Link Parameters	Units	27M0G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
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	71.1
Earth station diameter	m	3.7
Earth station gain	dBi	53.0
Uplink input power per carrier	dBW	18.1
Uplink input power density	dBW/Hz	-56.2
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	22.3
C/I XPOL, ACI, ASI	dB	18.0
C/(N+I) uplink	dB	16.6
Downlink:		
Satellite e.i.r.p. per carrier	dBW	43.5
Atmospheric loss	dB	0.1
Free space path loss	dB	205.7
Earth station diameter	m	2.4
Earth station gain	dBi	47.7
Noise temperature	K	120.0
Earth station G/T	dB/K	26.9
C/N thermal downlink	dB	18.9
C/I XPOL, ACI, IM, ASI	dB	13.2
C/(N+I) downlink	dB	9.6
Overall:		
C/(N+I) overall	dB	8.8
C/(N+I) required	dB	3.9
Margin	dB	4.9