

698-800MHz and 698-896MHz Antennas



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698-800MHz	Model	Gain (dBd)	V-Beam	Dimensions (in.)
40° V-Pol	Fast V7-FRO-440	14.7	14.5	50.5 x 18.8 x 6.2
	Roll-off V7-FRO-640	16.1	11	72 x 18.8 x 8.9
	Models V7-FRO-840	16.8	8	96 x 18.8 x 8.9
40° X-Pol	X7-FRO-440	14.7	14.5	50.5 x 18.8 x 6.2
	X7-FRO-640	16.1	11	72 x 18.8 x 8.9
	X7-FRO-840	17.2	8	96 x 18.8 x 8.9
60° V-Pol	V7-FRO-460	13.1	14.5	50.5 x 14.6 x 8.0
	V7-FRO-660	14.7	11	72 x 14.6 x 8.0
	V7-FRO-860	15.8	8	96 x 14.6 x 9
60° X-Pol	X7-FRO-460	13.1	14.5	50.5 x 14.6 x 8.0
	X7-FRO-660	14.7	11	72 x 14.6 x 8.0
	X7-FRO-860	15.6	8	96 x 14.6 x 8.0
65° X-Pol	X7-165	7.0	63	13 x 13 x 4.5
	X7-265	9.6	32	24 x 12.5 x 7
	X7-465	12.2	16	50.5 x 12.5 x 7
	X7-665	13.7	11	72 x 12.5 x 7
	X7-865	14.8	8	96 x 12.5 x 7
80° X-Pol	X7-480	11.3	17.3	50.5 x 12.5 x 7.8
	X7-680	12.6	11	72 x 12.5 x 7.8
	X7-880	13.9	7.9	96 x 12.5 x 7.8

698-896MHz	Model	Gain (dBd)	V-Beam	Dimensions (in.)
40° V-Pol	Fast V7C-FRO-440	15.3	14.5	50.5 x 18.8 x 6.2
	Roll-Off V7C-FRO-640	16.7	11	72 x 18.8 x 8.9
	Models V7C-FRO-840	17.4	8	96 x 18.8 x 8.9
40° X-Pol	X7C-FRO-440	15.3	14.5	50.5 x 18.8 x 6.2
	X7C-FRO-640	16.7	11	72 x 18.8 x 8.9
	X7C-FRO-840	17.4	8	96 x 18.8 x 8.9
60° V-Pol	V7C-FRO-460	13.7	14.5	50.5 x 14.6 x 8.0
	V7C-FRO-660	15.1	11	72 x 14.6 x 8.0
	V7C-FRO-860	16.2	8	96 x 14.6 x 9
60° X-Pol	X7C-FRO-460	13.7	14.5	50.5 x 14.6 x 8.0
	X7C-FRO-660	15.1	11	72 x 14.6 x 8.0
	X7C-FRO-860	16.2	8	96 x 14.6 x 8.0
65° V-Pol	V7C-165	7.2	63	13 x 13 x 4.5
	V7C-265	10.0	28	24 x 12.5 x 7
	V7C-465	12.8	14.5	50.5 x 12.5 x 7
	V7C-665	14.3	11	72 x 12.5 x 7
	V7C-865	15.4	7.5	96 x 12.5 x 7
65° X-Pol	X7C-165	7.2	63	13 x 13 x 4.5
	X7C-265	10.0	28	24 x 12.5 x 7
	X7C-465	12.8	14.5	50.5 x 12.5 x 7
	X7C-665	14.3	11	72 x 12.5 x 7
	X7C-865	15.4	7.5	96 x 12.5 x 7
80° V-Pol	V7C-480	11.4	16	50.5 x 12.5 x 7
	V7C-680	12.7	11	72 x 12.5 x 7
	V7C-880	14.0	7.9	96 x 12.5 x 7
80° X-Pol	X7C-480	11.4	16	50.5 x 12.5 x 7.8
	X7C-680	12.7	11	72 x 12.5 x 7.8
	X7C-880	14.0	7.9	96 x 12.5 x 7.8

