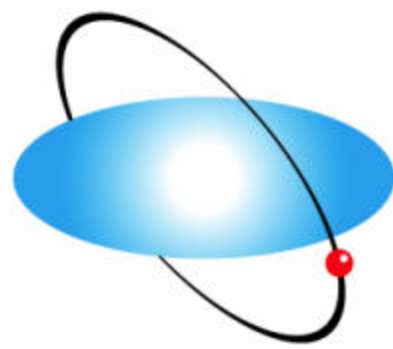


Introducing the AM61 X-Band Klystron Driver SSPA Range



microwave amps

For **All** Your L, S, C, X-Band SSPAs

www.microwaveamps.co.uk

Technology advancements continue to play an important role in the development of High Energy Physics RF systems. [Microwave Amps](#) has long been associated with these advancements having supplied Solid State Power Amplifiers (SSPAs) for such applications for over 15 years. The capabilities of semiconductor technology have been expanded very considerably over that period with a five-fold increase in power density at S-Band, and up to a ten-fold increase at C-band frequencies. Now it is commonplace for SSPAs to be used to either drive cavities directly, or as part of a high-power system driving Klystrons.

SSPAs have significant advantages over tube technologies. Improved stability, ease of control, efficiency, cost, and crucially the lifetime of the product. We would expect any of our SSPAs to have at least a 10-year lifetime in operation without any degradation in performance. The ability to run these units from standard low voltage power supplies also eliminates the problems and potential hazards of using high voltages. A choice of configurations are available to system designer, either AC Racks or DC Modules, both with a selection of control and monitor options and self-protection features.

[Microwave Amps](#) are proud to present the [AM61 X-Band](#) series of amplifiers. For 11.424GHz or 11.992GHz frequency operation. Power output levels of 400W, 800W, and 1.2kW are available with duty up to 10% The input is a standard SMA connector, with the output being Waveguide, either WR75, or WR90.

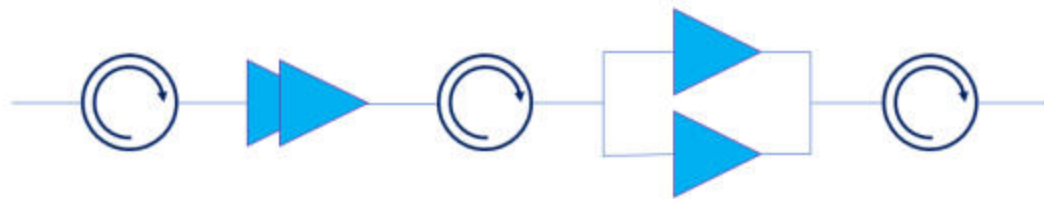
The focus of the design has been to achieve the highest practical level of output, whilst preserving the amplitude and phase characteristics of the source signal. Reports from users have been extremely complementary, with RMS amplitude stability of 0.02% and phase stability 0.036 degrees achieved, with output power up to 1.4kW.



