

Link Parameters	Units	3M75G7W
Uplink frequency	GHz	25.00
Downlink frequency	GHz	17.50
User data rate	kbit/s	1544
Modulation		QPSK
Total coding rate		0.247
Number of carriers per TXP		30
Carrier bandwidth	kHz	3751
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	62.8
Earth station diameter	m	4.5
Earth station gain	dBi	59.6
Uplink input power per carrier	dBW	3.2
Uplink input power density	dBW/Hz	-62.0
Atmospheric loss	dB	0.4
Free space path loss	dB	211.9
G/T satellite	dB/K	-8.0
C/N thermal uplink	dB	6.1
C/I ASI	dB	38.1
C/(N+I) uplink	dB	6.1
Downlink:		
Satellite e.i.r.p. per carrier	dBW	16.0
Atmospheric loss	dB	0.2
Free space path loss	dB	208.7
Earth station mis-pointing loss	dB	0.3
Earth station diameter	m	4.5
Earth station gain	dBi	56.5
Noise temperature	K	150.0
Earth station G/T	dB/K	34.7
C/N thermal downlink	dB	5.1
C/I XPOL, IM, ASI	dB	9.1
C/(N+I) downlink	dB	2.6
Overall:		
C/(N+I) overall	dB	1.0
C/(N+I) required	dB	-2.0
Margin	dB	3.0