

Amplifier	ASE 176 Ku	ASE 176 X	ASE 174 C	ASE 176 S	ASE 174 U/L	Delta Sigma 400USSP	Delta Sigma 200USSP	Delta Sigma 100USSP
Serial Number	700467	600538	600537	700466	700465	1170-001	1167-2001	1225-016
Band Width (GHz)	12 to 18	8 to 12	4 to 8	2 to 4	1 to 2	0.5 to 1	0.140 to 0.5	0.070 to 0.230
Amp Peak Power (Watts)	2000	2000	1500	2000	2000	400	200	100
Amp Maximum Duty Cycle	6%	6%	4%	6%	4%	10%	10%	10%
*We operate our amp where it is pulsing 300 nanoseconds and then it is off for 9700 nanoseconds.								
Operational Duty Cycle	3%	3%	3%	3%	3%	3%	3%	3%
Operational Avg. Power (Watts)	60	60	45	60	60	12	6	3
*We dwell on a particular frequency for only a small fraction of the operating time. The dwell time ranges from 1/30 to 1/1000 of the operational time per frequency.								
Duty Cycle per frequency	0.003%	0.003%	0.003%	0.006%	0.006%	0.015%	0.003%	0.1%
Avg. Power per Frequency (Watts)	0.06	0.06	0.045	0.12	0.12	0.060	0.030	0.100

Dish Type	Ku Band Truncated Parabolic			X Band Truncated Parabolic			C Band Truncated Parabolic			S Band Truncated Parabolic			L Band Parabolic			L Band Parabolic			UHF Parabolic			VHF Parabolic		
Dish Height (meters)	0.41			0.71			1.07			2.16			4.19			9.02			18.29			10.67		
Diameter (ft)	4.00			6.00			8.00			12.00			15.00			15.00			28.00			60.00		
Vertical Width (ft)	2.00			3.00			4.00			6.00			15.00			15.00			28.00			60.00		
Dish Area (meter^2)	0.71			1.60			2.84			6.40			16.42			16.42			57.21			262.68		
Dish Area (feet^2)	7.65			28.26			30.60			68.84			176.62			176.62			615.43			2825.98		
Feed Efficiency	0.50			0.50			0.50			0.50			0.50			0.50			0.50			0.50		
Frequency (GHz)	18.00	15.00	12.00	12.00	10.00	8.00	8.00	6.00	4.00	4.00	3.00	2.00	2.00	1.50	1.00	1.00	0.75	0.50	0.50	0.32	0.14	0.23	0.15	0.07
Gain (Db)	42	39	40	42	39	40	41	39	35	39	36	33	37	34	31	31	28	25	30	26	19	30	26	20
1/2 Power Beam Width (Deg)	0.9	1.0	1.2	1.0	1.1	1.2	1.3	1.5	2.1	2.1	2.0	2.5	2.5	3.2	4.6	4.9	5.6	8.1	4.7	6.9	9.7	3.4	4.8	9.0

Dish Locations

Elevation = 2490 Above Sea Level

N 34 48.700 W 117 17.900

