

|                                      |            |          |
|--------------------------------------|------------|----------|
| <b>General</b>                       | Unit       |          |
| User terminal type                   | -          | FLEET-33 |
| Emission Designator                  | -          | 7K50G1W  |
| Data rate (kbps)                     | (kbps)     | 4.8      |
| Coding rate                          | -          | 0.5      |
| Modulation                           | -          | O-QPSK   |
| Carrier bandwidth                    | (kHz)      | 3.5      |
| Allocated bandwidth                  | (kHz)      | 7.5      |
| <b>Uplink</b>                        |            |          |
| Frequency                            | (GHz)      | 6.5      |
| Earth Station EIRP                   | (dBW)      | 55.7     |
| Antenna diameter                     | m          | 19.0     |
| Antenna tx gain                      | dBi        | 59.6     |
| Uplink power                         | (dBW)      | -3.9     |
| Uplink p.s.d. avgd. in 4 kHz         | (dBW/4kHz) | -3.9     |
| Path loss                            | (dB)       | 200.9    |
| Mean Atmospheric loss                | (dB)       | 0.4      |
| Satellite G/T                        | (dB/K)     | -10.4    |
| Up-path C/No                         | (dBHz)     | 72.6     |
| <b>Downlink</b>                      |            |          |
| Frequency                            | (GHz)      | 1.5      |
| Satellite EIRP                       | (dBW)      | 17.4     |
| Path loss                            | (dB)       | 188.4    |
| Mean Atmospheric loss                | (dB)       | 0.1      |
| User terminal G/T                    | (dB/K)     | -12.5    |
| Down-path C/No                       | (dBHz)     | 45.0     |
| <b>Total</b>                         |            |          |
| Mean satellite C/IMo                 | (dBHz)     | 49.9     |
| Co-Channel Interference              | (dBHz)     | 999.0    |
| Other system interference allocation | (dB)       | 1.0      |
| Mean Overall C/No                    | (dBHz)     | 42.8     |
| Mean Overall C/N                     | (dB)       | 7.3      |
| <b>Margin</b>                        |            |          |
| C/N objective                        | (dB)       | 5.4      |
| C/N margin                           | (dB)       | 1.9      |