

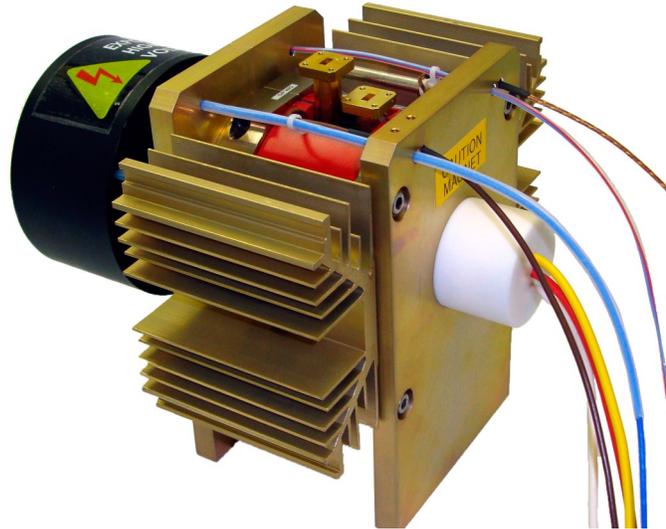
# HIGH POWER mmW AMPLIFIER

## 35 GHz 1,000 Watts CW Amplifier

Model VKQ2488 is an air cooled continuous wave (CW) Extended Interaction Klystron Amplifier (EIK) used for communication applications.

Frequencies are available from 34 GHz to 36 GHz producing up to 1,000 Watts of CW power with a -1dB bandwidth of 500 MHz. This high gain vacuum electron device (VED) is remarkably compact, has long life and highly stable output.

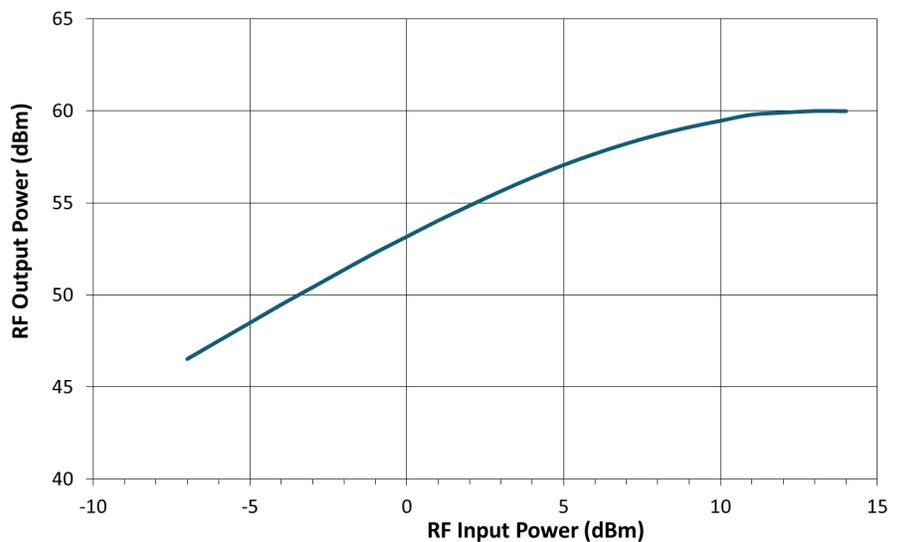
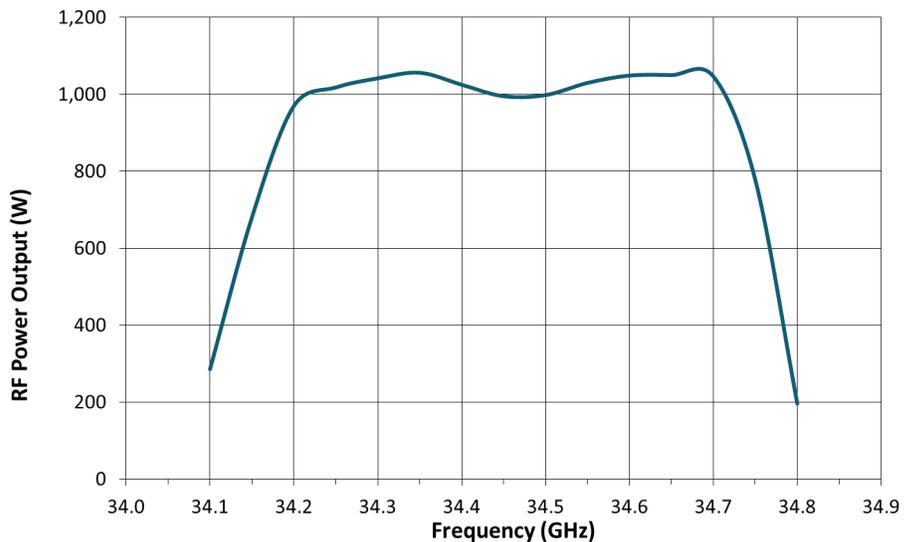
The VKQ2488 series of EIKs may be integrated with the CPI VPW2827 series power conditioner resulting in a compact self-contained and highly reliable High Power Amplifier (HPA) transmitter subsystem.

