

Link Parameters	Units	27M0G7W
Uplink frequency	GHz	6.88
Downlink frequency	GHz	4.65
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	71.0
Earth station diameter	m	9.0
Earth station gain	dBi	54.4
Uplink input power per carrier	dBW	16.6
Uplink input power density	dBW/Hz	-57.7
Atmospheric loss	dB	0.1
Free space path loss	dB	200.9
G/T satellite (-3 dB contour)	dB/K	-5.0
C/N thermal uplink	dB	19.3
C/I XPOL, ACI, ASI	dB	11.7
C/(N+I) uplink	dB	11.0
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	34.4
Atmospheric loss	dB	0.1
Free space path loss	dB	197.5
Earth station diameter	m	4.5
Earth station gain	dBi	45.0
Noise temperature	K	100.0
Earth station G/T	dB/K	25.0
C/N thermal downlink	dB	16.0
C/I XPOL, ACI, IM, ASI	dB	11.4
C/(N+I) downlink	dB	7.7
Overall:		
C/(N+I) overall	dB	6.0
C/(N+I) required	dB	3.9
Margin	dB	2.1