

VARIAN CANADA MICROWAVE PRODUCTS

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Product/Services: Varian Canada Microwave Products manufactures and markets worldwide microwave and millimeter frequency tubes and subsystems as well as specialized high voltage power systems. A specialty of the Division is high power extended interaction klystrons (EIK's), both oscillators and amplifiers, for cw and pulsed applications from 30 to 280 Ghz. Varian Canada integrates these EIK's in millimeter wave transmitters for ground based, airborne and shipboard radar and communications systems as well as scientific systems. The specialized high voltage power systems (to 100 Kw an 150 kV) utilize state-of-the-art switching techniques applicable to microwave tube, x-ray equipment and semiconductor processing equipment applications. Other tubes and equipment manufactured by Varian Canada include microwave line-of-sight, travelling wave tubes (TWT) and TWT amplifiers from 2 to 14 Ghz and up to 25W cw; power klystrons for military and commercial Satcom and Tropo communications systems from 2 to 14 Ghz and up to 3.5 Kw cw; reflex and millimeter reflex klystrons from and to 300 Ghz.

Varian Canada's customers worldwide include major communication common carriers, scientific agencies and universities around the world, major radar and communications OEM's, the governments of most NATO countries and many commercial and industrial OEM's. The vast majority of Varian Canada's products are exported, mainly to the U.S. with significant and growing markets in Europe and the Far East.

Keywords: microwave, millimeter wave, power supplies, transmitters, radars, klystron, TWT, amplifiers, oscillators, modulator.