

## ABSTRACT

### WIDEBAND PRINTED DIPOLE ANTENNA USING A TRIANGULAR PARASITIC ELEMENT

A novel wideband printed antenna is presented which achieves 47% bandwidth (where  $VSWR < 2$ ) from about 3.1 GHz to 5.0 GHz. The design is based on a printed dipole, but uses a triangular parasitic patch to enhance bandwidth. The antenna furthermore has the advantages of using a cheap FR-4 substrate and being fed via a microstrip line, which is easier to integrate with existing circuits and is easier to extend for the purpose of creating antenna arrays.

Timothy Randel Schellenberg  
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