

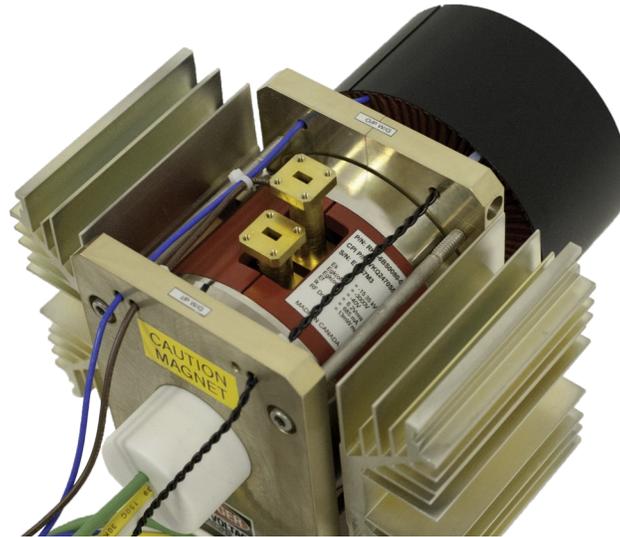
HIGH POWER mmW AMPLIFIER

35 GHz 3500 Watt Pulsed Amplifier

Model VKQ2470 is a series of air cooled pulsed Extended Interaction Klystrons used for radar, instrumentation and scientific applications.

Frequencies are available from 31 GHz to 38 GHz typically producing 3500 Watts peak power with a 1dB bandwidth of 250 MHz. This high gain vacuum electron device is remarkably compact, exceptional reliability and has a highly stable output.

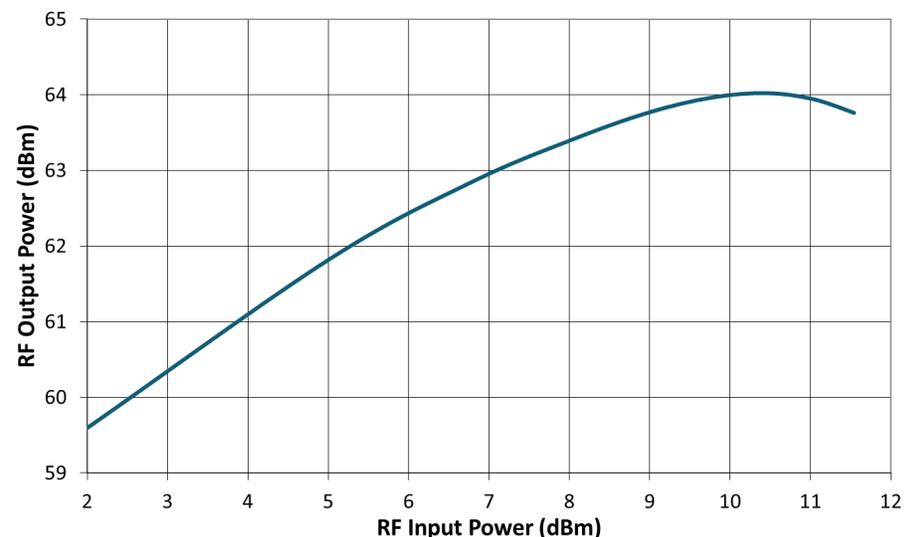
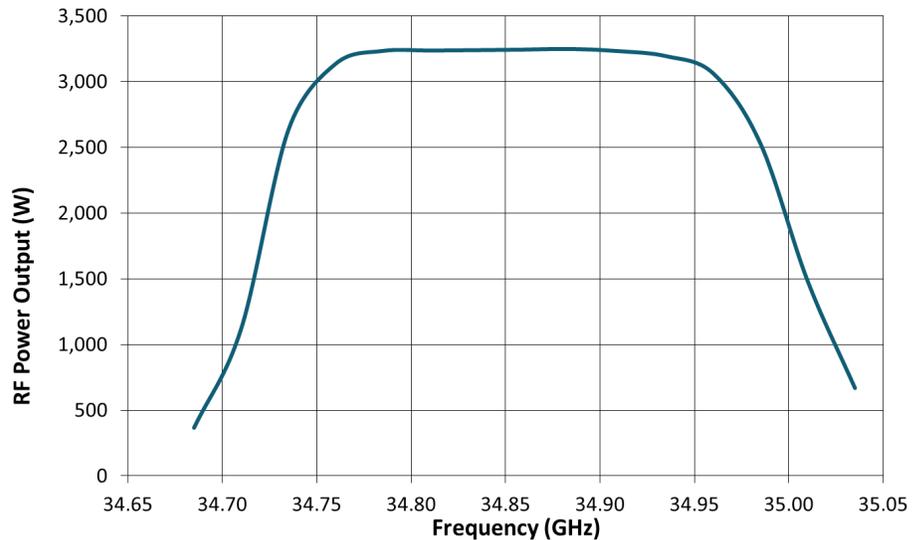
The VKQ2470 series of EIKs may be integrated with the CPI VPW3493 series of power supply/modulators resulting in a compact self-contained and highly reliable transmitter sub-system.