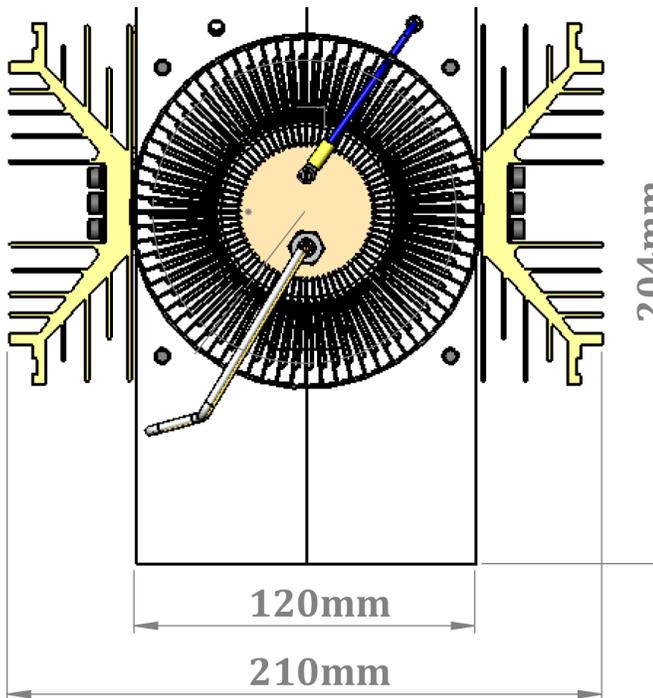
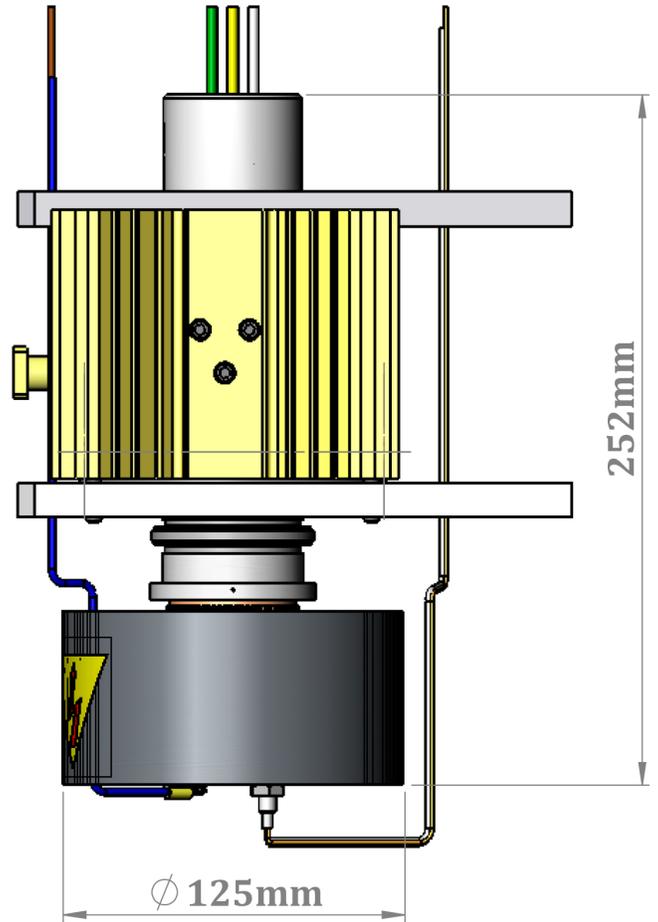
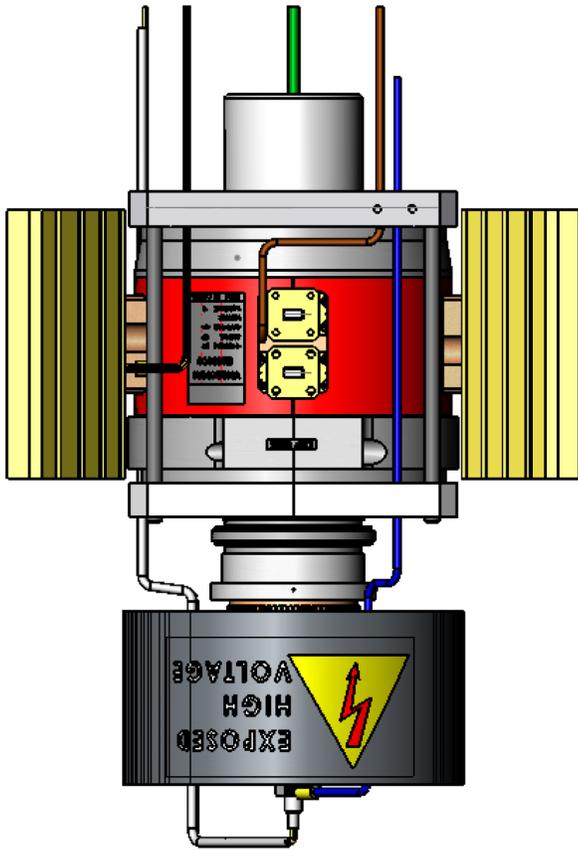


Model VKQ2488

Features	
Center Frequency	34 to 36 GHz
Power Output (CW)	1,000 W
Gain	48 dB
Bandwidth (-1dB)	500 MHz
Drive Power Saturation	16 mW
Cathode Voltage	-9.8 kV
Cathode Current	470 mA
Temperature Operating	0 to +50 °C
Temperature Non-operating	-40 to +60 °C
Humidity	95% relative non-condensing
Altitude	3,000 m

Cooling	
Type	Forced Air
Flow Rate	285 kg/hr
Pressure Drop	150 Pa





### Mechanical

Waveguides	WR-28
Flanges	Rectangular Compatible with UG-599/U
Power Supply Connections	Color Coded Flying Leads 450 mm Max. Length
Weight	15 kg Max.

### Options

Fixed Center Frequency in the range of 34 – 36 GHz
Space Qualified and Air-borne EIKs
Power Supply, DC or AC Prime Power