

CPI TWTAs: Efficient, Lightweight, Compact

COMPARE the Peak Power 750 W Ku-Band TWTA to a 500 W GaAs based SSPA

This chart compares CPI's Ku-Band 750 W Peak Power TWT-based ODU against a GaAs-based solid state ODU, based on published data. For more information, contact your local CPI representative today or visit us at www.cpii.com/satcom.

	CPI TL07UO 750 W TWTA		500 W GaAs-Based SSPA	
Operating Frequency (GHz)	Up to 1750 MHz in Ku-Band	✓	Up to 750 MHz in Ku-Band	
PLINEAR <i>where IMD = -25 dBc or better with two EQUAL carriers</i>	300 W (55.0 dBm) w/lin	✓	200 W (53.00 dBm)	
Power Consumption	1500 W at PLINEAR	✓	4000 W at PLINEAR	
Power Efficiency at Plin	20%	✓	5%	
Operating Cost per Year		✓	167% More Expensive	
Cost per Linear Watt		✓	300% More Expensive	
Heat Dissipation	950 W nom.	✓	3600 W nom.	
Weight	34.1 kg	✓	80 kg	
Volume	53,548 cubic cm	✓	142,847 cubic cm	

Summary: CPI's 750 W Peak Power TWTA is 1/3 as expensive to operate as the SSPA, is less than 1/2 the weight, is less than half the size, has a much lower purchase price, and produces 50% more linear power.