

Link Parameters	Units	36M0G7W
Uplink frequency	GHz	6.18
Downlink frequency	GHz	3.95
Modulation		8PSK
Carrier bandwidth	kHz	36000
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	75.0
Earth station diameter	m	6.1
Earth station gain	dBi	50.1
Uplink input power per carrier	dBW	24.9
Uplink input power density	dBW/Hz	-50.6
Atmospheric loss	dB	0.1
Free space path loss	dB	200.2
G/T satellite (-3 dB contour)	dB/K	0.9
C/N thermal uplink	dB	29.4
C/I XPOL, ACI, ASI	dB	18.2
C/(N+I) uplink	dB	17.9
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	40.1
Atmospheric loss	dB	0.1
Free space path loss	dB	196.3
Earth station antenna pointing loss	dB	0.3
Earth station diameter	m	4.5
Earth station gain	dBi	43.6
Earth station G/T	dB/K	23.6
C/N thermal downlink	dB	20.8
C/I XPOL, ACI, IM, ASI	dB	18.1
C/(N+I) downlink	dB	14.0
Overall:		
C/(N+I) overall	dB	12.5
C/(N+I) required	dB	8.8
Margin	dB	3.7