

| Link Parameters | Units | 1M34G7W |
|---|--------------|----------------|
| Uplink frequency | GHz | 14.40 |
| Downlink frequency | GHz | 12.10 |
| User data rate | kbit/s | 1544 |
| Modulation | | QPSK |
| Total coding rate | | 0.691 |
| Carrier bandwidth | kHz | 1340 |
| Uplink: | | |
| Nominal E/S e.i.r.p. per carrier | dBW | 51.6 |
| Earth station diameter | m | 1.2 |
| Earth station gain | dBi | 43.3 |
| Uplink input power per carrier | dBW | 8.3 |
| Uplink input power density | dBW/Hz | -53.0 |
| Atmospheric loss | dB | 0.2 |
| Free space path loss | dB | 207.3 |
| G/T satellite (-3 dB contour) | dB/K | 1.6 |
| C/N thermal uplink | dB | 13.0 |
| C/I XPOL, ACI, ASI | dB | 20.3 |
| C/(N+I) uplink | dB | 12.2 |
| Downlink: | | |
| Satellite e.i.r.p. per carrier (-3dB contour) | dBW | 29.0 |
| Atmospheric loss | dB | 0.1 |
| Free space path loss | dB | 205.8 |
| Earth station diameter | m | 3.7 |
| Earth station gain | dBi | 51.6 |
| Noise temperature | K | 120.0 |
| Earth station G/T | dB/K | 30.8 |
| C/N thermal downlink | dB | 21.2 |
| C/I XPOL, ACI, IM, ASI | dB | 14.3 |
| C/(N+I) downlink | dB | 12.0 |
| Overall: | | |
| C/(N+I) overall | dB | 9.1 |
| C/(N+I) required | dB | 5.7 |
| Margin | dB | 3.4 |