

Parameter	Unit	
Carrier Bandwidth	kHz	41.6
<b><u>Uplink</u></b>		
Uplink Frequency	GHz	2.0
Uplink Antenna Gain	dBi	24.4
PBS station uplink EIRP	dBW	25.0
Uplink path loss (dB)	dB	190.5
Uplink antenna pointing loss (dB)	dB	3.0
Satellite G/T	dB/K	8.5
Uplink C/N <sub>0</sub>	dB	68.6
Uplink C/I <sub>0</sub> Intra-system	dBHz	65.2
<b><u>Downlink</u></b>		
Downlink Frequency	GHz	19.7
Downlink EIRP (beam peak)	dBW	22.7
Atmospheric loss	dB	0.4
Downlink path loss	dB	209.6
Downlink rain attenuation	dB	10.0
Gateway G/T	dB/K	42.3
G/T degradation due to rain	dB	3.1
Downlink C/N <sub>0</sub>	dB	70.5
Downlink C/I <sub>0</sub> Intra-system	dBHz	70.2
Downlink C/I <sub>0</sub> ASI	dBHz	81.2
<b><u>End-to-end</u></b>		
Total link C/(N+I)	dB	15.8
C/N required	dB	11.8
System margin	dB	4.0