

## Command Link Budget

Link Parameters	Transfer Orbit
Frequency (MHz)	17,304
Tx E/S Antenna Gain (dBi)	63.9
Power to Tx E/S Antenna (dBW)	39.4
Tx E/S EIRP (dBW)	103.3
Incident Flux Density (dBW/m <sup>2</sup> )	-60.0
Aperture Factor (dB-m <sup>2</sup> )	-46.2
Polarization Loss (dB)	0.0
Incident Isotropic Power (dBW)	-106.2
Antenna Gain (dBi)	-0.5
Noise Temperature (dB-K)	30.0
Total Receive Losses (dB)	10.0
Satellite G/T (dB/K)	-40.5
Receiver Input Power (dBW)	-116.7
Receiver Threshold (dBW)	-138.0
Spacecraft Margin (dB)	21.3