

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|--------------|----------------|----------------|----------------|----------------|
| Uplink Frequency | GHz | 14.205 | 14.205 | 14.205 | 14.205 |
| Downlink Frequency | GHz | 3.905 | 3.905 | 3.905 | 3.905 |
| 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 | 51.1 | 57.7 | 63.4 |
| Earth Station Diameter | m | 1.8 | 2.4 | 3.7 | 2.4 |
| Earth Station Gain | dBi | 49.6 | 49.1 | 52.9 | 49.1 |
| Uplink Input Power per Carrier | dBW | 0.0 | 2.0 | 4.8 | 14.3 |
| Free Space Loss | dB | 207.7 | 207.7 | 207.7 | 207.7 |
| G/T Satellite | dB/K | 5.0 | 5.0 | 5.0 | 5.0 |
| C/N Thermal Uplink | dB | 21.4 | 21.7 | 22.2 | 21.4 |
| C/I XPOL, ACI, IM, ASI | dB | 21.6 | 21.8 | 22.4 | 21.6 |
| C/(N+I) uplink | dB | 18.5 | 18.7 | 19.3 | 18.5 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-5dB contour) | dBW | 10.6 | 12.2 | 18.7 | 24.4 |
| Max e.i.r.p. Density | dBW/4KHz | -2.5 | -2.1 | -1.7 | -2.5 |
| Max PFD | dBW/m2/4kHz | -164.6 | -164.2 | -163.8 | -164.6 |
| Free Space Loss | dB | 196.1 | 196.1 | 196.1 | 196.1 |
| 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 | 11.6 | 15.5 | 16.0 | 13.1 |
| C/I XPOL, ACI, IM, ASI | dB | 15.0 | 18.8 | 19.3 | 16.4 |
| C/(N+I) downlink | dB | 10.0 | 13.8 | 14.3 | 11.4 |
| 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 | 24.57 | 24.82 | 25.40 | 24.59 |
| C/I dn | dB | 17.97 | 21.82 | 22.30 | 19.39 |
| Aggregate C/I up | dB | 21.57 | 21.82 | 22.40 | 21.59 |
| Aggregate C/I dn | dB | 14.97 | 18.82 | 19.30 | 16.39 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 9.4 | 12.6 | 13.1 | 10.6 |
| C/(N+I) required | dB | 6.0 | 9.3 | 9.3 | 6.9 |
| System Margin | dB | 3.4 | 3.3 | 3.8 | 3.7 |

| 72M0G7W | 36M0F3F |
|----------------|----------------|
| 14.205 | 14.205 |
| 3.905 | 3.905 |
| 72000.0 | 36000.0 |
| | |
| 63330 | 2000.0 |
| 80.6 | 72.4 |
| 5.6 | 5.6 |
| 56.5 | 56.5 |
| 24.1 | 15.9 |
| 207.7 | 207.7 |
| 5.0 | 5.0 |
| 28.5 | 22.7 |
| 28.6 | 22.9 |
| 25.6 | 19.8 |
| | |
| 32.0 | 28.4 |
| -5.0 | 6.4 |
| -167.1 | -155.7 |
| 196.1 | 196.1 |
| 9.0 | 9.0 |
| 50.0 | 50.0 |
| 95.0 | 95.0 |
| 30.2 | 30.2 |
| 16.7 | 15.6 |
| 20.0 | 18.9 |
| 15.1 | 13.9 |

| | |
|-------|-------|
| -50 | -50 |
| -37 | -37 |
| 31.64 | 25.89 |
| 23.04 | 21.89 |
| 28.64 | 22.89 |
| 20.04 | 18.89 |
| | |
| 14.7 | 12.9 |
| 12.7 | 10.0 |
| 2.0 | 2.9 |