

Link Parameters	Units	54M0G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
User data rate	kbit/s	114754
Modulation		8PSK
Total coding rate		0.841
Carrier bandwidth	kHz	54000
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	84.6
Earth station diameter	m	6.1
Earth station gain	dBi	57.3
Uplink input power per carrier	dBW	27.3
Uplink input power density	dBW/Hz	-50.1
Atmospheric loss	dB	0.2
Free space path loss	dB	207.2
G/T satellite	dB/K	4.3
C/N thermal uplink	dB	32.7
C/I XPOL, ACI, ASI	dB	24.0
C/(N+I) uplink	dB	23.5
Downlink:		
Satellite e.i.r.p. per carrier	dBW	49.5
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	21.9
C/I XPOL, ACI, IM, ASI	dB	15.9
C/(N+I) downlink	dB	12.4
Overall:		
C/(N+I) overall	dB	12.1
C/(N+I) required	dB	6.5
Margin	dB	5.6