

| General: | Units | Clear Sky | Faded |
|---|--------------|------------------|--------------|
| Emission Designator | | 2M07G7D | 2M07G7D |
| Data Rate | kbit/s | 1905.0 | 1905.0 |
| Modulation | | QPSK | QPSK |
| Coding Rate | | 0.6642 | 0.6642 |
| Carrier Bandwidth | kHz | 2065 | 2065 |
| Uplink Frequency | GHz | 28.4 | 28.4 |
| Downlink Frequency | GHz | 18.6 | 18.6 |
| Uplink Elevation Angle | degrees | 35 | 35 |
| Downlink Elevation Angle | degrees | 35 | 35 |
| Uplink: | | | |
| Tx E/S Antenna Diameter | m | 0.95 | 0.95 |
| Tx E/S Power to Antenna | W | 3.7 | 3.7 |
| Tx E/S Antenna Gain | dBi | 47.1 | 47.1 |
| Tx E/S EIRP per Carrier | dBW | 52.8 | 52.8 |
| Tx E/S Antenna Pointing Loss | dB | 0.5 | 0.5 |
| Atmospheric and Rain Losses | dB | 0.5 | 4.6 |
| Free Space Loss | dB | 213.2 | 213.2 |
| G/T toward Tx E/S (-3 dB) | dB/K | 3.5 | 3.5 |
| C/I - Intra-system | dB | 30.0 | 30.0 |
| Downlink: | | | |
| EIRP per Carrier towards Rx E/S (-3 dB) | dBW | 36.6 | 32.5 |
| Atmospheric and Rain Losses | dB | 0.3 | 8 |
| Free Space Loss | dB | 209.5 | 209.5 |
| Rx E/S Antenna Pointing Loss | dB | 0.8 | 0.8 |
| Rx E/S Antenna Diameter | m | 7.3 | 7.3 |
| Rx E/S Antenna Gain | dBi | 61.2 | 61.2 |
| Rx E/S G/T | dB/K | 38.0 | 34.7 |
| System Noise Temp (LNA+Sky) | K | 210 | 442 |
| C/I - Intra-system | dB | 16.0 | 16.0 |
| End-to-End: | | | |
| C/N - Thermal Uplink | dB | 8.4 | 4.3 |
| C/I Up - ASI | dB | 22.5 | 18.4 |
| C/N - Thermal Downlink | dB | 30.1 | 15.1 |
| C/I Down - ASI | dB | 26.8 | 26.8 |
| C/(N+I) - Total Actual | dB | 7.4 | 3.5 |
| C/N - Required | dB | 3.5 | 3.5 |
| Excess Margin | dB | 3.9 | 0.0 |