

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|--------------|----------------|----------------|----------------|----------------|
| 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 |
| 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 | 49.6 | 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 |
| Downlink: | | | | | |
| 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 |
| Adjacent satellite interference: | | | | | |
| 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 |
| Overall: | | | | | |
| 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 |

| 72M0G7W | 36M0F3F |
|----------------|----------------|
| 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 |