

Antenna Information									
Manufacturer	Model#	Size (meters)	Antenna Tx gain(db)	Antenna Tx gain (Factor)	Antenna Surface Area (meters^2)	Subreflector (Feed Flange) Diameter (cm)	Area of Feed Flange (cm^2)	Antenna Efficiency	Max Transmit Power (Watts)
VertexRSI	1.2m-QD	1.2	43.2	20893.0	1.131	14.63	168.113	0.6516	8
	1.8m-QD	1.8	46.5	44668.4	2.545	14.63	168.113	0.6191	30
	2.4m-QD	2.4	49.2	83176.4	4.524	14.63	168.113	0.6485	40
	1.2m-RD	1.2	43.2	20893.0	1.131	13.28	138.599	0.6516	8
	1.8m-RD	1.8	46.5	44668.4	2.545	13.28	138.599	0.6191	30
Prodelin	1.2m-series 1123/1125	1.2	43.2	20893.0	1.131	13.28	138.599	0.6516	8
	1.8m-series1184/1185/1194	1.8	46.5	44668.4	2.545	13.28	138.599	0.6191	30
	2.4m-series 1251-1256	2.4	49.2	83176.4	4.524	13.28	138.599	0.6485	40
	3.8m-series 1281-1286	3.8	53.2	208929.6	11.341	13.28	138.599	0.6497	40
Comtech	1.2mQD	1.2	43.3	21379.6	1.131	12.07	114.326	0.6667	8
	1.8m-QD	1.8	46.8	47863.0	2.545	12.07	114.326	0.6634	30

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	1.8m-Fly	1.8	46.7	46773.5	2.545	8.89	62.072	0.6483	30
	2.4m-Fly	2.4	49.7	93325.4	4.524	8.89	62.072	0.7276	40
Patriot	1.2m TXINT-120KU	1.2	43.4	21877.6	1.131	10.44	85.594	0.6823	8
	1.2m TXSNG-120KU	1.2	43.4	21877.6	1.131	10.44	85.594	0.6823	8
	1.8m-TXFCC-180KU	1.8	47	50118.7	2.545	10.44	85.594	0.6947	30
	1.8m TXSNG-180KU	1.8	47	50118.7	2.545	10.44	85.594	0.6947	30
	2.4m TXFCC-240KU	2.4	49.6	91201.1	4.524	10.44	85.594	0.7110	40

Wavelength (meters) (300/14250)	Distance to the Far Field Region (Rf) (meters)	On-Axis Power Density in the Far Field (Wf) (Watts/m^2)	Extent of the Near Field (Rn) (meters)	Near Field Density (Wn) (mWatts/cm^2)	Transition Region Power Density (Tt) (Watts/m^2)	Power Density at Feed Flange (Ws) (mWatts/cm^2)	Power Density at Main Reflector Surface (Wm) (mWatts/cm^2)	Power Density between Reflector and Ground (Wg) (mW/cm^2)
0.021053	41.04	7.8971	17.1000	18.4352	18.4352	190.3477	28.2942	7.0736
		0.7897		1.8435	1.8435		2.8294	0.7074
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	12.5064	38.4750	29.1954	29.1954	713.8040	47.1570	11.7893
		1.2506		2.9195	2.9195		4.7157	1.1789
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	164.16	9.8246	68.4000	22.9350	22.9350	951.7386	35.3678	8.8419
		0.9825		2.2935	2.2935		3.5368	0.8842
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	41.04	7.8971	17.1000	18.4352	18.4352	230.8816	28.2942	7.0736
		0.7897		1.8435	1.8435		2.8294	0.7074
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	12.5064	38.4750	29.1954	29.1954	865.8059	47.1570	11.7893
		1.2506		2.9195	2.9195		4.7157	1.1789
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	41.04	7.8971	17.1000	18.4352	18.4352	230.8816	28.2942	7.0736
		0.7897		1.8435	1.8435		2.8294	0.7074
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	12.5064	38.4750	29.1954	29.1954	865.8059	47.1570	11.7893
		1.2506		2.9195	2.9195		4.7157	1.1789
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	164.16	9.8246	68.4000	22.9350	22.9350	1154.4079	35.3678	8.8419
		0.9825		2.2935	2.2935		3.5368	0.8842
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	411.54	3.9267	171.4750	9.1666	9.1666	1154.4079	14.1079	3.5270
		0.3927		0.9167	0.9167		1.4108	0.3527
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	41.04	8.0810	17.1000	18.8646	18.8646	279.9016	28.2942	7.0736
		0.8081		1.8865	1.8865		2.8294	0.7074
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	13.4008	38.4750	31.2834	31.2834	1049.6311	47.1570	11.7893
		1.3401		3.1283	3.1283		4.7157	1.1789

Wavelength (meters) (300/14250)	Distance to the Far Field Region (Rf) (meters)	On-Axis Power Density in the Far Field (Wf) (Watts/m^2)	Extent of the Near Field (Rn) (meters)	Near Field Density (Wn) (mWatts/cm^2)	Transition Region Power Density (Tt) (Watts/m^2)	Power Density at Feed Flange (Ws) (mWatts/cm^2)	Power Density at Main Reflector Surface (Wm) (mWatts/cm^2)	Power Density between Reflector and Ground (Wg) (mW/cm^2)
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	13.0958	38.4750	30.5713	30.5713	1933.2492	47.1570	11.7893
		1.3096		3.0571	3.0571		4.7157	1.1789
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	164.16	11.0234	68.4000	25.7335	25.7335	2577.6656	35.3678	8.8419
		1.1023		2.5733	2.5733		3.5368	0.8842
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	41.04	8.2692	17.1000	19.3040	19.3040	373.8600	28.2942	7.0736
		0.8269		1.9304	1.9304		2.8294	0.7074
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	41.04	8.2692	17.1000	19.3040	19.3040	373.8600	28.2942	7.0736
		0.8269		1.9304	1.9304		2.8294	0.7074
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	14.0324	38.4750	32.7578	32.7578	1401.9750	47.1570	11.7893
		1.4032		3.2758	3.2758		4.7157	1.1789
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	92.34	14.0324	38.4750	32.7578	32.7578	1401.9750	47.1570	11.7893
		1.4032		3.2758	3.2758		4.7157	1.1789
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2
0.021053	164.16	10.7725	68.4000	25.1477	25.1477	1869.3001	35.3678	8.8419
		1.0772		2.5148	2.5148		3.5368	0.8842
		mWatts/cm^2		mWatts/cm^2	mWatts/cm^2		mWatts/cm^2	mWatts/cm^2