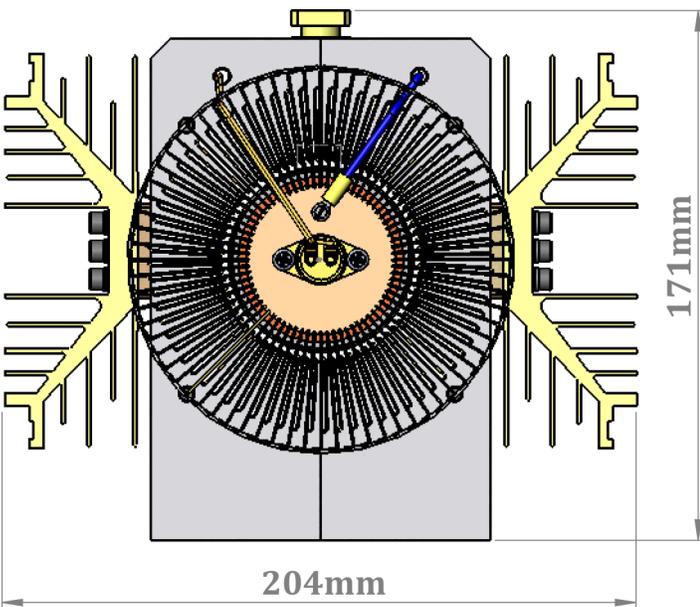
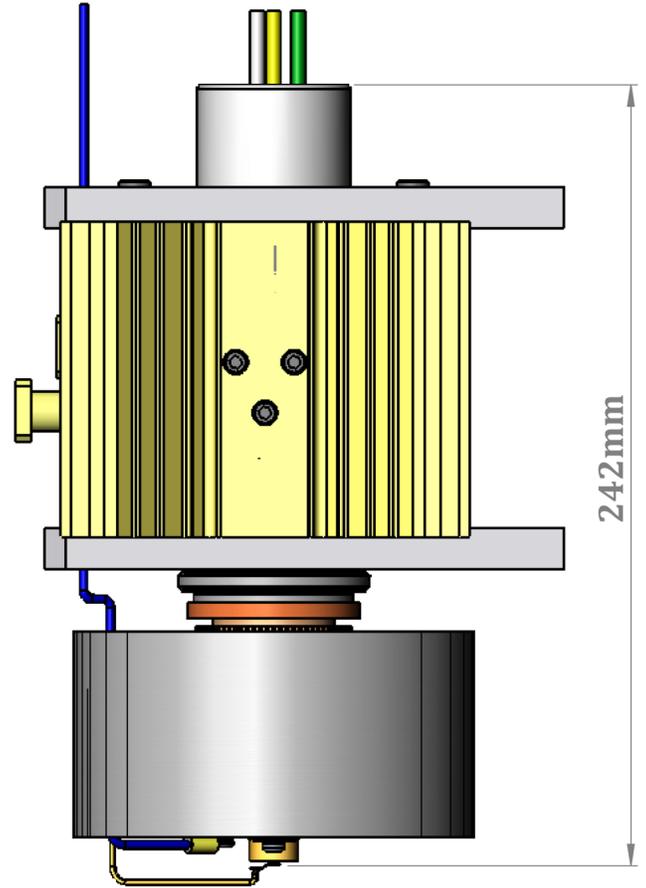
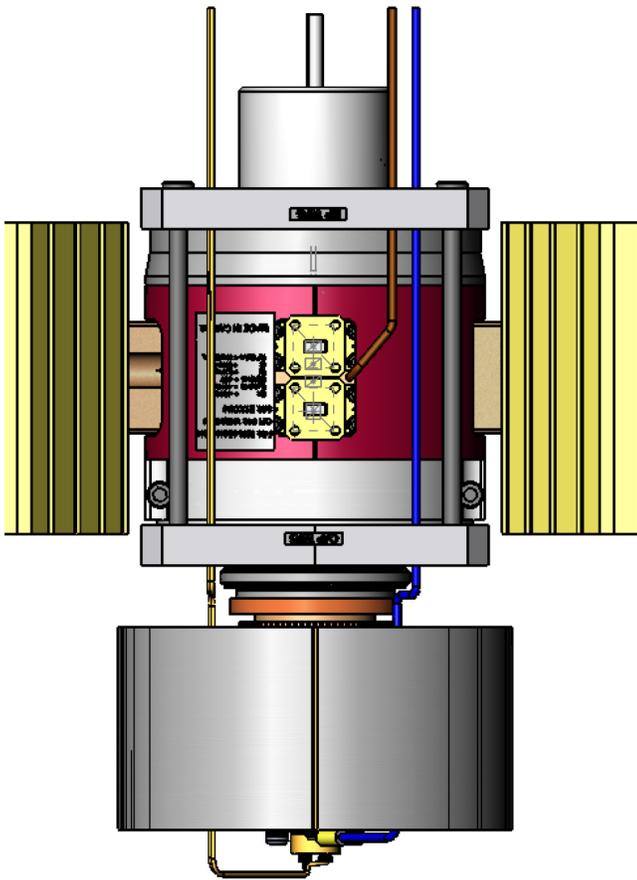


Model VKQ2470

Features	
Center Frequency Range	31 to 38 GHz
Power Output (Peak)	3,500 W
Bandwidth (-1dB)	250 MHz
Drive Power Saturation	20 mW
Cathode Voltage	-16 kV
Cathode Current	730 mA
Temperature Operating	0 to +50 °C
Temperature Non-operating	-40 to +60 °C
Humidity	95% relative non-condensing
Altitude	3,000 m

Pulse Capability	
Pulse Voltage	+3.0 kV
Pulse Width	Up to 100 μ s
Duty Cycle	Up to 15%
Rise/Fall Time	10 ns





Mechanical

Waveguides	WR-28
Flanges	Rectangular, compatible with UG-599/U
Power Supply Connections	Color Coded Flying Leads 450 mm Max. Length
Weight	11 kg Max.

Options

Fixed Center Frequency in the range of 33 – 50 GHz
Space Qualified and Air-borne EIKs
Power Supply, DC or AC Prime Power
Duty Cycle up to 25%