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698-800 and 1850-1990 MHz X-pol Dual Band					
	Model	Gain (dBd)	V-Beam	Dimensions (in.)	
65°	X7P-665	13.2 / 16.3	11 / 5	72 x 12.5 x 7	
80°	X7P-480				
698-896 and 1710-2170 MHz V-pol Dual Band					
	V7CAP-165	7.2 / 9.8	63 / 33	13 x 13 x 4.5	
65°	V7CAP-465	12.8 / 15.0	14.5 / 7	50.5 x 12.5 x 7	
	V7CAP-665	14.3 / 16.6	11 / 5	72 x 12.5 x 7	
	V7CAP-865	15.4 / 17.6	7.5 / 4	96 x 12.5 x 7	
698-896 and 1710-2170 MHz X-pol Dual Band					
	X7CAP-165	7.2 / 9.8	63 / 33	12.6 x 12.0 x 5.6	
65°	X7CAP-265	10.0 / 12.7	28 / 14.5	24 x 12.5 x 7	
	X7CAP-365	11.4 / 14.5	25 / 10	36 x 12.5 x 7	
	X7CAP-465	12.3 / 15.8	14.5 / 7	50.5 x 12.5 x 7	
	X7CAP-665	13.8 / 16.6	11 / 5	72 x 12.5 x 7	
	X7CAP-865	15.4 / 17.6	7.5 / 4	96 x 12.5 x 7	
80°	X7CAP-480	11.7 / 14.9	16 / 7.5	50.5 x 14.6 x 7	
	X7CAP-680	13.1 / 15.7	11 / 5	72 x 14.6 x 7	
	X7CAP-880	14.3 / 16.8	8 / 4.5	96 x 14.6 x 7	
824-896 & 1850-1990 MHz V-pol Dual Band					
	Model	800 MHz Gain (dBi)	1900 MHz Gain (dBi)	V-Beam 800/1900	Dimensions (in.)
60°	DUO4-6060	15.0	17.4	15 / 7	48.4 x 16.7 x 9
	DUO6-6060	16.5	19.0	11 / 5	72 x 14.6 x 7
	DUO8-6060	17.8	17.4	8 / 7	96.4 x 16.7 x 9
78° & 65°	DUO4-7865	<i>Please contact CSS for availability.</i>			
	DUO8-7865	<i>Please contact CSS for availability.</i>			
78°	DUO4-7878	<i>Please contact CSS for availability.</i>			
86°	DUO4-8686	13.6	15.8	15 / 7	48.4 x 14 x 9
	DUO6-8686	15.8	16.0	15 / 5	72 x 12.5 x 7
	DUO8-8686	16.1	15.8	8 / 7	96.4 x 14 x 9
824-896 & 1710-2170 MHz X-pol Dual Band					
H-Beam	Model	800 MHz Gain (dBi)	1900 MHz Gain (dBi)	V-Beam 800/1900MHz	Dimensions (in.)
65°	XDUO4-65	14.7	17.0	15 / 7	50.5 x 12.5 x 7
	XDUO6-65	16.1	18.6	11 / 5	74.5 x 12.5 x 7
	XDUO8-65	17.5	18.6	8 / 5	91 x 12.5 x 7
80°	XDUO4-80	13.8	16.1	15 / 7	50.5 x 14.6 x 7
	XDUO6-80	15.0	17.7	11 / 5	72 x 14.6 x 7
	XDUO8-80	16.5	17.7	8 / 5	96 x 14.6 x 7

Cylinder Dual Band 700/800 & 1750/2170 MHz Antennas

700MHz and DUAL BAND X-pol 698-896 and 1710-2170 MHz Cylinders				
	Model	Gain (dBd)	V-Beam	Dimensions (in.)
	CYL-X7C-465	12.8	14.5	60" Long x 16" Diameter
	CYL-X7CAP-465	12.3 / 15.8	14.5 / 7	60" Long x 16" Diameter
	CYL-XDUO-465	12.6 / 14.9	15 / 7	60" Long x 16" Diameter

824-896MHz Antennas



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	Model	Gain (dBd)	V-Beam	Dimensions (in.)
40° V-Pol	SA15-40	15.2	15	48.2 x 22.7 x 11.3
60° V-Pol Fast Roll-Off	VC-FRO-460	13.4	14.5	50.5 x 14.6 x 8.0
	VC-FRO-660	15.1	11	72 x 14.6 x 8.0
	VC-FRO-860	16.2	8	96 x 14.6 x 9
60° V-Pol	*SA14-60	13.6	15	* 50.5 x 12.5 x 7
	*SA15-60	15.2	11	* 72 x 12.5 x 7
	*SA16-60	16.4	8	* 96 x 12.5 x 7
78° V-Pol	SA13-78	<i>Please contact CSS for availability.</i>		
	SA14-78	<i>Please contact CSS for availability.</i>		
	SA15-78	<i>Please contact CSS for availability.</i>		
86° V-Pol	*SA13-86	12.2	15	* 50.5 x 12.5 x 7
	*SA14-86	13.8	11	* 72 x 12.5 x 7
	*SA15-86	15.0	8	* 96 x 12.5 x 7
40° X-Pol Fast Roll-Off	XC-FRO-440	15.0	14.5	50.5 x 18.8 x 6.2
	XC-FRO-640	16.7	11	72 x 18.8 x 8.9
	XC-FRO-840	17.8	8	96 x 18.8 x 8.9
60° X-Pol Fast Roll-Off	XC-FRO-460	13.5	15	50.5 x 14.6 x 8.0
	XC-FRO-660	15.2	10.5	72 x 14.6 x 8.0
	XC-FRO-860	16.3	7.5	96 x 14.6 x 8.0
65° X-Pol	XC-465 (replaces XPC13-65)	12.6	16	50.5 x 12.5 x 7
	XC-665 (replaces XPC14-65)	14.0	11	72 x 12.5 x 7
	XC-865 (replaces XPC16-65)	15.2	8	96 x 12.5 x 7
80° X-Pol	XC-480 (replaces XPC12-80)	11.8	16	50.5 x 12.5 x 7.8
	XC-680 (replaces XPC14-80)	13.2	11	72 x 12.5 x 7.8
	XC-880 (replaces XPC15-80)	14.4	8	96 x 12.5 x 7.8

