

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|--------------|----------------|----------------|----------------|----------------|
| Uplink Frequency | GHz | 14.125 | 14.125 | 14.125 | 14.125 |
| 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 | 55.5 | 58.0 | 64.1 | 68.2 |
| Earth Station Diameter | m | 4.5 | 3.7 | 11.0 | 4.5 |
| Earth Station Gain | dBi | 54.5 | 52.8 | 62.4 | 54.5 |
| Uplink Input Power per Carrier | dBW | 1.0 | 5.2 | 1.7 | 13.7 |
| Free Space Loss | dB | 207.5 | 207.5 | 207.5 | 207.5 |
| G/T Satellite | dB/K | 4.0 | 4.0 | 4.0 | 4.0 |
| C/N Thermal Uplink | dB | 26.5 | 27.8 | 27.8 | 25.4 |
| C/I XPOL, ACI, IM, ASI | dB | 27.5 | 28.7 | 28.8 | 26.4 |
| C/(N+I) uplink | dB | 24.0 | 25.2 | 25.3 | 22.9 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-4dB contour) | dBW | 22.5 | 25.0 | 31.1 | 35.2 |
| Max e.i.r.p. Density | dBW/4KHz | 8.4 | 9.7 | 9.7 | 7.3 |
| Max PFD | dBW/m2/4kHz | -153.7 | -152.4 | -152.4 | -154.8 |
| Free Space Loss | dB | 206.1 | 206.1 | 206.1 | 206.1 |
| Earth Station Diameter | m | 1.8 | 2.4 | 2.4 | 2.4 |
| Earth Station Gain | dBi | 45.3 | 47.8 | 47.8 | 47.8 |
| Noise Temperature | kHz | 160.0 | 160.0 | 160.0 | 160.0 |
| Earth Station G/T | dB/K | 23.3 | 25.8 | 25.8 | 25.8 |
| C/N Thermal Downlink | dB | 14.2 | 17.9 | 18.0 | 15.6 |
| C/I XPOL, ACI, IM, ASI | dB | 18.8 | 22.5 | 22.6 | 20.2 |
| C/(N+I) downlink | dB | 12.9 | 16.6 | 16.7 | 14.3 |
| Adjacent satellite interference: | | | | | |
| uplink input power dens @ 2 deg | dBW/Hz | -50 | -50 | -50 | -50 |
| downlink eirp dens @ 2 deg | dBW/Hz | -26 | -26 | -26 | -26 |
| C/I up | dB | 30.47 | 31.72 | 31.80 | 29.39 |
| C/I dn | dB | 21.77 | 25.52 | 25.60 | 23.19 |
| Aggregate C/I up | dB | 27.47 | 28.72 | 28.80 | 26.39 |
| Aggregate C/I dn | dB | 18.77 | 22.52 | 22.60 | 20.19 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 12.6 | 16.1 | 16.1 | 13.7 |
| C/(N+I) required | dB | 6.0 | 9.3 | 9.3 | 6.9 |
| System Margin | dB | 6.6 | 6.8 | 6.8 | 6.8 |

| 72M0G7W | 36M0F3F |
|----------------|----------------|
| 14.125 | 14.125 |
| 11.830 | 11.830 |
| 72000.0 | 36000.0 |
| | |
| 63330 | 2000.0 |
| 82.9 | 78.4 |
| 13.0 | 13.0 |
| 62.4 | 63.9 |
| 20.5 | 14.5 |
| 207.5 | 207.5 |
| 4.0 | 4.0 |
| 30.0 | 27.9 |
| 30.9 | 28.9 |
| 27.4 | 25.4 |
| | |
| 47.9 | 37.1 |
| 9.9 | 14.1 |
| -152.2 | -148.0 |
| 206.1 | 205.6 |
| 3.7 | 4.5 |
| 51.6 | 52.5 |
| 160.0 | 160.0 |
| 29.6 | 30.5 |
| 21.9 | 15.0 |
| 26.5 | 19.1 |
| 20.6 | 13.6 |
| | |
| -50 | -50 |
| -26 | -26 |
| 33.94 | 31.89 |
| 29.54 | 22.09 |
| 30.94 | 28.89 |
| 26.54 | 19.09 |
| | |
| 19.8 | 13.3 |
| 12.7 | 10.0 |
| 7.1 | 3.3 |