







# Microwave Antennas

## MultiBand Antennas

Frequency GHz	Type Number	Diameter Feet (m)	Band	Regulatory Compliance	Gain, dBi Bottom	Gain, dBi MidiBand	Gain, dBi Top	Beamwidth Degrees	Cross Pol. Disc., dB	F/B dB	VSWR max (R.L., dB)
<b>UMX®</b>  <b>High Performance Multi-Band 4-Port Antennas</b>											
6.425-7.125 GHz and 10.7-11.7 GHz	<b>HPX12-6511C</b>	12 (3.7)	6	B**	43.5	44.0	44.5	0.9	33	70	1.12 (24.9)
			11	A*	47.0	48.0	47.0	0.6	33	72	1.22 (20.1)
<b>HP</b>  <b>High Performance Multi-Band 2 Port Antennas (Single Polarized Each Band, Orthogonal Polarized)</b>											
1.85-1.99 GHz and 6.425-7.125 GHz	<b>HP8-186</b>	8 (2.4)	2	A**	30.4	30.7	31.0	4.3	28	51	1.15 (23.1)
			6.5	A**	41.5	41.9	42.4	1.3	30	69	1.10 (26.4)
1.85-1.99 GHz and 6.425-7.125 GHz	<b>HP10-186</b>	10 (3.0)	2	A**	32.4	32.7	33.0	3.7	28	54	1.15 (23.1)
			6.5	A**	42.7	43.0	43.4	1.0	30	71	1.10 (26.4)
6.425-7.125 GHz and 10.7-11.7 GHz	<b>HP8-6511</b>	8 (2.4)	6	A**	41.6	41.9	42.3	1.3	32	65	1.06 (30.7)
			11	A*	44.3	44.7	45.1	0.8	25	70	1.10 (26.4)
5.925-6.425 GHz and 10.7-11.7 GHz	<b>HP8-611D</b>	8 (2.4)	6	A*	40.9	41.3	41.6	1.4	35	65	1.06 (30.7)
			11	A*	44.3	44.7	45.1	0.8	25	70	1.10 (26.4)
	<b>HP10-611E</b>	10 (3.0)	6	A*	42.7	43.0	43.2	1.1	30	72	1.06 (30.7)
			11	A*	46.1	45.8	46.2	0.7	25	72	1.10 (26.4)
<b>HP12-611F</b>	12 (3.7)	6	A*	44.3	44.7	45.0	0.9	28	72	1.06 (30.7)	
		11	A*	46.9	47.3	47.7	0.5	25	72	1.10 (26.4)	
<b>P</b>  <b>Standard Antennas Multi-band 3-port Antennas (2 GHz Single Polarized, 6 GHz Dual-Polarized)</b>											
1.85-1.99 GHz and 6.425-7.125 GHz	<b>P8-186</b>	8(2.4)	2	A**	30.9	31.2	31.5	4.3	18	39	1.15 (23.1)
			6.5	A**	41.6	42.0	42.5	1.3	30	49	1.10 (26.4)
	<b>P10-186</b>	10 (3.0)	2	A**	32.5	32.8	33.1	3.7	20	42	1.15 (23.1)
			6.5	A**	43.7	44.0	44.4	1.0	30	52	1.10 (26.4)
<b>P</b>  <b>Standard Antennas Multi-band 2-port Antennas (Both Bands Single Polarized, Orthogonal Polarization)</b>											
6.875-7.125 GHz and 12.7-13.25 GHz	<b>P8-6812</b>	8(2.4)	7	A***	42.2	42.4	42.5	1.3	30	53	1.10 (26.4)
			12	B***	44.6	43.1	42.2	1.1	15	54	1.15 (23.1)
	<b>P10-6812</b>	10 (3.0)	7	A***	42.8	43.0	43.1	1.2	30	59	1.10 (26.4)
12			B***	44.7	43.1	40.7	1.1	10	60	1.15 (23.1)	

\* U.S. FCC Part 21

\*\* U.S. FCC Part 94

\*\*\* U.S. FCC Part 74

Note: Part 101 will replace Parts 21 and 94 effective June, 1997.