

BTY

Single Channel VHF/UHF Antennas

○ Specifications

VHF Single Channel

Model: BTY-5-LB BTY-10-HB

Channel:	2	3	4	5	6	FM	7	8	9	10	11	12	13
Bandwidth (MHz):	8	8	8	8	8	23	8	8	8	8	8	8	8
Gain (dBi):	9.2	9.2	9.2	9.2	9.2	9.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
3 dB Beamwidth Horizontal (Degrees):	63	63	63	63	63	63	51	51	51	51	51	51	51
Front to Back Ratio (dB):	17	17	17	17	17	17	17	17	17	17	17	17	17
Return Loss (dB):	12	12	12	12	12	12	17	17	17	17	17	17	17
Impedance:	75 Ohms												
Connector:	F Connector												
Number of Elements:	5	5	5	5	5	6	10	10	10	10	10	10	10
Boom Length (Inches):	128	116	105	96	96	120	131	126	122	118	115	110	106
Max Element Width (Inches):	106	97	85	75	71	64	33	32	32	31	31	29	28
Boom Material:	6063-T6 Alum. Tube 1.25" square, 0.062" wall												
Element Material:	6063-T52 Alum. Tube 0.5" round, 0.049" wall												
Max Cross Sectional Area (sq. ft.):	1.56	1.45	1.35	1.28	1.2	1.45	1.48	1.43	1.4	1.35	1.33	1.28	1.25
Wind Resistance @ 100 MPH (No Ice in lbs.):	49.84	45.67	41.85	38.73	38.73	47.06	52.56	50.83	49.44	48	47	45	43.88
Antenna Weight (lbs.):	10.2	9.89	9.36	8.86	8.61	9.61	9.61	9.49	9.37	8.86	8.99	8.74	8.61
Maximum Shipping Weight (lbs.):	13.25												

VHF

Model:

Band	BTY-LP-LB LB	BTY-HB-HP HB	BTY-LP-BB BB	BTY-2-FM FM
Channel:	2 to 6	7 to 13	2 to 13	FM
Bandwidth (MHz):	55-88	174-216	54-88; 174-216	88-108
Gain (dBi):	9	12.2	8.2	2.2
3 dB Beamwidth Horizontal (Degrees):	57	50.5	70	360
Front to Back Ratio (dB):	22	20	18	N/A
Return Loss (dB):	14	12	12	12
Impedance:	75 Ohms			
Connector:	F Connector			
Number of Elements:	8	10	12	2
Boom Length (Inches):	86	104	96.4	18
Max Element Width (Inches):	109.13	35.5	114.13	59
Boom Material:	6063-T6 Alum. Tube 1.25" square, 0.062" wall			
Element Material:	6063-T52 Alum. Tube 0.5" round, 0.049" wall			
Max Cross Sectional Area (sq. ft.):	1.9	1.3	2	0.463
Wind Resistance @ 100 MPH (No Ice in lbs.):	76.2	52	80	-
Shipping Weight (lbs.):	15.25	13.25	17.75	3

BTY Series

Single Channel VHF/UHF Antennas

○ Specifications

UHF	BTY-10-U						BTY-UHF-BB
Model:							UHF
Band	A	B	C	D	E	F	14 to 69
Channel:	(14-19)	(20-26)	(27-34)	(35-44)	(45-56)	(57-69)	
Bandwidth (MHz):	470-506	506-548	548-596	596-656	656-728	728-806	470-890
Gain dBi:	12.2	14.2	13.2	12.2	12.2	12.2	10.2
3 dB Beamwidth (horizontal) Degrees:	46	46	46	46	46	46	62
Front to Back Ratio (dB):	21	16	19	20	18	14	18
Return Loss:	18	16	18	16	15	14	12
Impedance:	75 Ohms						
Connector:	F Connector						
Number of Elements:	10	10	10	10	10	10	11
Boom Length (Inches):	48.58	48	44.06	42.94	39	37.88	24
Max Element Width (Inches):	12.88	12.44	11	10.5	10	9.13	13
Boom Material:	6063-T6 Alum. Tube 0.75" Square, 0.062" Wall						
Element Material:	6063-T52 Alum. Tube 0.375" Round, 0.049" Wall (Dipole .5" Round, 0.049 Wall)						
Max Cross Sectional Area (sq. ft.):	0.468	0.468	0.468	0.468	0.468	0.468	0.341
Wind Resistance @ 100 MPH (No Ice in lbs.):	16.52	16.52	16.52	16.52	16.52	16.52	13.6
Shipping Weight (lbs.):	4.25	4.25	4.25	4.25	4.25	4.25	5.38

○ Ordering Information

Model	Stock No.	Description
BTY-5-LB	4866-xx	Antenna Single Channel Low-Band VHF/FM, 5 Elements, 54-88/88-108MHz
BTY-10-HB	4867-xx	Antenna Single Channel High-Band VHF, 10 Elements, 174-216MHz
BTY-LP-HB	4871	Antenna Broadband High-Band VHF, 10 Elements, 174-216MHz
BTY-LP-LB	4872	Antenna Broadband Low-Band VHF, 8 Elements, 55-88MHz
BTY-10-U	4873-xx	Antenna Single Channel UHF, 10 Elements, 470-806MHz
BTY-LP-BB	4874	Antenna Broadband VHF, 12 Elements, 54-88/174-216MHz
BTY-UHF-BB	4875	Antenna Broadband UHF Antenna, 11 Elements, 470-890MHz
BTY-2-FM	4878	Antenna Omnidirectional FM, 2 Elements, 88-108MHz