

|                                      |            |                  |
|--------------------------------------|------------|------------------|
| <b>General</b>                       | Unit       |                  |
| User terminal type                   | -          | Class-2          |
| Modulation ID / Designator           | -          | C2F2/<br>200KD7W |
| Data rate (kbps)                     | (kbps)     | 464              |
| Coding rate                          | -          | 0.775            |
| Modulation                           | -          | 16-QAM           |
| Carrier bandwidth                    | (kHz)      | 189              |
| Allocated bandwidth                  | (kHz)      | 200              |
| <b>Uplink</b>                        |            |                  |
| Frequency                            | (GHz)      | 6.5              |
| Earth Station EIRP                   | (dBW)      | 62.3             |
| Antenna diameter                     | m          | 19.0             |
| Antenna tx gain                      | dBi        | 59.6             |
| Uplink power                         | (dBW)      | 2.7              |
| Uplink p.s.d. avgd. in 4 kHz         | (dBW/4kHz) | -14.1            |
| Path loss                            | (dB)       | 200.9            |
| Mean Atmospheric loss                | (dB)       | 0.4              |
| Satellite G/T                        | (dB/K)     | -10.4            |
| Up-path C/No                         | (dBHz)     | 79.2             |
| <b>Downlink</b>                      |            |                  |
| Frequency                            | (GHz)      | 1.5              |
| Satellite EIRP                       | (dBW)      | 41.5             |
| Path loss                            | (dB)       | 188.4            |
| Mean Atmospheric loss                | (dB)       | 0.1              |
| User terminal G/T                    | (dB/K)     | -12.5            |
| Down-path C/No                       | (dBHz)     | 69.1             |
| <b>Total</b>                         |            |                  |
| Mean satellite C/IMo                 | (dBHz)     | 73.9             |
| Co-Channel Interference              | (dBHz)     | 74.0             |
| Other system interference allocation | (dB)       | 1.0              |
| Mean Overall C/No                    | (dBHz)     | 65.7             |
| Mean Overall C/N                     | (dB)       | 12.9             |
| <b>Margin</b>                        |            |                  |
| C/N objective                        | (dB)       | 11.4             |
| C/N margin                           | (dB)       | 1.5              |