

Link Parameters	Units	5M50G7W
Uplink frequency	GHz	13.90
Downlink frequency	GHz	11.10
Carrier bandwidth	kHz	5500.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	65.7
Earth station diameter	m	7.0
Earth station gain	dBi	58.3
Uplink input power per carrier	dBW	7.4
Atmospheric loss	dB	0.3
Free space path loss	dB	207.0
G/T satellite (-3dB contour)	dB/K	5.0
C/N thermal uplink	dB	24.6
C/I XPOL, ACI, IM, ASI	dB	21.1
C/(N+I) uplink	dB	19.5
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	39.0
Atmospheric loss	dB	0.2
Free space path loss	dB	205.1
Earth station diameter	m	7.5
Earth station gain	dBi	57.0
Noise temperature	K	175.0
Earth station G/T	dB/K	34.5
C/N thermal downlink	dB	29.5
C/I XPOL, ACI, IM, ASI	dB	22.9
C/(N+I) downlink	dB	20.5
Overall:		
C/(N+I) overall	dB	16.9
C/(N+I) required	dB	9.4
System Margin	dB	7.5