

| 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 |