

General:	Units	Clear Sky
Emission Designator		1M67G7W
Data Rate	Mbit/s	1.6245
Modulation		QPSK
Coding Rate		0.67
Noise Bandwidth	dB-Hz	60.8
Uplink Frequency	GHz	28.5
Downlink Frequency	GHz	18.7
Uplink Site		Japan
Downlink Site		Hawaii
Uplink:		
Tx E/S Antenna Diameter	m	4.5
Tx E/S Power to Antenna	W	0.1
Tx E/S Antenna Gain	dBi	60.2
Tx E/S EIRP per Carrier	dBW	47.7
Tx E/S Antenna Pointing Loss	dB	0.5
Atmospheric and Rain Losses	dB	0.5
Free Space Loss	dB	212.8
G/T	dB/K	19.5
Downlink:		
EIRP per Carrier towards Rx E/S	dBW	41.3
Atmospheric and Rain Losses	dB	0.4
Free Space Loss	dB	209.8
Rx E/S Antenna Pointing Loss	dB	0.5
Rx E/S Antenna Diameter	m	1.2
Rx E/S Antenna Gain	dBi	44.5
Rx E/S G/T	dB/K	19.5
End-to-End:		
C/N - Thermal Uplink	dB	21.2
C/I Up - ASI	dB	21.6
C/N - Thermal Downlink	dB	17.9
C/I Down - ASI	dB	20.7
C/(N+I) - Total Actual	dB	14.1
C/N - Required	dB	9.0
Excess Margin	dB	5.1