

| Link Parameters | Units | 346KG7W | 1M84G7W | 8M25G7W | 36M0G7W |
|---|----------|---------|---------|---------|---------|
| 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 | 1840.0 | 8250.0 | 36000.0 |
| Uplink: | | | | | |
| Noise BW (or energy dispersal for TV/FM) | kHz | 256 | 1365.3 | 6111.3 | 30000 |
| Nominal E/S e.i.r.p. per carrier | dBW | 49.7 | 58.7 | 64.4 | 77.0 |
| Earth Station Diameter | m | 4.5 | 11.0 | 4.5 | 13.0 |
| Earth Station Gain | dBi | 47.5 | 55.3 | 47.5 | 56.8 |
| Uplink Input Power per Carrier | dBW | 2.2 | 3.4 | 16.9 | 20.2 |
| Free Space Loss | dB | 200.6 | 200.6 | 200.6 | 200.6 |
| G/T Satellite | dB/K | -11.5 | -11.5 | -11.5 | -11.5 |
| C/N Thermal Uplink | dB | 12.1 | 13.8 | 13.0 | 18.7 |
| C/I XPOL, ACI, IM, ASI | dB | 15.7 | 17.4 | 16.6 | 22.3 |
| C/(N+I) uplink | dB | 10.5 | 12.3 | 11.5 | 17.1 |
| Downlink: | | | | | |
| Satellite e.i.r.p. per carrier (-3dB contour) | dBW | 12.2 | 21.3 | 27.0 | 34.6 |
| Max e.i.r.p. Density | dBW/4KHz | -2.9 | -1.1 | -1.9 | -1.2 |
| Max PFD | dBW/m2/4 | -165.0 | -163.2 | -164.0 | -163.3 |
| Free Space Loss | dB | 196.0 | 196.0 | 196.0 | 196.0 |
| Earth Station Diameter | m | 3.8 | 4.5 | 3.8 | 3.8 |
| Earth Station Gain | dBi | 42.3 | 43.8 | 42.3 | 42.3 |
| Noise Temperature | kHz | 95.0 | 95.0 | 95.0 | 95.0 |
| Earth Station G/T | dB/K | 22.5 | 24.0 | 22.5 | 22.5 |
| C/N Thermal Downlink | dB | 13.2 | 16.6 | 14.3 | 15.0 |
| C/I XPOL, ACI, IM, ASI | dB | 16.5 | 19.8 | 17.5 | 18.2 |
| C/(N+I) downlink | dB | 11.6 | 14.9 | 12.6 | 13.3 |
| 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 | 18.67 | 20.40 | 19.59 | 25.28 |
| C/I dn | dB | 19.47 | 22.80 | 20.49 | 21.18 |
| Aggregate C/I up | dB | 15.67 | 17.40 | 16.59 | 22.28 |
| Aggregate C/I dn | dB | 16.47 | 19.80 | 17.49 | 18.18 |
| Overall: | | | | | |
| C/(N+I) overall | dB | 8.0 | 10.4 | 9.0 | 11.8 |
| C/(N+I) required | dB | 6.0 | 9.3 | 6.9 | 6.9 |
| System Margin | dB | 2.0 | 1.1 | 2.1 | 4.9 |

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|----------------|
| 36M0F3F |
| 5.97 |
| 3.75 |
| 36000.0 |
| |
| 2000.0 |
| 78.6 |
| 13.0 |
| 56.8 |
| 21.8 |
| 200.6 |
| -9.5 |
| 21.5 |
| 23.1 |
| 19.2 |
| |
| 34.2 |
| 10.2 |
| -151.9 |
| 195.5 |
| 4.5 |
| 43.8 |
| 95.0 |
| 24.0 |
| 15.8 |
| 18.5 |
| 13.9 |
| |
| -44 |
| -37 |
| 26.09 |
| 21.49 |
| 23.09 |
| 18.49 |
| |
| 12.8 |
| 10.0 |
| 2.8 |