

Uplink EIRP Analysis:		4.6m at:	14.125	GHz	18-Oct-19	Notes
Analysis:						
Antenna Gain (at Flange):			54.8	dBi		4LPKU-46T-1
Frequency:			14.125	GHz		
Waveguide Losses			0.8	dB		
Coupler & W/G Switch Losses			0.3	dB		
Pointing Losses:			0.0	dB		
RX Reject Filter Loss:			0.0	dB		
HPA Protection Configuration:			1:1			single thread
Net Antenna Gain:			53.7	dBi		
Required EIRP/Carrier:			76.7	dBW		Linear EIRP
Required HPA Flange Power/Carrier:			23.0	dBW		
Required HPA Flange Power/Carrier:			199.5	Watts/carrier		
Number of Carriers:			1.0	N		
Power Sharing factor:			0.0	dB		
HPA Linearized ?			No	Yes/No		
HPA Output Back Off:			3.0	dB		PLinear = maximum output power at which third order intermodulation products < -25 dBc (for two tones separated by 5 MHz) or spectral regrowth on a single QPSK at 1.5 x symbol rate or OQPSK at 1.0 x symbol rate is < -30 dBc .
Uplink Power Control Margin:			0.0	dB		
Phase Combiner Gain:			0.0	dB		
HPA Location:			HUB			HUB, Boom, Shelter, Equipment Room
Composite EIRP:			76.7	dBW		
Composite HPA Power Required:			23.0	dBW		
Composite HPA Power Required:			200	Watts		
PSat HPA Flange Power Required:			26.0	dBW		
PSat HPA Flange Power Required:			398	Watts		
Selected HPA Power:			400.0	W		Psat : 56.0 dBm (400 W) / Plinear : 53.0 dBm (200 W)