

Transmit Bands	Start Freq	Stop Freq	Power @ Amp (Watts)	Power @ Amp (dBm)	Losses to Antenna Feed (dB)	Power @ Antenna (dBW)	Antenna Gain (dBi)
Optus D1	12254.90	12747.10	150	51.76	2.5	19.26	35.15
Optus D2	11702.50	12195.00	125	50.97	2.5	18.47	35.15
PAS11	10682.00	11170.00	110	50.41	2.5	17.91	37.52
Horizons	11702.00	12198.00	90	49.54	2	17.54	36.30
Horizons	12024.00	120156.00	154	51.88	1.75	20.13	36.30
Thor	11202.125	11447.875	55	47.40	2	15.40	38.40
Thor	11768.52	12434.46	150	51.76	2	19.76	33.60
MeaSat	12200	12500	120	50.79	2	18.79	38.40

Receive Bands

PAS11	12732.00	13974.00	0.01	10.00	10	-30.00	15.00
Horizons	14002.00	14498.00	0.01	10.00	10	-30.00	15.00
Thor	13002.125	13234.875	0.01	10.00	10	-30.00	15.00
Thor	17368.52	18034.46	0.01	10.00	10	-30.00	15.00
MeaSat	13750	14250	0.01	10.00	10	-30.00	15.00

Individual Frequencies

CMD

Optus D1	13986.5	0.01	10.00	10	-30.00	15
Optus D1	13990.5	0.01	10.00	10	-30.00	15
Optus D1	13994.5	0.01	10.00	10	-30.00	15
Optus D2	13988.5	0.01	10.00	10	-30.00	15
Optus D2	13992.5	0.01	10.00	10	-30.00	15
Optus D2	13994.5	0.01	10.00	10	-30.00	15
PAS11	13246.5	0.01	10.00	10	-30.00	15.00
PAS11	13995.5	0.01	10.00	10	-30.00	15.00
Horizons	14000.5	0.01	10.00	10	-30.00	15.00
Horizons	14499.5	0.01	10.00	10	-30.00	15.00
Thor	13248.0	0.01	10.00	10	-30.00	15.00
Thor	13249.5	0.01	10.00	10	-30.00	15.00
MeaSat	14000.5	0.01	10.00	10	-30.00	15
MeaSat	14499.5	0.01	10.00	10	-30.00	15
MeaSat	6724.5	0.01	10.00	10	-30.00	15
MeaSat	6722.0	0.01	10.00	10	-30.00	15

TLM

Optus D1	12243.25	10.9	40.37	6	4.37	3
Optus D1	12245.25	10.4	40.17	6	4.17	3
Optus D1	12749.5	1.15	30.61	3	-2.39	13
Optus D2	12243.75	10.9	40.37	6	4.37	3
Optus D2	12245.75	10.4	40.17	6	4.17	3
Optus D2	12200.1	1.15	30.61	3	-2.39	13
PAS11	11448.0	10.5	40.21	5	5.21	3.00
PAS11	11449.0	10.5	40.21	5	5.21	3.00
Horizons	12196.0000	10.5	40.21	5	5.21	3.00
Horizons	12198.6250	10.5	40.21	5	5.21	3.00
Horizons	12198.0000	1	30.00	3	-3.00	13.00

Horizons	11701.5000	1	30.00	3	-3.00	13.00
Thor	11701.0	10.5	40.21	5	5.21	3.00
Thor	11702.0	10.5	40.21	5	5.21	3.00
Thor	11201.0	3.5	35.44	3	2.44	13
MeaSat	12196.0	10.5	40.21	5	5.21	3.00
MeaSat	12198.6	10.5	40.21	5	5.21	3.00

ERP at Antenna (dBW)	ERP minus Absorber_Building (dBW)	Modulation	Modulation Rate (Hz)	Deviation (Hz)	Necessary Bandwidth (MHz)	Antenna Beamwidth (Degrees)
54.41	-15.59	CW	N/A	N/A	1	6
53.62	-16.38	CW	N/A	N/A	1	6
55.43	-14.57	CW	N/A	N/A	1	6
53.84	-16.16	CW	N/A	N/A	1	6
56.43	-13.57	CW	N/A	N/A	1	6
53.80	-16.20	CW	N/A	N/A	1	6
53.36	-16.64	CW	N/A	N/A	1	6
57.19	-12.81	CW	N/A	N/A	1	6
-15.00	-85.00	CW	N/A	N/A	1	30
-15.00	-85.00	CW	N/A	N/A	1	30
-15.00	-85.00	CW	N/A	N/A	1	30
-15.00	-85.00	CW	N/A	N/A	1	30
-15.00	-85.00	CW	N/A	N/A	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
-15.00	-85.00	FM	N/A	400000	1	30
7.37	-62.63	BPSK	4800	N/A	0.3	Omni
7.17	-62.83	BPSK	4800	N/A	0.3	Omni
10.61	-59.39	CW	N/A	N/A	1	35
7.37	-62.63	BPSK	4800	N/A	0.3	Omni
7.17	-62.83	BPSK	4800	N/A	0.3	Omni
10.61	-59.39	CW	N/A	N/A	1	35
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
10.00	-60.00	CW	N/A	N/A	1	Omni

10.00	-60.00	CW	N/A	N/A	1	Omni
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
15.44	-54.56	CW	N/A	N/A	1	35
8.21	-61.79	BPSK	4800	N/A	0.3	Omni
8.21	-61.79	BPSK	4800	N/A	0.3	Omni