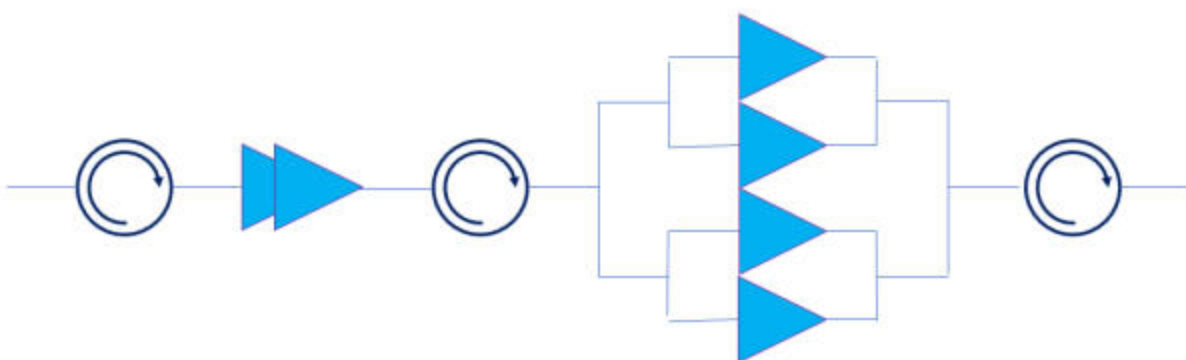
Typical Line-Ups



400W Pulsed to drive the Toshiba 6MW Klystron

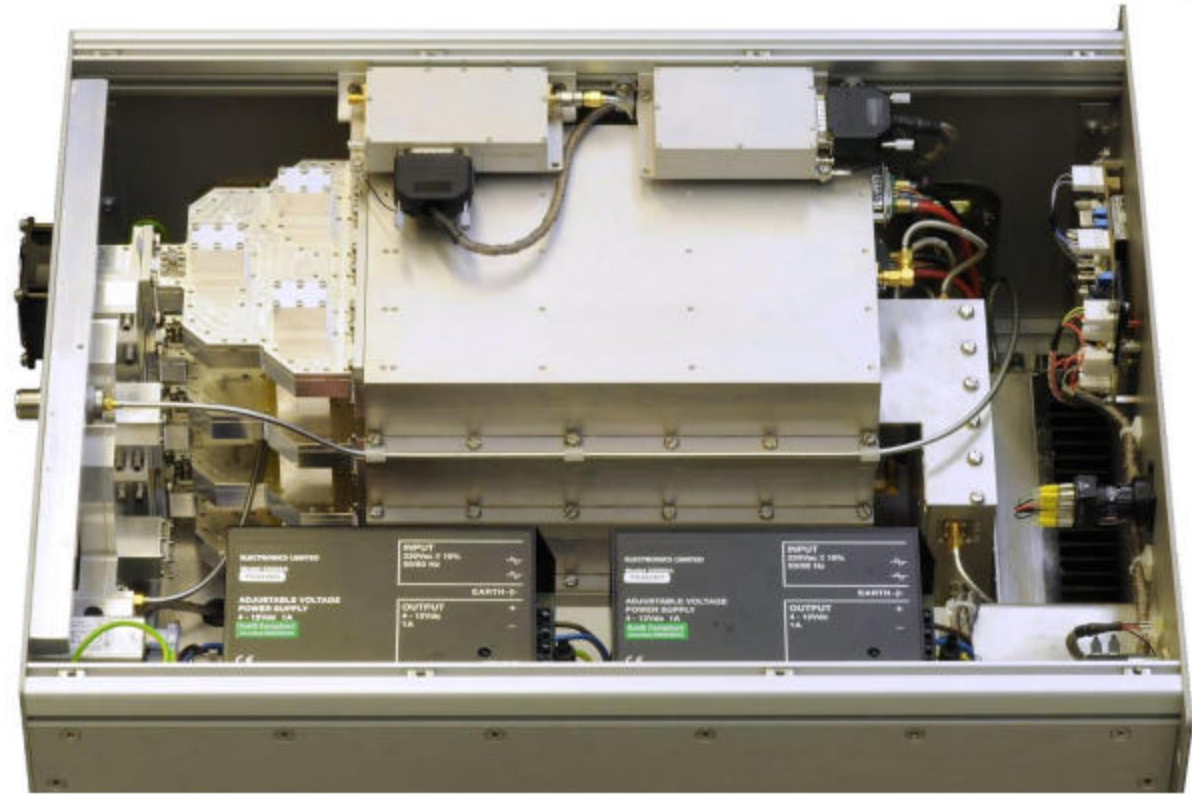


800W Pulsed to drive the CPI 50MW Klystron



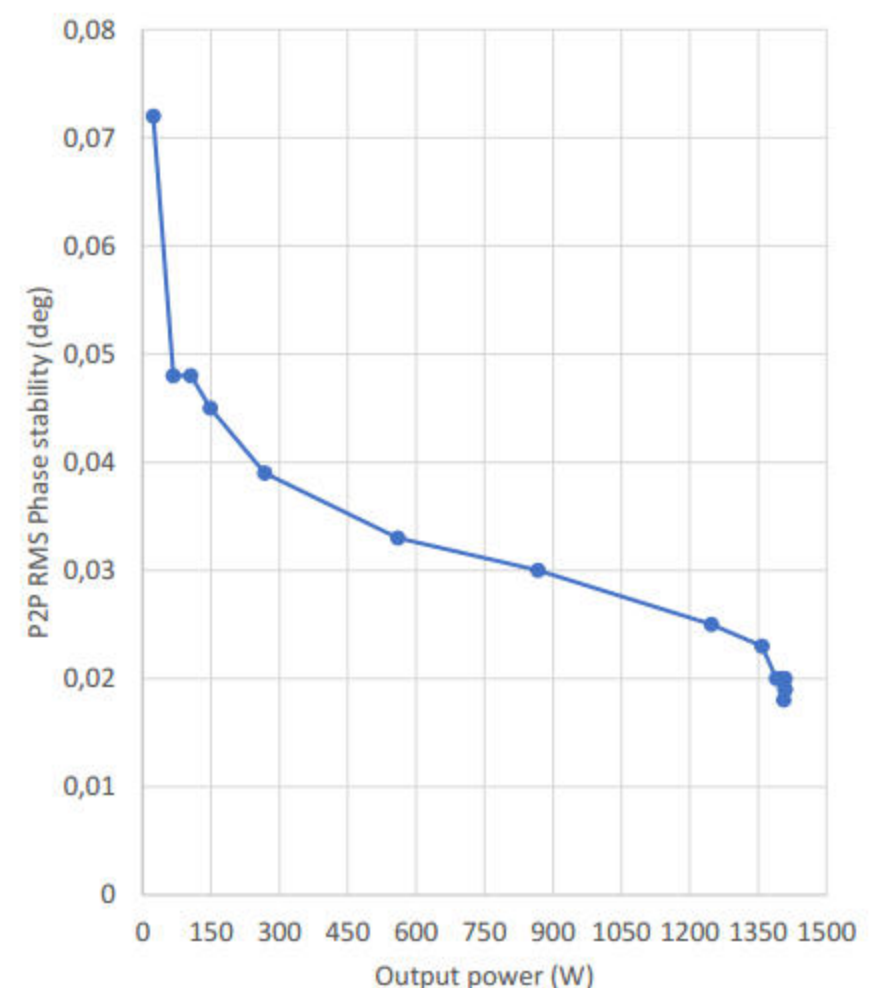
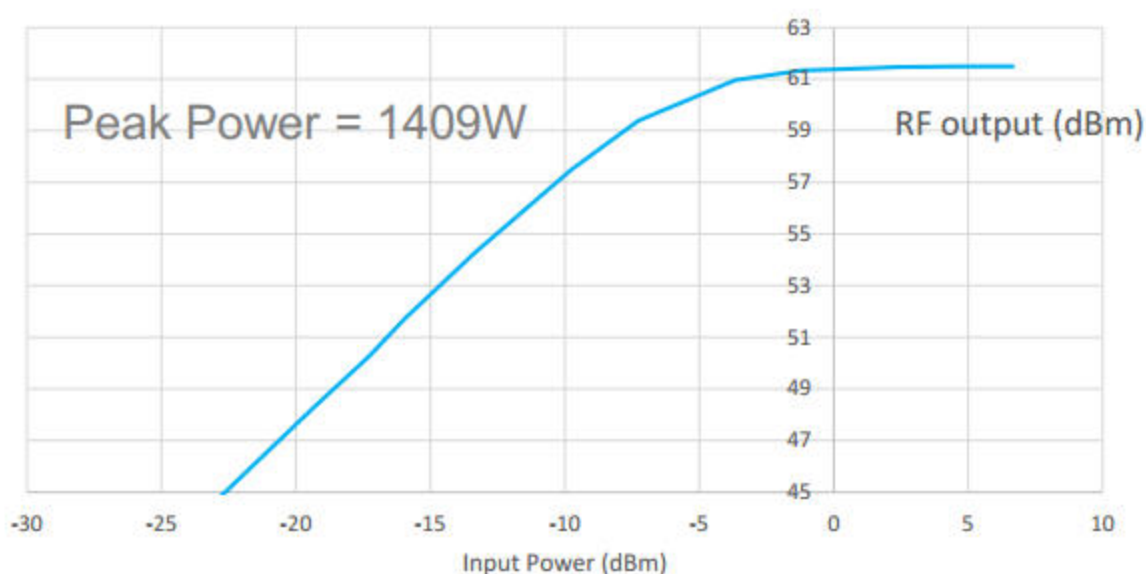
1.2kW Pulsed to drive the CPI 50MW Klystron

Internal View



Pulsed Phase Stability

1.2kW Pulsed SSPA



Microwave Amps will continue to offer new innovative solutions and supply amplifiers for frequencies of 704MHz, 1.3GHz, 2.1GHz, 2.856GHz, 3.9GHz, 5.7GHz, 9.2GHz, 11.424GHz and 11.992GHz, both Pulsed and CW, up to power levels of 25kW, in AC powered Racks, or DC powered Modules. If you have a requirement, please don't hesitate to contact us on sales@maltd.com or visit our website www.microwaveamps.co.uk

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