

Link Parameters	Units	27M0G7W
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.95
User data rate	kbit/s	28828
Modulation		QPSK
Total coding rate		0.641
Carrier bandwidth	kHz	27000
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	70.7
Earth station diameter	m	9.0
Earth station gain	dBi	53.5
Uplink input power per carrier	dBW	17.2
Uplink input power density	dBW/Hz	-57.1
Atmospheric loss	dB	0.1
Free space path loss	dB	200.0
G/T satellite (-3 dB contour)	dB/K	-5.0
C/N thermal uplink	dB	19.9
C/I XPOL, ACI, ASI	dB	11.4
C/(N+I) uplink	dB	10.9
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	40.4
Atmospheric loss	dB	0.1
Free space path loss	dB	196.1
Earth station diameter	m	3.2
Earth station gain	dBi	40.6
Noise temperature	K	100.0
Earth station G/T	dB/K	20.6
C/N thermal downlink	dB	19.1
C/I XPOL, ACI, IM, ASI	dB	13.0
C/(N+I) downlink	dB	9.4
Overall:		
C/(N+I) overall	dB	7.1
C/(N+I) required	dB	3.9
Margin	dB	3.2