...**

I RANDTRON ANTENNA
SYSTEMS P/N 53640
SinuousAntennas2.4"
DIAMETER dual linear
polarization of the
sinuousDUAL OUTPUT
E/J BAND antenna via
an internal fully
integratedSINUOUS
ANTENNA quadrature
hybrid.

**RANDTRON
ANTENNA SYSTEMS**

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**Antennas Sinuous
Pages 1 - 4 ...**

If you really want to have a dual-circular polarized sinuous antenna you can use the standard 4-elements sinuous antenna with the addition of a beamforming network composed of baluns and ...

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cd98f00b204e9800998
ecf8427e.