

Link Parameters	Units	6M33G7W
Uplink frequency	GHz	13.90
Downlink frequency	GHz	11.10
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	67.6
Earth station diameter	m	4.5
Earth station gain	dBi	54.5
Uplink input power per carrier	dBW	13.1
Uplink input power density	dBW/Hz	-54.9
Atmospheric loss	dB	0.2
Free space path loss	dB	207.0
G/T satellite (-3 dB contour)	dB/K	2.4
C/N thermal uplink	dB	23.4
C/I XPOL, ACI, ASI	dB	19.9
C/(N+I) uplink	dB	18.3
Downlink:		
Satellite e.i.r.p. per carrier (-3 dB contour)	dBW	35.0
Atmospheric loss	dB	0.1
Free space path loss	dB	205.1
Earth station diameter	m	3.7
Earth station gain	dBi	50.8
Noise temperature	K	130.0
Earth station G/T	dB/K	29.7
C/N thermal downlink	dB	20.1
C/I XPOL, ACI, IM, ASI	dB	14.7
C/(N+I) downlink	dB	11.4
Overall:		
C/(N+I) overall	dB	10.6
C/(N+I) required	dB	5.8
Margin	dB	4.8