

<b>Transparent Payload - Type A Receivers - 2.6 MHz Carriers</b>		
Item	Value	Unit
Symbol rate	1.836	Msp/s
Bits/Symbol Rate	2	
Coding Rate	0.33	
Aggregate Carrier Information Rate	1224	kbit/s
Occupied bandwidth	2.57	MHz
$E_b/N_0$ Required	0.5	dB
Total implementation loss	1.5	dB
$C/(N_0+I_0)$ Required	62.8	dB(Hz)
$C/(N+I)$ Required	0.2	dB
C/N Required	1.0	dB
HPA output power in W	110.0	W
HPA output power in dBW	20.4	dBW
Output losses	1.0	dB
Tx Antenna gain	48.6	dBi
Uplink e.i.r.p.	68.0	dBW
Elevation angle	90	°
Uplink path loss	200.5	dB
Atmospheric absorption	0.1	dB
Receive G/T @ Contour	-8.3	dB/K
Uplink C/ $N_0$	87.7	dB(Hz)
Uplink C/N	25.1	dB
Single entry interfering power density	-44.7	dBW/Hz
Uplink interference eirp	45.1	dBW
$I_0$ after antenna	-198.2	dBW/Hz
$N_0$ after antenna	-200.3	dBW/Hz
Uplink $N_0+I_0$	-196.1	dBW/Hz
C after antenna	-112.6	dBW
Uplink $C/(N_0+I_0)$	83.5	dB(Hz)
Downlink $C/(N_0+I_0)$ Required	62.9	dB(Hz)
Downlink peak eirp per carrier	41.5	dBW
Downlink beam contour	0	dB
Elevation angle	90	°
Downlink path loss	187.0	dB
Atmospheric absorption	0.1	dB
Earth Station antenna gain	5.0	dBi
Earth Station noise temperature	280.0	K
Earth Station antenna receive G/T	-19.5	dB/K
Downlink receiver power	-140.6	dBW
Downlink C/ $N_0$	63.5	dB(Hz)
Downlink C/ $I_0$	71.3	dB
Downlink $C/(N_0+I_0)$	62.9	dB(Hz)
Downlink Margin	0.0	dB
Overall $C/(N_0+I_0)$	62.8	dB(Hz)
System Margin	0.0	dB