

Link Parameters	Units	6M33G7W
Uplink frequency	GHz	14.40
Downlink frequency	GHz	12.10
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	61.1
Earth station diameter	m	2.4
Earth station gain	dBi	49.3
Uplink input power per carrier	dBW	11.8
Uplink input power density	dBW/Hz	-56.2
Atmospheric loss	dB	0.2
Free space path loss	dB	207.3
G/T satellite (-3 dB contour)	dB/K	1.6
C/N thermal uplink	dB	15.7
C/I XPOL, ACI, ASI	dB	22.3
C/(N+I) uplink	dB	14.9
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	37.2
Atmospheric loss	dB	0.1
Free space path loss	dB	205.8
Earth station diameter	m	2.4
Earth station gain	dBi	47.8
Noise temperature	K	120.0
Earth station G/T	dB/K	27.0
C/N thermal downlink	dB	18.9
C/I XPOL, ACI, IM, ASI	dB	14.2
C/(N+I) downlink	dB	11.0
Overall:		
C/(N+I) overall	dB	9.5
C/(N+I) required	dB	5.8
Margin	dB	3.7