* As of Feb 1, this is the new dimension for this antenna. Please see specification sheet.

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1710-2170 MHz V-pol	Model	Gain (dBi)	V-Beam	Dimensions (in.)
33°	AMD20-FRO33	20.3	7	50.5 x 12.5 x 7
	AMD22-FRO33	21.8	5	74.5 x 12.5 x 7
45°	AMD16-45	16.6	15	24 x 10 x 4
	AMD19-45	19.3	7	48 x 10 x 4
	AMD20-45	20.9	5	69 x 10 x 4
65°	AMD15-65	14.8	15	24 x 6.7 x 4
	AMD17-65	17.4	7	48 x 6.7 x 4
	AMD19-65	19.3	5	69 x 6.7 x 4
	AMD20-65	20.2	4	91 x 6.7 x 4
80°	AMD17-80	16.5	7	48 x 6.7 x 4
	AMD18-80	18.4	5	69 x 6.7 x 4
	AMD19-80	19.5	4	91 x 6.7 x 4
85°	AMD16-85	16.5	7	48 x 6.7 x 4
	AMD18-85	18.1	5	69 x 6.7 x 4
	AMD19-85	19.4	4	91 x 6.7 x 4
90°	AMD16-90	16.3	7	48 x 6.7 x 4
	AMD18-90	18.1	5	69 x 6.7 x 4
1710-2170 MHz X-pol				
33°	AXP20-FRO33	20.3	7	50.5 x 12.5 x 7
	AXP22-FRO33	21.8	5	74.5 x 12.5 x 7
45°	AXP16-45	16.4	15	24 x 10 x 4
	AXP19-45	19.0	7	48 x 10 x 4
	AXP20-45	20.9	5	69 x 10 x 4
60°	AXP15-60	15.5	15	24 x 6.7 x 4
	AXP18-60	17.8	7	48 x 6.7 x 4
	AXP19-60	19.6	5	69 x 6.7 x 4
	AXP20-60	20.3	4	96 x 6.7 x 4
80°	AXP16-80	16.7	7	48 x 6.7 x 4
	AXP18-80	18.5	5	69 x 6.7 x 4
	AXP19-80	19.7	4	91 x 6.7 x 4
35° & 65°	XGI4-3565	18.9 & 17.4	7	48 x 14.6 x 7
	XGI6-3565	20.5 & 17.8	5	72 x 14.6 x 7
	XGI8-3565	20.6 & 20.0	4	83 x 14.6 x 7
1850-1990 MHz V-pol				
33°	MP20-33	20.2	7	50.5 x 12.5 x 7
	MP22-33	22.0	5	74.5 x 12.5 x 7
45°	MP16-45	16.4	15	24 x 10 x 4
	MP19-45	18.9	7	48 x 10 x 4
	MP20-45	20.4	5	69 x 10 x 4
65°	MP15-65	14.8	15	24 x 6.7 x 4
	MP17-65	17.4	7	48 x 6.7 x 4
	MP19-65	19.0	5	69 x 6.7 x 4
	MP20-65	20.0	4	91 x 6.7 x 4
80°	MD17-80	16.5	7	48 x 6.7 x 4
85°	MP16-85	16.3	7	48 x 6.7 x 4
	MP18-85	18.1	5	69 x 6.7 x 4
	MP19-85	19.3	4	91 x 6.7 x 4
90°	MD16-90	16.0	7	48 x 6.7 x 4
1850-1990 MHz X-pol				
33°	XP20-33	19.5	7	50.5 x 12.5 x 7
45°	XP19-45	18.9	7	48 x 10 x 4
	XP20-45	20.4	5	69 x 10 x 4
60°	XP15-60	15.2	15	24 x 6.7 x 4
	XP18-60	17.8	7	48 x 6.7 x 4
	XP19-60	19.3	5	69 x 6.7 x 4
	XP20-60	20.0	4	91 x 6.7 x 4
80°	XP16-80	16.5	7	48 x 6.7 x 4
	XP18-80	18.3	5	69 x 6.7 x 4
	XP19-80	19.5	4	91 x 6.7 x 4
2496-2690MHz Dual-X-pol with Field Adjust Variable E-tilt				
65°	CSS-XS4-65-R1	17.8	5.2	48 x 6.7 x 4

