

Link Parameters	Units	346KG7W	461KG7W	1M84G7W	8M25G7W
Uplink Frequency	GHz	6.050	6.050	6.050	6.050
Downlink Frequency	GHz	3.825	3.825	3.825	3.825
Carrier Allocated Bandwidth	kHz	346.0	461.0	1840.0	8250.0
<b>Uplink:</b>					
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	49.6	52.2	58.2	63.4
Earth Station Diameter	m	4.5	7.2	11.0	4.5
Earth Station Gain	dBi	47.2	51.3	55.0	47.2
Uplink Input Power per Carrier	dBW	2.4	0.9	3.2	16.2
Free Space Loss	dB	199.8	199.9	199.9	199.9
G/T Satellite	dB/K	-8.0	-8.0	-8.0	-8.0
C/N Thermal Uplink	dB	16.3	17.6	17.5	16.2
C/I XPOL, ACI, IM, ASI	dB	15.6	16.9	16.9	15.6
C/(N+I) uplink	dB	12.9	14.2	14.2	12.9
<b>Downlink:</b>					
Satellite e.i.r.p. per carrier (-5dB contour)	dBW	11.0	13.6	19.6	24.8
Max e.i.r.p. Density	dBW/4KHz	-2.1	-0.7	-0.8	-2.1
Max PFD	dBW/m2/4kHz	-164.2	-162.8	-162.9	-164.2
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	22.6	24.0	24.0	22.5
C/N Thermal Downlink	dB	12.6	15.4	15.4	12.5
C/I XPOL, ACI, IM, ASI	dB	15.3	18.1	18.1	15.3
C/(N+I) downlink	dB	10.7	13.5	13.5	10.7
<b>Adjacent satellite interference:</b>					
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	18.57	19.92	19.90	18.59
C/I dn	dB	18.27	21.12	21.10	18.29
Aggregate C/I up	dB	15.57	16.92	16.90	15.59
Aggregate C/I dn	dB	15.27	18.12	18.10	15.29
<b>Overall:</b>					
C/(N+I) overall	dB	8.7	10.9	10.8	8.6
C/(N+I) required	dB	6.0	9.3	9.3	6.9
System Margin	dB	2.7	1.6	1.5	1.7

<b>36M0G7W</b>	<b>36M0F3F</b>
6.280	6.050
4.055	3.825
36000.0	36000.0
30000	2000.0
77.0	73.1
13.0	13.0
56.8	56.3
20.2	16.8
200.6	199.9
-11.5	-7.0
18.7	19.2
22.3	17.6
17.1	15.3
33.6	33.3
-0.2	11.3
-162.3	-150.8
196.0	195.5
3.8	4.5
42.3	43.8
95.0	95.0
22.5	24.0
14.0	14.9
17.2	17.6
12.3	13.0
-44	-44
-37	-37
25.28	20.59
20.18	20.59
22.28	17.59
17.18	17.59
11.0	11.0
6.9	10.0
4.1	1.0