

**High power, microwave and millimeter wave generation from
vacuum power tubes**

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Vacuum power tubes (gyrotron, klystron, gyro-klystron, etc.) are attractive for high power applications such as radar/communications, plasma heating, accelerator, material processing, etc. Over the past two decades, considerable efforts on the development of gyrotron-power coherent microwave and millimeter wave sources were made. Experimental performance on the gyro-devices will be presented.