Filters, Diplexers, Cables and Miscl. Products

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Couplers	C800-2200-10S	800-2200 MHz, 10dB Coupler	2.47 x .69 x 1.25
Notch Filters	CSSTX-NF	A Passband: 869-891.5MHz B Passband: 880-894MHz	20 x 7.65 x 2.9
	BBNF-581001	880-894MHz	10 x 4.5 x 2
Diplexers	DBC-750	824-896 MHz & 1850-1990 MHz	7.0 x 10.5 x 1.9
	DBC-7CAP	see spec sheet for pass bands	7.0 x 10.5 x 1.9
	DBC-7C	see spec sheet for pass bands	
	DBC-AP	see spec sheet for pass bands	
Duplexers	CELL-DUP	869-894MHz & 824-849MHz 6.88 lbs	5.0 x 5.7 x 3.4
	PCS-DUP	1930-1990MHz & 1850-1910MHz 3.78 lbs	4.5 x 5.7 x 2.3
RF Cables	631003-CA	RF Jumper, 1/2" x 6.56' (2.0 meters), DMRA-to-DMRA	6.56 ft.
	631005-CA	RF Jumper, 1/2" x 6.56' (2.0 meters), DM-to-NM	6.56 ft.
	992400-CA005-SC	RF Jumper, 3/8" x 1.64' (.5 meters), DM-to-DM	1.64 ft.
	992400-CA007-SC	RF Jumper, 3/8" x 2.30' (.7 meters), DM-to-DM	2.30 ft.
	992400-CA010-SC	RF Jumper, 3/8" x 3.28' (1.0 meter), DM-to-DM	3.28 ft.
	992500-CA008-SC	RF Jumper, 1/2" x 2.63' (.8 meters), DM-to-DM	2.63 ft.
	992500-CA010-SC	RF Jumper, 1/2" x 3.28' (1.0 meters), DM-to-DM	3.28 ft.
	992500-CA015-SC	RF Jumper, 1/2" x 4.92' (1.5 meters), DM-to-DM	4.92 ft.
	992500-CA020-SC	RF Jumper, 1/2" x 6.56' (2 meters), DM-to-DM	6.56 ft.
	992500-CA060-SC	RF Jumper, 1/2" x 19.69' (6 meters), DM-to-DM	19.69 ft.
AISG Cables	992100-CA005-SC	AISG Jumper Cable (M/F)	0.5 meters
	992100-CA010-SC	AISG Jumper Cable (M/F)	1.0-1.3 meters
	992100-CA020-SC	AISG Jumper Cable (M/F)	2 meters
	992100-CA040-SC	AISG Jumper Cable (M/F)	4 meters
	992100-CA080-SC	AISG Jumper Cable (M/F)	8 meters
	992100-CA120-SC	AISG Jumper Cable (M/F)	12 meters
	992100-CA200-SC	AISG Jumper Cable (M/F)	20 meters
	992100-CA300-SC	AISG Jumper Cable (M/F)	30 meters
	992100-CA400-SC	AISG Jumper Cable (M/F)	40 meters
	992100-CA500-SC	AISG Jumper Cable (M/F)	50 meters
	992100-CA600-SC	AISG Jumper Cable (M/F)	60 meters
	992100-CA700-SC	AISG Jumper Cable (M/F)	70 meters
	992100-CA800-SC	AISG Jumper Cable (M/F)	80 meters
992100-CA900-SC	AISG Jumper Cable (M/F)	90 meters	
992100-CA1000-SC	AISG Jumper Cable (M/F)	100 meters	
BIAS-Ts	BIAST-AISG-PASS-TOP	BIAS-T AISG, top/ant. side (DC pass for use w/TMA) female AISG & DINs, P# 992021	
	BIAST-12V-BOT	BIAS-T 12V bot. use, (use w/TMA when no AISG/RET req'd) fem. SMA & DINs, P# 992020	
	BIAST-AISG-TOP	BIAS-T "Smart" AISG, top/antenna side use, female AISG & DINs, P# 992016	
	BIAST-AISG-BOT	BIAS-T AISG, bot. use, (use w/TMA w/AISG & RETs) male AISG & fem. DINs, P# 992015	
	993027	Connector, 7/16 DIN Male to 7/16 DIN Male Adapter	
Primary Control Unit & AC Adapter, AISG Terminations & Miscl.			
	PCU100	PCU, Primary Control Unit, AISG, Wall or Rack Mt. Opt.	
	AC-Adapter-PCU	AC to +24VDC Adapter	
	992006-VS	AISG Termination Plug	
	993001	DIN Torque Wrench	
In-Line Surge Protectors	SP82500	In-Line Coaxial Surge Protector with M-F 7/16 DINs	