

## Crossed-Field Amplifier (CFA) L4806

Stellant Systems' Crossed-Field Amplifiers (CFA) are non-linear saturated amplifiers characterized by high efficiency, moderate gain and bandwidth, and low noise performance. They are also relatively small and lightweight, operate at low voltages yet are capable of extremely high peak powers. For this reason, they are attractive choices for mobile, shipboard and airborne radar applications. Excellent phase coherency, control and linearity make the CFA an excellent choice for phased-array applications.

At Stellant, the latest technology serves as a starting point for continuous innovation. They employ the most experienced CFA engineers and physicists, and strive to produce better products through advanced material, design and technique development.

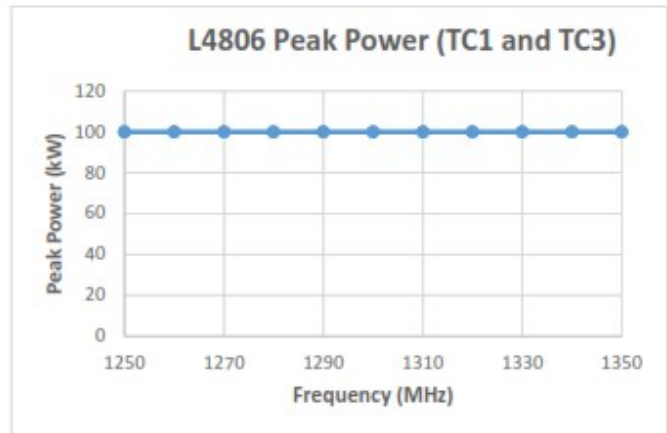
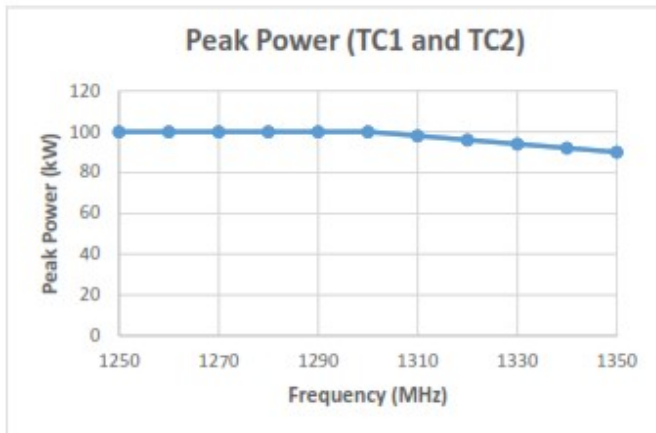
In cases where a customer requires a device with a tailored specification, scaling of an existing CFA to meet the requirements can be accomplished.



Cross-Field Amplifier

# Cross-Field Amplifier (CFA) L4806

SPECIFICATION	COMPETITOR PRODUCT	L4806
FREQUENCY	1.25 - 1.35 GHz	1.25 - 1.35 GHz
PEAK POWER OUTPUT	90 kW	100 kW
DUTY CYCLE	0.032	0.032
ANODE VOLTAGE	11 kV	11 kV max
ANODE CURRENT	25 amps	30 amps max
PULS WIDTH	40 microseconds	40 microseconds
COLD CATHODE	Yes	Yes
WATER COOLED ANODE	Yes	Yes
EQUIVALENT TO RAYTHEON QKS-1319	No	Yes
MINIMUM EFFICIENCY	?	45%



**Stellant Systems** is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world.

We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical and industrial customers worldwide.

[www.StellantSystems.com](http://www.StellantSystems.com)

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