

BROADBAND SUSPENDED PLATE ANTENNA WITH MULTI-POINT FEED**Abstract**

5 Feeding structures for suspended plate antennas are disclosed hereinafter for
enhancing the impedance bandwidth performance thereof. In any of these feeding
structures, a multi-dimensional broadband impedance transformer is integrated with a
suspended plate antenna. The impedance transformer electrically connects the
radiating plate and feeding probe of the suspended plate antenna. As a result, the
10 impedance bandwidth is increased. Moreover, the multi-dimensional design of the
impedance transformer is variable to allow the flexible design and adjustment of the
feeding structure.

15 Figure 1a.



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