

Link Parameters	Units	346KG7W	461KG7W	1M84G7W	8M25G7W
Uplink Frequency	GHz	6.050	6.050	6.050	6.050
Downlink Frequency	GHz	11.830	11.830	11.830	11.830
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	48.9	50.6	56.7	63.7
Earth Station Diameter	m	3.8	4.5	4.5	9.0
Earth Station Gain	dBi	45.8	47.2	47.3	53.4
Uplink Input Power per Carrier	dBW	3.1	3.4	9.4	10.3
Free Space Loss	dB	199.8	199.8	199.8	199.8
G/T Satellite	dB/K	-5.0	-5.0	-5.0	-5.0
C/N Thermal Uplink	dB	18.6	19.1	19.1	19.6
C/I XPOL, ACI, IM, ASI	dB	14.9	15.3	15.4	15.9
C/(N+I) uplink	dB	13.3	13.8	13.9	14.4
Downlink:					
Satellite e.i.r.p. per carrier (-5dB contour)	dBW	20.2	21.9	27.9	34.9
Max e.i.r.p. Density	dBW/4KHz	7.1	7.6	7.5	8.0
Max PFD	dBW/m2/4kHz	-155.0	-154.5	-154.6	-154.1
Free Space Loss	dB	206.1	206.1	206.1	206.1
Earth Station Diameter	m	2.4	3.7	3.7	2.4
Earth Station Gain	dBi	48.0	51.7	51.7	48.0
Noise Temperature	kHz	160.0	160.0	160.0	160.0
Earth Station G/T	dB/K	26.0	29.7	29.7	26.0
C/N Thermal Downlink	dB	14.6	18.7	18.7	15.5
C/I XPOL, ACI, IM, ASI	dB	19.2	23.3	23.3	20.1
C/(N+I) downlink	dB	13.3	17.4	17.4	14.2
Adjacent satellite interference:					
uplink input power dens @ 2 deg	dBW/Hz	-44	-44	-44	-44
downlink eirp dens @ 2 deg	dBW/Hz	-26	-26	-26	-26
C/I up	dB	17.87	18.32	18.40	18.89
C/I dn	dB	22.17	26.32	26.30	23.09
Aggregate C/I up	dB	14.87	15.32	15.40	15.89
Aggregate C/I dn	dB	19.17	23.32	23.30	20.09
Overall:					
C/(N+I) overall	dB	10.3	12.2	12.3	11.3
C/(N+I) required	dB	6.0	9.3	9.3	6.9
System Margin	dB	4.3	2.9	3.0	4.4

72M0G7W	36M0F3F
6.050	6.050
11.830	11.830
72000.0	36000.0
63330	2000.0
80.7	69.6
9.0	9.0
53.2	53.2
27.5	16.4
199.8	199.8
-5.0	-5.0
26.5	17.8
22.7	19.1
21.2	15.4
44.8	36.2
7.8	14.2
-154.3	-147.9
206.1	206.1
4.5	5.6
53.4	54.6
160.0	160.0
31.4	32.6
20.6	15.7
25.2	22.3
19.3	14.8
-44	-49
-26	-28
25.74	22.09
28.24	25.29
22.74	19.09
25.24	22.29
17.2	12.1
12.7	10.0
4.5	2.1