CPI TWTAs: Efficient, Lightweight, Compact

COMPARE the SuperLinear® 2.25 kW C-Band TWTA to a 1.5 kW GaAs based SSPA

This chart compares CPI's C-Band 2.25 kW SuperLinear TWTA against a GaAs-based solid state amplifier, based on published data. For more information, contact your local CPI representative today or visit us at www.cpii.com/satcom.

	CPI TL22CI TWTA		1500 W GaAs-Based SSPA	
Operating Frequency	Up to 1225 MHz in C-Band	✓	Up to 875 MHz in C-Band	
PLINEAR *where IMD = -25 dBc or better with two EQUAL carriers*	890 W (59.49 dBm) w/lin	✓	676 W (58.3 dBm)	
Power Consumption	4.4 kVA at PLINEAR	✓	7.0 kVA at PLINEAR	
Power Efficiency at Plin	20.2%	✓	9.7%	
Operating Cost per Year		✓	59% More Expensive	
Cost per Linear Watt		✓	109% More Expensive	
Heat Dissipation at Lin OP	4000 W max.	✓	6300 W nom.	
Weight	70.5 kg (155 lbs)	✓	140 kg (309 lbs)	
Size	9 RU	✓	16 RU	

Summary: CPI's 2250 W Superlinear TWTA is much less expensive to operate than the SSPA, is half the weight, is significantly smaller, and produces 30% more linear power.

Communications & Power Industries
satcom products