

Link Parameters	Clear Sky (- 3dB Contour)	Faded (-3 dB Contour)
<b>General:</b>		
Emmission Designator	1M34G7W	1M34G7W
Data Rate (kbps)	1,544	1,544
Modulation	QPSK	QPSK
Coding Rate	0.691	0.691
Carrier Bandwidth (kHz)	1,340	1,340
Uplink Frequency (MHz)	29,800	29,800
<b>Link Geometry:</b>		
Elevation Angle (degrees)	30.0	30.0
Tx E/S Range to Satellite (km)	38,612	38,612
<b>Uplink:</b>		
Tx E/S Antenna Diameter (m)	0.66	0.66
Tx E/S Power to Antenna (W)	2.0	3.0
Tx E/S Antenna Gain (dB)	44.1	44.1
Tx E/S EIRP per Carrier (dBW)	47.1	48.8
Atmospheric and Rain Losses (dB)	0.4	10.6
Free Space Loss (dB)	213.7	213.7
G/T towards Tx E/S (dB/K)	15.8	15.8
(Eb/No) - Thermal Uplink (dB)	15.5	7.1
(Eb/lo) - (ASI) (dB)	16.6	16.6
(Eb/No+lo) - Total Actual (dB)	13.0	6.6
(Eb/No+lo) - Total Required (dB)	5.5	5.5
Excess Margin (dB)	7.5	1.1
Availability (%)	N/A	99.80