

Link Parameters	Units	346KG7W	461KG7W	1M84G7W	8M25G7W
Uplink Frequency	GHz	6.280	6.280	6.280	6.280
Downlink Frequency	GHz	4.055	4.055	4.055	4.055
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	52.5	55.0	63.6	67.3
Earth Station Diameter	m	4.5	7.2	11.0	4.5
Earth Station Gain	dBi	47.5	51.6	55.3	47.5
Uplink Input Power per Carrier	dBW	5.0	3.4	8.3	19.8
Free Space Loss	dB	200.2	200.2	200.2	200.2
G/T Satellite	dB/K	-8.0	-8.0	-8.0	-8.0
C/N Thermal Uplink	dB	18.8	20.1	22.6	19.8
C/I XPOL, ACI, IM, ASI	dB	18.5	19.7	22.3	19.5
C/(N+I) uplink	dB	15.6	16.9	19.5	16.7
Downlink:					
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	8.5	11.1	19.6	23.3
Max e.i.r.p. Density	dBW/4KHz	-6.6	-5.2	-2.8	-5.6
Max PFD	dBW/m2/4kHz	-168.7	-167.3	-164.9	-167.7
Free Space Loss	dB	196.8	196.8	196.8	196.8
Earth Station Diameter	m	4.5	6.3	4.5	4.5
Earth Station Gain	dBi	43.8	46.8	43.8	43.8
Noise Temperature	kHz	95.0	95.0	95.0	95.0
Earth Station G/T	dB/K	24.0	27.0	24.0	24.0
C/N Thermal Downlink	dB	10.2	14.6	14.1	11.3
C/I XPOL, ACI, IM, ASI	dB	14.3	18.6	18.1	15.3
C/(N+I) downlink	dB	8.8	13.1	12.6	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	21.47	22.72	25.30	22.49
C/I dn	dB	17.27	21.62	21.10	18.29
Aggregate C/I up	dB	18.47	19.72	22.30	19.49
Aggregate C/I dn	dB	14.27	18.62	18.10	15.29
Overall:					
C/(N+I) overall	dB	8.0	11.6	11.8	9.0
C/(N+I) required	dB	6.0	9.3	9.3	6.9
System Margin	dB	2.0	2.3	2.5	2.1

36M0G7W	36M0F3F
6.280	6.280
4.055	4.055
36000.0	36000.0
30000	2000.0
81.9	74.1
13.0	13.0
56.8	56.3
25.1	17.8
200.2	199.9
-8.0	-8.0
27.5	19.2
27.2	19.6
24.3	16.4
30.9	30.9
-4.9	6.9
-167.0	-155.2
196.8	196.8
3.8	6.3
42.4	46.9
95.0	95.0
22.6	27.1
10.6	14.3
14.6	19.3
9.1	13.1
-44	-45
-37	-38
30.18	22.59
17.58	22.29
27.18	19.59
14.58	19.29
9.0	11.4
6.9	10.0
2.1	1.4