

Link Parameters	Units	346KG7W	461KG7W	1M84G7W	8M25G7W
Uplink Frequency	GHz	6.28	6.28	6.28	6.28
Downlink Frequency	GHz	4.055	4.055	4.055	4.055
Carrier Allocated Bandwidth	kHz	346	461	1840	8250
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	52.6	55.1	64.4	67.3
Earth Station Diameter	m	7.2	4.5	11	7.2
Earth Station Gain	dBi	51.6	47.5	55.3	51.6
Uplink Input Power per Carrier	dBW	1	7.6	9.1	15.7
Free Space Loss	dB	200.6	200.6	200.6	200.6
G/T Satellite	dB/K	-11.5	-11.5	-11.5	-11.5
C/N Thermal Uplink	dB	15	16.3	19.5	15.9
C/I XPOL, ACI, IM, ASI	dB	18.6	19.8	23.1	19.5
C/(N+I) uplink	dB	13.4	14.7	18	14.4
Downlink:					
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	8.4	10.8	20.2	23.1
Max e.i.r.p. Density	dBW/4kHz	-6.7	-5.5	-2.2	-5.8
Max PFD	dBW/m2/4kHz	-168.8	-167.6	-164.3	-167.9
Free Space Loss	dB	196.8	196.8	196.8	196.8
Earth Station Diameter	m	4.5	6.3	3.8	4.5
Earth Station Gain	dBi	43.8	46.9	42.4	43.8
Noise Temperature	kHz	95	95	95	95
Earth Station G/T	dB/K	24	27.1	22.6	24
C/N Thermal Downlink	dB	10.1	14.4	13.3	11.1
C/I XPOL, ACI, IM, ASI	dB	14.2	18.4	17.3	15.1
C/(N+I) downlink	dB	8.7	12.9	11.8	9.6
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	21.57	22.82	26.1	22.49
C/I dn	dB	17.17	21.42	20.3	18.09
Aggregate C/I up	dB	18.57	19.82	23.1	19.49
Aggregate C/I dn	dB	14.17	18.42	17.3	15.09
Overall:					
C/(N+I) overall	dB	7.4	10.7	10.9	8.4
C/(N+I) required	dB	6	9.3	9.3	6.9
System Margin	dB	1.4	1.4	1.6	1.5

36M0G7W 36M0F3F

6.28	6.28
4.055	4.055
36000	36000
30000	2000
80.7	78.6
13	13
56.7	56.8
24	21.8
200.6	200.6
-11.5	-9.5
22.4	21.5
26	23.1
20.8	19.2
30.8	30.4
-5	6.4
-167.1	-155.7
196.8	196.8
3.8	6.3
42.4	46.9
95	95
22.6	27.1
10.5	13.8
14.5	17.8
9	12.3
-44	-44
-37	-37
28.98	26.09
17.48	20.79
25.98	23.09
14.48	17.79
8.7	11.5
6.9	10
1.8	1.5