

Link Parameters	Units	346KG7W	461KG7W	1M84G7W	8M25G7W
Uplink Frequency	GHz	6.130	6.130	6.130	6.130
Downlink Frequency	GHz	3.905	3.905	3.905	3.905
Carrier Allocated Bandwidth	kHz	346.0	461.0	1840.0	8250.0
Uplink:					
Noise BW (or energy dispersal for TV/FM)	kHz	256	341.3	1365.3	6111.3
Nominal E/S e.i.r.p. per carrier	dBW	48.1	51.0	57.3	62.9
Earth Station Diameter	m	4.5	7.2	11.0	4.5
Earth Station Gain	dBi	47.3	51.4	55.1	47.3
Uplink Input Power per Carrier	dBW	0.8	-0.4	2.2	15.6
Free Space Loss	dB	199.9	199.9	199.9	199.9
G/T Satellite	dB/K	-5.0	-5.0	-5.0	-5.0
C/N Thermal Uplink	dB	17.7	19.4	19.6	18.7
C/I XPOL, ACI, IM, ASI	dB	14.1	15.7	16.0	15.1
C/(N+I) uplink	dB	12.5	14.2	14.4	13.5
Downlink:					
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	9.2	12.1	18.4	23.9
Max e.i.r.p. Density	dBW/4KHz	-5.9	-4.2	-4.0	-5.0
Max PFD	dBW/m2/4kHz	-168.0	-166.3	-166.1	-167.1
Free Space Loss	dB	195.5	195.5	195.5	195.5
Earth Station Diameter	m	3.8	4.5	4.5	3.8
Earth Station Gain	dBi	42.3	43.8	43.8	42.3
Noise Temperature	kHz	95.0	95.0	95.0	95.0
Earth Station G/T	dB/K	22.5	24.0	24.0	22.5
C/N Thermal Downlink	dB	10.7	13.9	14.2	11.7
C/I XPOL, ACI, IM, ASI	dB	13.5	16.6	16.9	14.4
C/(N+I) downlink	dB	8.9	12.0	12.3	9.8
Adjacent satellite interference:					
uplink input power dens @ 2 deg	dBW/Hz	-44	-44	-44	-44
downlink eirp dens @ 2 deg	dBW/Hz	-37	-37	-37	-37
C/I up	dB	17.07	18.72	19.00	18.09
C/I dn	dB	16.47	19.62	19.90	17.39
Aggregate C/I up	dB	14.07	15.72	16.00	15.09
Aggregate C/I dn	dB	13.47	16.62	16.90	14.39
Overall:					
C/(N+I) overall	dB	7.3	10.0	10.2	8.3
C/(N+I) required	dB	6.0	9.3	9.3	6.9
System Margin	dB	1.3	0.7	0.9	1.4

72M0G7W	36M0F3F
6.130	6.130
3.905	3.905
72000.0	36000.0
63330	2000.0
79.0	70.8
13.0	13.0
56.6	56.6
22.4	14.2
199.9	199.9
-4.0	-3.5
25.7	20.4
21.0	15.8
19.8	14.5
34.0	33.6
-5.0	9.6
-167.1	-152.5
195.5	196.2
6.3	4.5
47.1	43.8
95.0	95.0
27.3	24.0
16.4	14.5
19.1	18.9
14.6	13.1
-44	-44.5
-37	-38
24.04	18.79
22.14	21.89
21.04	15.79
19.14	18.89
13.4	10.8
12.7	10.0
0.7	0.8