

Link Parameters	Units	6M33G7W
Uplink frequency	GHz	13.88
Downlink frequency	GHz	11.07
User data rate	kbit/s	8448
Modulation		QPSK
Total coding rate		0.801
Carrier bandwidth	kHz	6330
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	61.4
Earth station diameter	m	4.5
Earth station gain	dBi	54.5
Uplink input power per carrier	dBW	6.9
Uplink input power density	dBW/Hz	-61.1
Atmospheric loss	dB	0.2
Free space path loss	dB	207.0
G/T satellite (-3dB contour)	dB/K	4.7
C/N thermal uplink	dB	19.5
C/I XPOL, ACI, IM, ASI	dB	20.0
C/(N+I) uplink	dB	16.7
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	36.3
Atmospheric loss	dB	0.1
Free space path loss	dB	205.0
Earth station diameter	m	2.4
Earth station gain	dBi	47.0
Noise temperature	K	110.0
Earth station G/T	dB/K	26.6
C/N thermal downlink	dB	18.4
C/I XPOL, ACI, IM, ASI	dB	16.3
C/(N+I) downlink	dB	12.3
Overall:		
C/(N+I) overall	dB	10.9
C/(N+I) required	dB	5.8
Margin	dB	5.1