

## Command Link Budget

Link Parameters		Omni Beam
Frequency	(MHz)	17,791.5
Tx E/S Antenna Gain	(dBi)	63.9
Power to Tx E/S Antenna	(dBW)	16.7
Tx E/S EIRP	(dBW)	80.6
Incident Flux Density	(dBW/m <sup>2</sup> )	-83.0
Aperture Factor	(dB-m <sup>2</sup> )	-46.5
Polarization Loss	(dB)	0.0
Incident Isotropic Power	(dBW)	-129.5
Antenna Gain (EOC)	(dBi)	-4.0
Receiver Input Power	(dBW)	-140.5
Receiver Threshold	(dBW)	-145.0
Spacecraft Margin	(dB)	4.5