

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|--------------|----------------|----------------|----------------|----------------|
| Uplink Frequency | GHz | 14.125 | 14.125 | 14.125 | 14.125 |
| Downlink Frequency | GHz | 3.825 | 3.825 | 3.825 | 3.825 |
| 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 | 49.2 | 51.0 | 57.0 | 62.7 |
| Earth Station Diameter | m | 1.8 | 2.4 | 3.7 | 1.8 |
| Earth Station Gain | dBi | 49.5 | 49.1 | 52.8 | 46.5 |
| Uplink Input Power per Carrier | dBW | -0.3 | 1.9 | 4.2 | 16.2 |
| Free Space Loss | dB | 207.6 | 207.6 | 207.6 | 207.6 |
| G/T Satellite | dB/K | 5.0 | 5.0 | 5.0 | 5.0 |
| C/N Thermal Uplink | dB | 21.1 | 21.7 | 21.6 | 20.8 |
| C/I XPOL, ACI, IM, ASI | dB | 21.2 | 21.7 | 21.7 | 20.9 |
| C/(N+I) uplink | dB | 18.1 | 18.7 | 18.7 | 17.9 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-6dB contour) | dBW | 10.8 | 12.6 | 18.7 | 24.3 |
| Max e.i.r.p. Density | dBW/4KHz | -1.3 | -0.7 | -0.7 | -1.6 |
| Max PFD | dBW/m2/4kHz | -163.4 | -162.8 | -162.8 | -163.7 |
| Free Space Loss | dB | 195.8 | 195.8 | 195.8 | 195.8 |
| Earth Station Diameter | m | 3.8 | 5.6 | 5.6 | 4.5 |
| Earth Station Gain | dBi | 42.4 | 45.9 | 45.9 | 43.8 |
| Noise Temperature | kHz | 95.0 | 95.0 | 95.0 | 95.0 |
| Earth Station G/T | dB/K | 22.6 | 26.1 | 26.1 | 24.0 |
| C/N Thermal Downlink | dB | 12.1 | 16.2 | 16.3 | 13.3 |
| C/I XPOL, ACI, IM, ASI | dB | 15.2 | 19.2 | 19.3 | 16.3 |
| C/(N+I) downlink | dB | 10.4 | 14.4 | 14.5 | 11.5 |
| Adjacent satellite interference: | | | | | |
| uplink input power dens @ 2 deg | dBW/Hz | -50 | -50 | -50 | -50 |
| downlink eirp dens @ 2 deg | dBW/Hz | -37 | -37 | -37 | -37 |
| C/I up | dB | 24.17 | 24.72 | 24.70 | 23.89 |
| C/I dn | dB | 18.17 | 22.22 | 22.30 | 19.29 |
| Aggregate C/I up | dB | 21.17 | 21.72 | 21.70 | 20.89 |
| Aggregate C/I dn | dB | 15.17 | 19.22 | 19.30 | 16.29 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 9.7 | 13.1 | 13.1 | 10.6 |
| C/(N+I) required | dB | 6.0 | 9.3 | 9.3 | 6.9 |
| System Margin | dB | 3.7 | 3.8 | 3.8 | 3.7 |

| 72M0G7W | 36M0F3F |
|----------------|----------------|
| 14.125 | 14.125 |
| 3.825 | 3.825 |
| 72000.0 | 36000.0 |
| | |
| 63330 | 2000.0 |
| 79.1 | 70.8 |
| 4.5 | 5.6 |
| 54.5 | 56.5 |
| 24.6 | 14.3 |
| 207.6 | 207.6 |
| 5.0 | 5.0 |
| 27.1 | 21.2 |
| 27.1 | 21.3 |
| 24.1 | 18.3 |
| | |
| 31.0 | 28.8 |
| -5.0 | 7.8 |
| -167.1 | -154.3 |
| 195.8 | 195.8 |
| 9.0 | 9.0 |
| 50.0 | 50.0 |
| 95.0 | 95.0 |
| 30.2 | 30.2 |
| 16.0 | 16.3 |
| 19.0 | 19.3 |
| 14.3 | 14.5 |
| | |
| -50 | -50 |
| -37 | -37 |
| 30.14 | 24.29 |
| 22.04 | 22.29 |
| 27.14 | 21.29 |
| 19.04 | 19.29 |
| | |
| 13.8 | 13.0 |
| 12.7 | 10.0 |
| 1.1 | 3.0 |