

Active Dipole Receiving Antenna

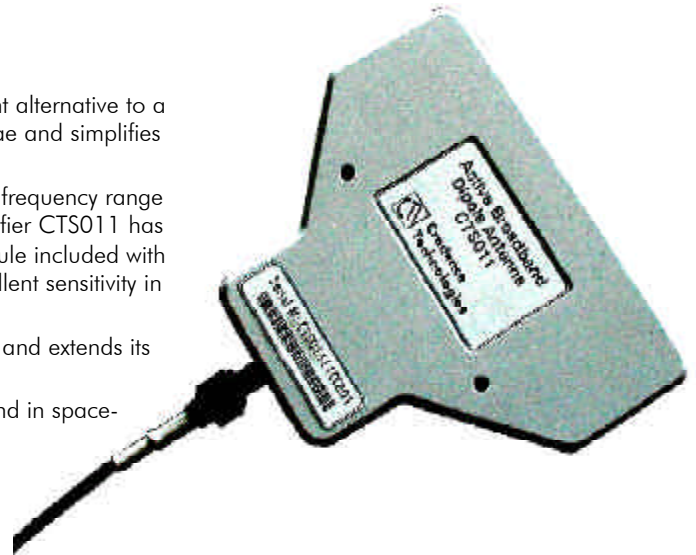
Broadband miniature receiving antenna for radiated emission

Miniature broadband active dipole receiving antenna CTS011 is a convenient alternative to a log-periodic antenna. It eliminates spatial errors introduced by large antennae and simplifies dealing with reflections and site attenuation.

CTS011 has built-in equalizing preamplifier that makes its sensitivity at lower frequency range superior to larger passive antennae. Thanks to a built-in equalizing preamplifier CTS011 has sensitivity comparable to conventional log-periodic antennae. Interface module included with antenna has dedicated channel with over 20 dB gain. This provides for excellent sensitivity in a miniature size.

CTS011 covers the entire range of interest for EMC testing (30MHz ...1GHz) and extends its working range to up to 2GHz.

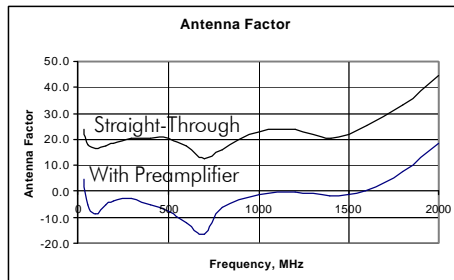
Miniature size makes CTS001 convenient for testing in anechoic chambers and in space-constrained test sites.



EMC Test Without Spider Web

Active Antenna

A low-noise preamplifier that is built-in inside the antenna provides equalization of frequency response to assure high sensitivity at low frequencies. While even large log-periodic antennae have drop of sensitivity at lower end of the spectrum, CTS011 provides good sensitivity at this range.



Active Dipole Antenna Model CTS011



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Applications

- EMC Compliance and Pre-Compliance Tests
- Telecommunication
- Site Survey
- Transmitter Adjustment
- Test Site Characterization

Features

- Wide Frequency Range (30MHz to 2GHz)
- High Sensitivity
- Broad Dynamic Range
- Miniature Size
- Active Circuitry
- Radiated Emission

Interface Module

CTS011 is active antenna and it requires power. Interface module provides precision clean DC power to antenna via the signal cable. One channel of interface module offers straight throughput, another -- 20dB of gain.



Specification

| | |
|------------------|-----------------------|
| Antenna | |
| Frequency Range | 30MHz..2GHz |
| Antenna Factor | See chart above |
| Dimensions | 3.75"x3"x0.75" |
| Connector | SMA |
| Power | Phantom |
| Interface Module | |
| Channels | 2 (0db and 20dB gain) |
| Battery | NiCad |
| Operation Time | 8 hrs. typ. |