

Abstract

A dual uncoupled mode box antenna which includes a conductive bottom horizontal ground plane, and a box structure superimposed on this ground plane. The box structure includes a vertical first conductive side insulated from the ground plane, and a vertical second conductive side insulated from the ground plane positioned in gapped relation to the first side. There is also a vertical third conductive side which is grounded to the ground plane and which is positioned in perpendicular gapped relation to second side. A vertical fourth conductive side is also grounded to the ground plane and is positioned in perpendicular gapped relation to the first and third sides. A conductive top is superimposed over and insulated from the first, second, third, and fourth sides. The first and second sides are fed in quadrature to create either left handed or right handed polarization.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100