

Table 4. Command, Telemetry and Beacon Link Parameters For GEO and Transfer Orbit.

	Command		Telemetry		Beacon
	Xfer	GEO	Xfer	GEO	GEO
Polarization	LHCP	LHCP	LHCP	LHCP	LHCP
Power into Antenna, dBW	27	27	14	0	-20.4
Power Density, dBW/m ²	-33	-33	-34.6	-51.6	n/a
Tx Antenna Gain (7 m), dBw	60.2	60.2	-3	16 (horn)	45.4
Eirp, dBW	87.1	87.1	11	16	25.0
Eirp Density, dBW/Hz	27.1	27.1	-37.6	-35.6	n/a
PFD, dBW/m ²	-75.3	-75.3	-140	-146.3	n/a
Required PFD, dBW/m ²	-105	-105	n/a	n/a	n/a
Space Loss, dB	-209.1	-209.1	-206.1	-206.1	-206.1
Rx Antenna Gain, dBi	-3	19 (horn)	57.2	57.2	33.5
Bandwidth, dB	60	60	48.6	51.6	40
CNR, dB	15.0	37.9 (1)	21.3	23.3	18.5
Data Rate, bps	250	250	2,400	4,800	n/a

(1) Power can be reduced during normal operations.