

| <b>General</b>                           | <b>Unit</b> |                      |
|--|-------------|----------------------|
| User terminal type                       |             | INM-M<br>(Med. Gain) |
| Emission Designator<br>Modulation        |             | 10K0G1W<br>O-QPSK    |
| <b>Uplink</b>                            |             |                      |
| Frequency                                | GHz         | 1.6                  |
| User terminal elevation angle            | (deg)       | 20.0                 |
| User terminal EIRP towards satellite     | (dBW)       | 25.0                 |
| Path Loss                                | (dB)        | 188.8                |
| Mean atmospheric loss                    | (dB)        | 0.1                  |
| Satellite G/T                            | (dB/K)      | -10                  |
| Adjacent channel interference allocation | (dB)        | 0.2                  |
| Up-path C/No                             | (dBW/Hz)    | 54.5                 |
| <b>Downlink</b>                          |             |                      |
| Frequency                                | GHz         | 3.6                  |
| LES elevation angle                      | (deg)       | 5.0                  |
| Satellite EIRP                           | (dBW)       | -13.4                |
| Path Loss                                | (dB)        | 195.7                |
| Mean atmospheric loss                    | (dB)        | 0.1                  |
| LES G/T                                  | (dB/K)      | 30.7                 |
| Random loss                              | (dB)        | 1.0                  |
| Down-path C/No                           | (dBW/Hz)    | 49.1                 |
| <b>Total</b>                             |             |                      |
| Mean satellite C/IMo                     | (dB/Hz)     | 45.9                 |
| Co-channel interference                  | (dB/Hz)     | 63.0                 |
| Adjacent sat. interference allocation    | (dB)        | 1.0                  |
| Mean overall C/No                        | (dB/Hz)     | 42.8                 |
| Mean overall C/N                         | (dB)        | 5.8                  |
| <b>Margin</b>                            |             |                      |
| C/N objective                            | (dB)        | 5.0                  |
| C/N margin                               | (dB)        | 0.8                  |