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 # 332 (B) 71 7/16

DB205 Cutting Chart

Whip and Skirt Lengths for Field Tuning

33-174 MHz

TUNING INSTRUCTIONS

The DB205 is a heavy-duty, unity gain, omni antenna for 33-174 MHz. Models are typically cut to frequency and tested at the factory; however, uncut models, which can be field tuned, are available. When field tuning uncut DB205 antennas, the following charts list the lengths to which the whip and skirt should be set to obtain a certain desired frequency.

To determine the correct lengths, find the desired frequency in the "Frequency" column. Then, follow across to the right to the "A" and "B" columns to find the lengths. The length of the whip is shown in column "A" and the length of the skirt is shown in column "B". (See also, Figure 1.) All measurements are in inches.

To adjust the length of the whip, loosen the set screws, remove the whip, and cut it to the desired length. Replace the whip and tighten the set screws. To adjust the length of the skirt, loosen the set ring and telescope the unit to the desired length. Replace the set ring.

Note: Antennas should not be tuned to a frequency that requires the "T" or "C" dimensions other than those originally supplied with the antenna.

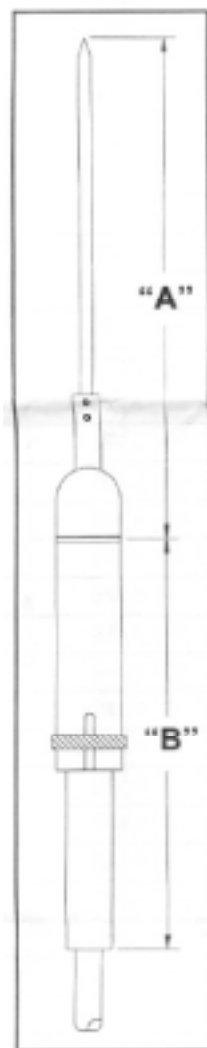


Figure 1 - DB205 Antenna
 (Whip length is "A"; Skirt length is "B".
 All measurements are in inches.)

(A) 77
 (B) 71 7/16

Warning!

Installation of any antenna near power lines is *dangerous*.
 For your safety, follow the installation procedures.

All measurements are in inches.

Freq. (MHz)	A Whip	B Skirt	T Transformer	C TX Lead
33.0	92	84	40	110
33.2	91 1/2	83 1/4	40	110
33.4	91	83	40	110
33.6	90 1/2	82 1/2	40	110
33.8	90	82 1/8	40	110
34.0	89 1/2	81 5/8	40	110
34.2	89	81 1/4	40	110
34.4	88 1/2	80 7/8	40	110
34.6	88	80 1/2	40	110
34.8	87 1/2	80	40	110
35.0	87	79 5/8	40	110
35.2	86 1/2	79 1/4	40	110
35.4	86	78 7/8	40	110
35.6	85 1/2	78 3/8	40	110
35.8	85	78	40	110
36.0	84 1/2	77 5/8	40	110
36.2	84	77 1/4	40	110
36.4	83 5/8	77	40	110
36.6	83 1/4	76 5/8	40	110
36.8	82 3/4	76 1/8	40	110
37.0	82 1/4	75 7/8	40	110
37.2	81 7/8	75 3/8	40	110
37.4	81 3/8	75	40	110
37.6	81	74 5/8	40	110
37.8	80 1/2	74 1/4	40	110
38.0	80 1/8	74	40	110
38.2	79 5/8	73 1/2	40	110
38.4	79 1/4	73 1/8	40	110
38.6	78 7/8	72 7/8	40	110
38.8	78 1/2	72 1/2	40	110
39.0	78	72 1/4	40	110
39.2	77 5/8	71 15/16	40	110
39.4	77 1/8	71 5/8	40	110
39.6	76 7/8	71 1/4	40	110

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All measurements are in inches.

Freq. (MHz)	A Whip	B Skirt	T Transformer	C TX Lead
39.8	76 1/2	71	40	110
40.0	76	70 3/4	40	110
40.2	75 5/8	70 1/2	40	110
40.4	75 1/4	70 1/4	40	110
40.6	74 3/4	69 15/16	40	110
40.8	74 3/8	69 5/8	40	110
41.0	74 1/4	69 1/2	40	110
41.2	74	69 3/8	40	110
41.4	73 1/2	69 1/8	40	110
41.6	73 1/4	68 3/4	40	110
41.8	72 7/8	68 1/2	40	110
42.0	72 1/2	68 1/4	40	110
42.2	72	68	40	110
42.4	71 3/4	67 3/4	40	110
42.6	71 3/8	67 1/2	40	110
42.8	71	67 1/8	40	110
43.0	70 5/8	66 7/8	40	110
43.2	70	66 3/8	40	110
43.4	69 5/8	66 1/8	40	110
43.6	69 1/4	65 3/4	40	110
43.8	68 7/8	65 5/8	40	110
44.0	68 5/8	65 3/8	40	110
44.2	68 1/4	65 1/8	40	110
44.4	68	64 7/8	40	110
44.6	67 5/8	64 3/4	40	110
44.8	67 1/4	64 1/2	40	110
45.0	66 7/8	64 3/16	40	110
45.2	66 3/4	64	40	110
45.4	66 3/8	63 3/4	40	110
45.6	66	63 1/2	40	110
45.8	65 3/4	63 1/4	40	110
46.0	65 3/8	62 15/16	40	110
46.2	65	62 3/4	40	110
46.4	64 3/4	62 1/2	40	110
46.6	64 1/2	62 1/4	40	110
46.8	64 1/8	62	40	110
47.0	63 7/8	61 3/4	40	110
47.2	63 5/8	61 1/2	40	110
47.4	63 1/4	61 1/4	40	110
47.6	63	61 1/8	40	110

