

CPI TWTA Technology Advancements

TWTAs still lead the way in efficiency, capacity, lower lifetime cost

Palo Alto, California, March 15, 2010 – Today, CPI announced that ongoing improvements in its C band Compact High Power Amplifier (CHPA) have resulted in increasingly superior efficiency and lower lifetime cost. Prime power for the 750 W CHPA is only 2.1 kW when running at saturated power. Operation at a linear 325 W output power consumes only 1.75 KVA at linear power.

“Broadcast and content operators are looking for solutions to improve their ROI by reducing energy and operating costs,” stated Andy Tafler, president of the Satcom Division of CPI. “It is often thought that new advances in solid state technology have made solid state products as efficient as TWTAs, but in fact a minimum 30% energy penalty is paid when using solid state at higher power levels, even those SSPAs that make use of spatial combining. As energy and facility costs continue to escalate, integrating our more reliable and efficient amplifiers makes sense.”

“Better efficiency also brings longer life. Heat is the primary cause of failure in most electronic products, including amplifiers. It therefore stands to reason that more efficient products, such as CPI's C-band CHPA, will last longer with higher MTBF.”

“The world is becoming aware that adopting a low carbon footprint and green approach can also mean saving money,” said Mike Cascone, Director of Applications. “CPI's MSDC technology allows operators to hold the line on expenses and avoid extensive system redesigns, while still getting the performance and reliability needed to help keep their broadcast systems running with zero downtime well into the future.”