

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|-------------|---------|---------|---------|---------|
| Uplink Frequency | GHz | 6.130 | 6.130 | 6.130 | 6.130 |
| Downlink Frequency | GHz | 11.910 | 11.910 | 11.910 | 11.910 |
| 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 | 50.8 | 52.5 | 58.5 | 65.2 |
| Earth Station Diameter | m | 3.8 | 4.5 | 4.5 | 9.0 |
| Earth Station Gain | dBi | 45.8 | 47.3 | 47.3 | 53.4 |
| Uplink Input Power per Carrier | dBW | 5.0 | 5.2 | 11.2 | 11.8 |
| Free Space Loss | dB | 200.0 | 200.0 | 200.0 | 200.0 |
| G/T Satellite | dB/K | -8.0 | -8.0 | -8.0 | -8.0 |
| C/N Thermal Uplink | dB | 17.3 | 17.8 | 17.7 | 17.9 |
| C/I XPOL, ACI, IM, ASI | dB | 16.8 | 17.2 | 17.2 | 17.4 |
| C/(N+I) uplink | dB | 14.0 | 14.5 | 14.5 | 14.6 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-5dB contour) | dBW | 20.9 | 22.7 | 28.7 | 35.3 |
| Max e.i.r.p. Density | dBW/4KHz | 7.8 | 8.4 | 8.3 | 8.4 |
| Max PFD | dBW/m2/4kHz | -154.3 | -153.7 | -153.8 | -153.7 |
| Free Space Loss | dB | 206.2 | 206.2 | 206.2 | 206.2 |
| 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 | 15.2 | 19.4 | 19.4 | 15.8 |
| C/I XPOL, ACI, IM, ASI | dB | 19.9 | 24.1 | 24.1 | 20.5 |
| C/(N+I) downlink | dB | 13.9 | 18.2 | 18.1 | 14.5 |
| 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 | 19.77 | 20.22 | 20.20 | 20.39 |
| C/I dn | dB | 22.87 | 27.12 | 27.10 | 23.49 |
| Aggregate C/I up | dB | 16.77 | 17.22 | 17.20 | 17.39 |
| Aggregate C/I dn | dB | 19.87 | 24.12 | 24.10 | 20.49 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 11.0 | 12.9 | 12.9 | 11.6 |
| C/(N+I) required | dB | 6.0 | 9.3 | 9.3 | 6.9 |
| System Margin | dB | 5.0 | 3.6 | 3.6 | 4.7 |

| 72M0G7W | 36M0F3F |
|----------------|----------------|
| 6.130 | 6.130 |
| 11.910 | 11.910 |
| 72000.0 | 36000.0 |
| | |
| 63330 | 2000.0 |
| 81.9 | 74.0 |
| 9.0 | 9.0 |
| 53.4 | 53.4 |
| 28.5 | 20.6 |
| 200.0 | 200.0 |
| -8.0 | -8.0 |
| 24.5 | 19.0 |
| 23.9 | 22.5 |
| 21.2 | 17.4 |
| | |
| 45.0 | 36.2 |
| 8.0 | 14.2 |
| -154.1 | -147.9 |
| 206.2 | 206.2 |
| 4.5 | 5.6 |
| 53.4 | 54.6 |
| 160.0 | 160.0 |
| 31.4 | 32.6 |
| 20.7 | 15.6 |
| 25.4 | 22.3 |
| 19.5 | 14.8 |
| | |
| -44 | -48 |
| -26 | -28 |
| 26.94 | 25.49 |
| 28.44 | 25.29 |
| 23.94 | 22.49 |
| 25.44 | 22.29 |
| | |
| 17.2 | 12.9 |
| 12.7 | 10.0 |
| 4.5 | 2.9 |