

Link Parameters	Units	5M50G7W
Uplink frequency	GHz	14.25
Downlink frequency	GHz	11.95
Carrier bandwidth	kHz	5500.0
Uplink:		
Nominal E/S e.i.r.p. per carrier	dBW	65.7
Earth station diameter	m	7.5
Earth station gain	dBi	59.1
Uplink input power per carrier	dBW	6.6
Atmospheric loss	dB	0.3
Free space path loss	dB	207.2
G/T satellite (-3dB contour)	dB/K	1.0
C/N thermal uplink	dB	20.4
C/I XPOL, ACI, IM, ASI	dB	21.0
C/(N+I) uplink	dB	17.7
Downlink:		
Satellite e.i.r.p. per carrier (-3dB contour)	dBW	39.0
Atmospheric loss	dB	0.2
Free space path loss	dB	205.7
Earth station diameter	m	7.5
Earth station gain	dBi	57.6
Noise temperature	K	175.0
Earth station G/T	dB/K	35.2
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	15.8
C/(N+I) required	dB	9.4
System Margin	dB	6.4