

| Link Parameters | Units | 346KG7W | 461KG7W | 1M84G7W | 8M25G7W |
|---|-------------|---------|---------|---------|---------|
| Uplink Frequency | GHz | 6.130 | 6.130 | 6.130 | 6.130 |
| 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 | 48.8 | 52.2 | 58.4 | 63.6 |
| Earth Station Diameter | m | 4.5 | 7.2 | 11.0 | 4.5 |
| Earth Station Gain | dBi | 47.3 | 51.4 | 55.1 | 47.3 |
| Uplink Input Power per Carrier | dBW | 1.5 | 0.8 | 3.3 | 16.3 |
| 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 | 15.3 | 17.5 | 17.6 | 16.3 |
| C/I XPOL, ACI, IM, ASI | dB | 14.8 | 16.9 | 17.1 | 15.8 |
| C/(N+I) uplink | dB | 12.0 | 14.2 | 14.4 | 13.0 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-3dB contour) | dBW | 9.8 | 13.1 | 19.4 | 24.6 |
| Max e.i.r.p. Density | dBW/4KHz | -5.3 | -3.2 | -3.0 | -4.3 |
| Max PFD | dBW/m2/4kHz | -167.4 | -165.3 | -165.1 | -166.4 |
| 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 | 22.5 | 24.0 | 24.0 | 22.5 |
| C/N Thermal Downlink | dB | 11.3 | 14.9 | 15.2 | 12.4 |
| C/I XPOL, ACI, IM, ASI | dB | 14.1 | 16.8 | 16.9 | 15.1 |
| C/(N+I) downlink | dB | 9.5 | 12.7 | 12.9 | 10.5 |
| Adjacent satellite interference: | | | | | |
| uplink input power dens @ 2 deg | dBW/Hz | -44 | -44 | -44 | -44 |
| downlink eirp dens @ 2 deg | dBW/Hz | -37 | -36.2 | -36 | -37 |
| C/I up | dB | 17.77 | 19.92 | 20.10 | 18.79 |
| C/I dn | dB | 17.07 | 19.82 | 19.90 | 18.09 |
| Aggregate C/I up | dB | 14.77 | 16.92 | 17.10 | 15.79 |
| Aggregate C/I dn | dB | 14.07 | 16.82 | 16.90 | 15.09 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 7.6 | 10.4 | 10.6 | 8.6 |
| C/(N+I) required | dB | 6.0 | 9.3 | 9.3 | 6.9 |
| System Margin | dB | 1.6 | 1.1 | 1.3 | 1.7 |

| 72M0G7W | 36M0F3F |
|----------------|----------------|
| 6.130 | 6.130 |
| 3.905 | 3.905 |
| 72000.0 | 36000.0 |
| | |
| 63330 | 2000.0 |
| 82.9 | 75.2 |
| 13.0 | 13.0 |
| 56.6 | 56.6 |
| 26.3 | 18.6 |
| 200.0 | 199.9 |
| -7.0 | -8.0 |
| 26.5 | 20.3 |
| 24.9 | 20.2 |
| 22.6 | 17.3 |
| | |
| 34.9 | 33.6 |
| -4.1 | 9.6 |
| -166.2 | -152.5 |
| 195.5 | 196.2 |
| 6.3 | 4.5 |
| 47.1 | 43.8 |
| 95.0 | 95.0 |
| 27.3 | 24.0 |
| 17.3 | 14.5 |
| 19.0 | 18.9 |
| 15.1 | 13.1 |
| | |
| -44 | -44.5 |
| -36 | -38 |
| 27.94 | 23.19 |
| 22.04 | 21.89 |
| 24.94 | 20.19 |
| 19.04 | 18.89 |
| | |
| 14.4 | 11.7 |
| 12.7 | 10.0 |
| 1.7 | 1.7 |