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Freq. (MHz)	A Whip	B Skirt	T Transformer	C TX Lead
47.8	62 3/4	60 7/8	40	110
48.0	62 1/2	60 3/4	40	110
48.2	62 1/8	60 1/2	40	110
48.4	61 7/8	60 1/4	40	110
48.6	61 5/8	60	40	110
48.8	61 3/8	59 3/4	40	110
49.0	61 1/8	59 5/8	40	110
49.2	60 7/8	59 3/8	40	110
49.4	60 5/8	59 1/4	40	110
49.6	60 3/8	59	40	110
49.8	60 1/8	58 3/4	40	110
50.0	60	58 5/8	40	110
50.5	58 1/2	55 3/8	35	75
51.0	57 7/8	54 7/8	35	75
51.5	57 5/16	54 3/8	35	75
52.0	56 3/4	53 7/8	35	75
52.5	56 1/4	53 1/2	35	75
53.0	55 11/16	53 1/8	35	75
53.5	55 3/16	52 5/8	35	75
54.0	54 11/16	52 1/8	35	75
54.5	54 3/16	51 5/8	35	75
55.0	53 11/16	51 1/4	35	75
55.5	53 3/16	50 7/8	35	75
56.0	52 3/4	50 7/16	35	75
56.5	52 1/4	50	35	75
57.0	51 13/16	49 5/8	35	75
57.5	51 5/16	49 1/8	35	75
58.0	50 7/8	48 3/4	35	75
58.5	50 7/16	48 3/8	35	75
59.0	50	48	35	75
59.5	49 5/8	47 5/8	35	75
60.0	49 3/16	47 1/4	35	75
60.5	48 13/16	46 3/4	25	85
61.0	48 3/16	46 5/16	25	85
61.5	48	46	25	85
62.0	47 5/8	45 5/8	25	85
62.5	47 1/4	45 1/4	25	85
63.0	46 7/8	45	25	85
63.5	46 1/2	44 5/8	25	85
64.0	46 1/8	44 3/8	25	85

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Freq. (MHz)	A Whip	B Skirt	T Transformer	C TX Lead
64.5	45 3/4	44	25	85
65.0	45 7/16	43 3/4	25	90
65.5	45 1/16	43 3/8	25	90
66.0	44 3/4	43 1/8	20	90
66.5	44 3/8	42 3/4	20	90
67.0	44 1/16	42 1/2	20	90
67.5	43 3/4	42 1/4	20	90
68.0	43 7/16	42	20	90
68.5	43 1/16	41 3/4	20	90
69.0	42 3/4	41 1/2	20	90
69.5	42 1/2	41 1/4	20	90
70.0	42 3/16	41	20	90
70.5	41 7/8	40 1/8	20	90
71.0	41 9/16	39 1/2	20	90
71.5	41 5/16	39 1/4	20	90
72.0	41	39	20	90
72.5	40 3/4	38 3/4	20	90
73.0	40 7/16	38 1/2	20	90
73.5	40 3/16	38 1/4	20	90
74.0	39 7/8	38	20	90
74.5	39 5/8	37 3/4	20	90
75.0	39 3/8	37 5/8	20	90
75.5	39 1/8	37 3/8	20	90
76.0	38 13/16	37 1/8	20	90
76.5	38 9/16	36 7/8	20	90
77.0	38 5/16	36 5/8	20	90
77.5	38 1/16	36 3/8	20	90
78.0	37 7/8	36 1/8	20	90
78.5	37 5/8	35 7/8	20	90
79.0	37 3/8	35 3/4	20	90
79.5	37 1/8	35 1/2	20	90
80.0	36 7/8	35 1/4	20	90
80.5	36 11/16	35	20	90
81.0	36 7/16	34 7/8	20	90
81.5	36 1/4	34 5/8	20	90
82.0	36	34 3/8	20	90
82.5	35 3/4	34 1/4	20	90
83.0	35 9/16	34	20	90
83.5	35 3/8	33 7/8	20	90
84.0	35 1/8	33 5/8	20	90

