

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|-------------|---------|---------|---------|---------|
| Uplink Frequency | GHz | 6.280 | 6.280 | 6.280 | 6.280 |
| Downlink Frequency | GHz | 4.055 | 4.055 | 4.055 | 4.055 |
| 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 | 52.5 | 55.0 | 63.6 | 67.3 |
| Earth Station Diameter | m | 4.5 | 7.2 | 11.0 | 4.5 |
| Earth Station Gain | dBi | 47.5 | 51.6 | 55.3 | 47.5 |
| Uplink Input Power per Carrier | dBW | 5.0 | 3.4 | 8.3 | 19.8 |
| Free Space Loss | dB | 200.2 | 200.2 | 200.2 | 200.2 |
| G/T Satellite | dB/K | -8.0 | -8.0 | -8.0 | -8.0 |
| C/N Thermal Uplink | dB | 18.8 | 20.1 | 22.6 | 19.8 |
| C/I XPOL, ACI, IM, ASI | dB | 18.5 | 19.7 | 22.3 | 19.5 |
| C/(N+I) uplink | dB | 15.6 | 16.9 | 19.5 | 16.7 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-3dB contour) | dBW | 8.5 | 11.1 | 19.6 | 23.3 |
| Max e.i.r.p. Density | dBW/4KHz | -6.6 | -5.2 | -2.8 | -5.6 |
| Max PFD | dBW/m2/4kHz | -168.7 | -167.3 | -164.9 | -167.7 |
| Free Space Loss | dB | 196.8 | 196.8 | 196.8 | 196.8 |
| Earth Station Diameter | m | 4.5 | 6.3 | 4.5 | 4.5 |
| Earth Station Gain | dBi | 43.8 | 46.8 | 43.8 | 43.8 |
| Noise Temperature | kHz | 95.0 | 95.0 | 95.0 | 95.0 |
| Earth Station G/T | dB/K | 24.0 | 27.0 | 24.0 | 24.0 |
| C/N Thermal Downlink | dB | 10.2 | 14.6 | 14.1 | 11.3 |
| C/I XPOL, ACI, IM, ASI | dB | 14.3 | 18.6 | 18.1 | 15.3 |
| C/(N+I) downlink | dB | 8.8 | 13.1 | 12.6 | 9.8 |
| Adjacent satellite interference: | | | | | |
| uplink input power dens @ 2 deg | dBW/Hz | -44 | -44 | -44 | -44 |
| downlink eirp dens @ 2 deg | dBW/Hz | -37 | -37 | -37 | -37 |
| C/I up | dB | 21.47 | 22.72 | 25.30 | 22.49 |
| C/I dn | dB | 17.27 | 21.62 | 21.10 | 18.29 |
| Aggregate C/I up | dB | 18.47 | 19.72 | 22.30 | 19.49 |
| Aggregate C/I dn | dB | 14.27 | 18.62 | 18.10 | 15.29 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 8.0 | 11.6 | 11.8 | 9.0 |
| C/(N+I) required | dB | 6.0 | 9.3 | 9.3 | 6.9 |
| System Margin | dB | 2.0 | 2.3 | 2.5 | 2.1 |

| 36M0G7W | 36M0F3F |
|----------------|----------------|
| 6.280 | 6.280 |
| 4.055 | 4.055 |
| 36000.0 | 36000.0 |
| | |
| 30000 | 2000.0 |
| 81.9 | 74.1 |
| 13.0 | 13.0 |
| 56.8 | 56.3 |
| 25.1 | 17.8 |
| 200.2 | 199.9 |
| -8.0 | -8.0 |
| 27.5 | 19.2 |
| 27.2 | 19.6 |
| 24.3 | 16.4 |
| | |
| 30.9 | 30.9 |
| -4.9 | 6.9 |
| -167.0 | -155.2 |
| 196.8 | 196.8 |
| 3.8 | 6.3 |
| 42.4 | 46.9 |
| 95.0 | 95.0 |
| 22.6 | 27.1 |
| 10.6 | 14.3 |
| 14.6 | 19.3 |
| 9.1 | 13.1 |
| | |
| -44 | -45 |
| -37 | -38 |
| 30.18 | 22.59 |
| 17.58 | 22.29 |
| 27.18 | 19.59 |
| 14.58 | 19.29 |
| | |
| 9.0 | 11.4 |
| 6.9 | 10.0 |
| 2.1 | 1.4 |