

HIGH POWER mmW AMPLIFIER

263 GHz 25 Watt Pulsed Amplifier

Model VKY2492 is a series of liquid cooled pulsed Extended Interaction Klystrons used for radar, instrumentation and scientific applications.

Frequencies are available from 250 GHz to 276 GHz producing from 10 to 25 Watts peak power with a -6dB bandwidth of 800 MHz. This high gain vacuum electron device is remarkably compact, exceptional reliability and has a highly stable output.

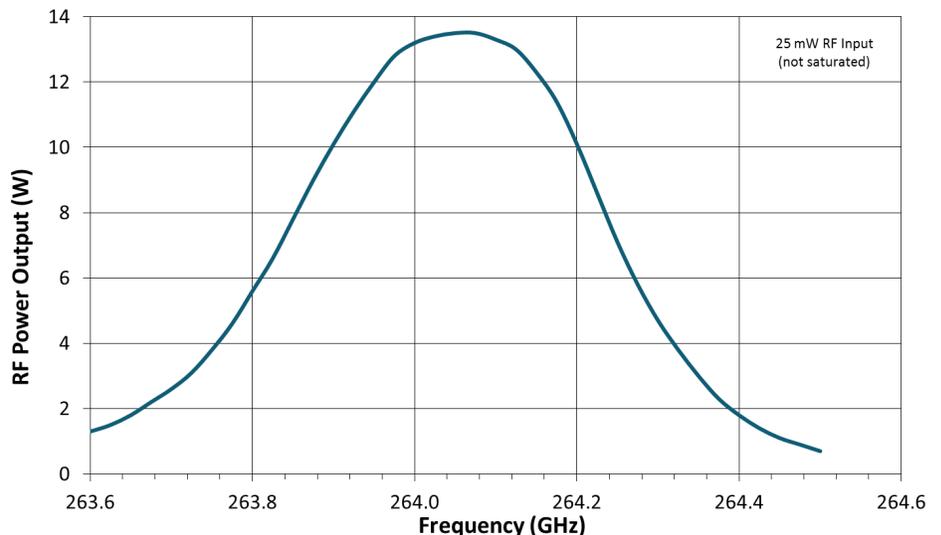
The VKY2492 series of EIKs may be integrated with the CPI VPW3493 series of power supply/modulators and VJB2002 series heat exchanger resulting in a compact self-contained and highly reliable transmitter subsystem.

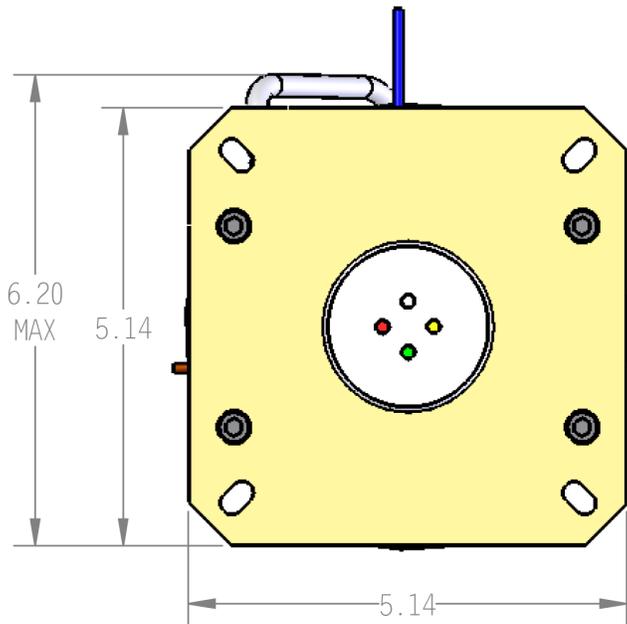
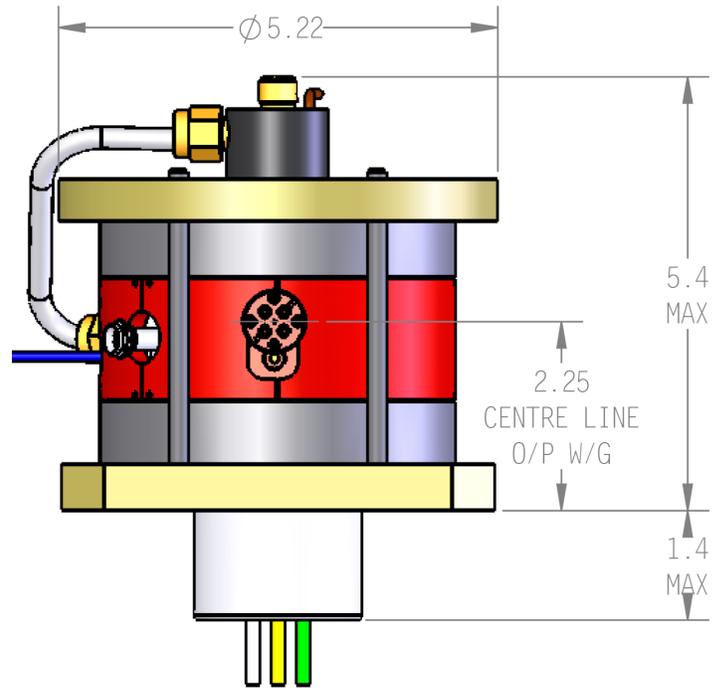
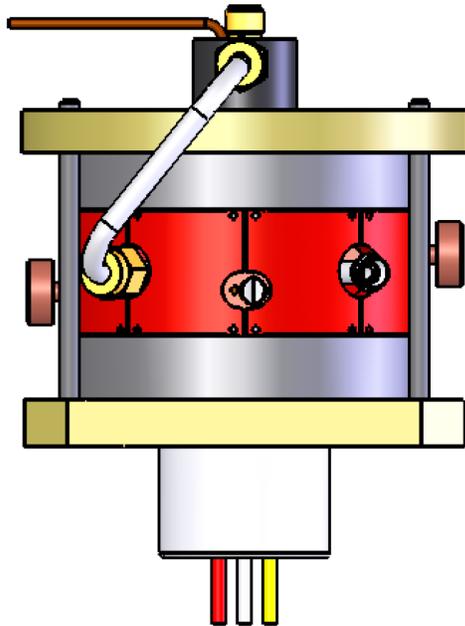
Model VKY2492



Features	
Center Frequency Range	250 to 276 GHz
Power Output (Peak)	25 W
Bandwidth (-6dB)	800 MHz
Drive Power Saturation	100 mW
Cathode Voltage	-18 kV
Cathode Current	250 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	-2.5 kV
Pulse Width	Up to 10 μ s
Duty Cycle	Up to 2%
Rise/Fall Time	10 ns





Mechanical

Waveguides	WR-4.3
Flanges	Rectangular, compatible with UG-387/U mod.
Power Supply Connections	Color Coded Flying Leads 450 mm Max. Length
Weight	7 kg Max.

Options

Fixed Center Frequency range 250 – 276 GHz
Power Supply/Modulator
Water chiller with purity measurement & control
Duty Cycle up to 5%