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Freq.	A Whip	B Skirt	T Transformer	C TX Lead
84.5	34 15/16	33 1/2	20	90
85.0	34 3/4	33 1/4	15	95
85.5	34 1/2	33 1/16	15	95
86.0	34 5/16	32 7/8	15	95
86.5	34 1/8	32 3/4	15	95
87.0	33 15/16	32 5/8	15	95
87.5	33 3/4	32 3/8	15	95
88.0	33 9/16	32 1/8	15	95
88.5	33 3/8	31 1/4	9	76
89.0	33 3/16	31 1/16	9	76
89.5	33	30 7/8	9	76
90.0	32 13/16	30 11/16	9	76
90.5	32 5/8	30 5/8	9	76
91.0	32 7/8	30 3/8	9	76
91.5	32 1/4	30 5/16	9	76
92.0	32 1/8	30 1/4	9	76
92.5	31 15/16	30	9	76
93.0	31 3/4	29 7/8	9	76
93.5	31 9/16	29 3/4	9	76
94.0	31 3/8	29 5/8	9	76
94.5	31 1/4	29 7/16	9	76
95.0	31 1/16	29 1/4	9	76
95.5	30 15/16	29 1/8	9	76
96.0	30 3/4	29	9	76
96.5	30 9/16	28 7/8	9	76
97.0	30 7/16	28 3/4	9	76
97.5	30 1/4	28 5/8	9	76
98.0	30 1/8	28 1/2	9	76
98.5	30	28 3/8	9	76
99.0	29 13/16	28 1/4	9	76
99.5	29 11/16	28 1/8	9	76
100	29 1/2	28	9	76
101	29 1/4	27 3/4	9	63
102	28 15/16	27 1/2	9	63
103	28 11/16	27 1/4	9	63
104	28 3/8	27	9	63
105	28 1/8	26 3/4	9	63
106	27 7/8	26 1/2	9	63
107	27 9/16	26 3/8	9	63
108	27 5/16	26 1/8	9	63

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Freq. (MHz)	A Whip	B Skirt	T Transformer	C TX Lead
109	27 1/16	26	9	63
110	26 7/8	25 3/4	9	63
111	26 9/16	25 5/8	9	63
112	26 3/8	25 3/8	9	63
113	26 1/8	25 1/4	9	63
114	25 7/8	25	9	63
115	25 11/16	24 3/4	9	63
116	25 7/16	24 1/2	9	63
117	25 1/4	24 3/8	9	63
118	25	24 1/4	9	63
119	24 13/16	24	9	63
120	24 5/8	23 7/8	9	63
121	24 3/8	23 3/4	9	63
122	24 3/16	23 1/2	9	63
123	24	23 3/8	9	63
124	23 13/16	23 1/4	9	63
125	23 5/8	23	9	63
126	23 7/16	22 7/8	9	63
127	23 1/4	22 3/4	9	63
128	23 1/16	22 9/16	9	63
129	22 7/8	22 3/8	9	63
130	22 11/16	22 1/4	9	63
131	22 1/2	22 1/8	7	65
132	22 3/8	22	7	65
133	22 3/16	21 7/8	7	65
134	22	21 3/4	7	65
135	21 7/8	21 5/8	7	65
136	21 3/4	21 1/2	7	65
137	21 9/16	21 3/8	7	65
138	21 3/8	21 1/4	7	65
139	21 1/4	21 1/8	7	65
140	20 1/16	21	7	65
141	20 15/16	20 7/8	7	65
142	20 13/16	20 3/4	7	65
143	20 5/8	20 5/8	7	65
144	20 1/2	20 1/2	7	65
145	20 3/8	20 3/8	7	65
146	20 1/4	20 1/4	7	65
147	20 1/16	20 3/16	7	65
148	19 15/16	20 1/8	7	65

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Freq. (MHz)	A Whip	B Skirt	T Transformer	C TX Lead
149	19 13/16	20	7	65
150	19 11/16	19 7/8	7	65
151	19 9/16	19 13/16	7	65
152	19 7/16	19 3/4	7	65
153	19 5/16	19 5/8	7	65
154	19 3/16	19 1/8	7	65
155	19 1/16	19	7	65
156	18 15/16	18 7/8	9	63
157	18 13/16	18 11/16	9	63
158	18 11/16	18 9/16	9	63
159	18 9/16	18 3/8	9	63
160	18 7/16	18 1/4	9	63
161	18 5/16	18 1/8	7	65
162	18 1/4	18 1/16	7	65
163	18 1/8	17 15/16	7	65
164	18	17 7/8	7	65
165	17 7/8	17 3/4	7	65
166	17 3/4	17 5/8	7	65
167	17 11/16	17 1/2	7	65
168	17 9/16	17 3/8	7	65
169	17 1/2	17 5/16	7	65
170	17 3/8	17 3/16	7	65
171	17 1/4	17 1/8	7	65
172	17 3/16	17	7	65
173	16 1/16	16 15/16	7	65
174	17	16 7/8	7	65
175	16 7/8	16 13/16	7	65



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