

<b>Link Parameters</b>	<b>Units</b>	<b>346KG7W</b>	<b>461KG7W</b>	<b>1M84G7W</b>	<b>8M25G7W</b>
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 (-3dB contour)	dBW	11.0	13.6	19.6	24.8
Max e.i.r.p. Density	dBW/4KHz	-4.1	-2.7	-2.8	-4.1
Max PFD	dBW/m2/4kHz	-166.2	-164.8	-164.9	-166.2
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	-44.00	-44.00	-44.00	-44.00
downlink eirp dens @ 2 deg	dBW/Hz	-37.00	-37.00	-37.00	-37.00
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>72M0G7W</b>	<b>36M0F3F</b>
6.050	6.050
3.825	3.825
72000.0	36000.0
63330	2000.0
80.9	73.1
13.0	13.0
56.4	56.3
24.5	16.8
199.9	199.9
-7.0	-7.0
24.6	19.2
22.9	17.6
20.7	15.3
34.3	33.3
-4.7	9.3
-166.8	-152.8
195.5	195.5
6.3	4.5
46.8	43.8
95.0	95.0
27.0	24.0
16.4	14.9
19.1	17.6
14.6	13.0
-44.00	-44.00
-37.00	-37.00
25.94	20.59
22.14	20.59
22.94	17.59
19.14	17.59
13.6	11.0
12.7	10.0
0.9	1.0