

MILLIMETER WAVE PULSED EXTENDED INTERACTION AMPLIFIER

VKB 2469 SERIES

93 - 96 GHz

DESCRIPTION

The VKB 2469 series of Pulsed Extended Interaction Amplifiers (EIA) are targeted for W-Band coherent and non-coherent radar and instrumentation applications. Each EIA delivers in excess of 1 kW of peak power at typical bandwidths (-3 dB) of 500 MHz.

The VKB 2469 series of EIA's are grid controlled and can be integrated with the Varian VPW 2882/2884 series of power conditioners to form a compact self-contained and cost effective transmitter subsystem where high reliability, small size and weight are prime considerations.



TYPICAL ELECTRICAL PERFORMANCE

• Centre Frequency	95 GHz
• Peak Output Power	1.6 kW
• Duty Cycle	1.0 %
• Bandwidth (-3 dB)	500 MHz
• Gain at Output Power	48 dB
• Pulse Width up to	20 μ s
• Cathode Voltage	16 kV
• Peak Cathode Current	590 mA
• Grid Pulse Voltage	2.5 kV

OPTIONS

- Liquid Cooling
- Duty up to 10%
- Higher Peak Power
- Environmental Stress Screening

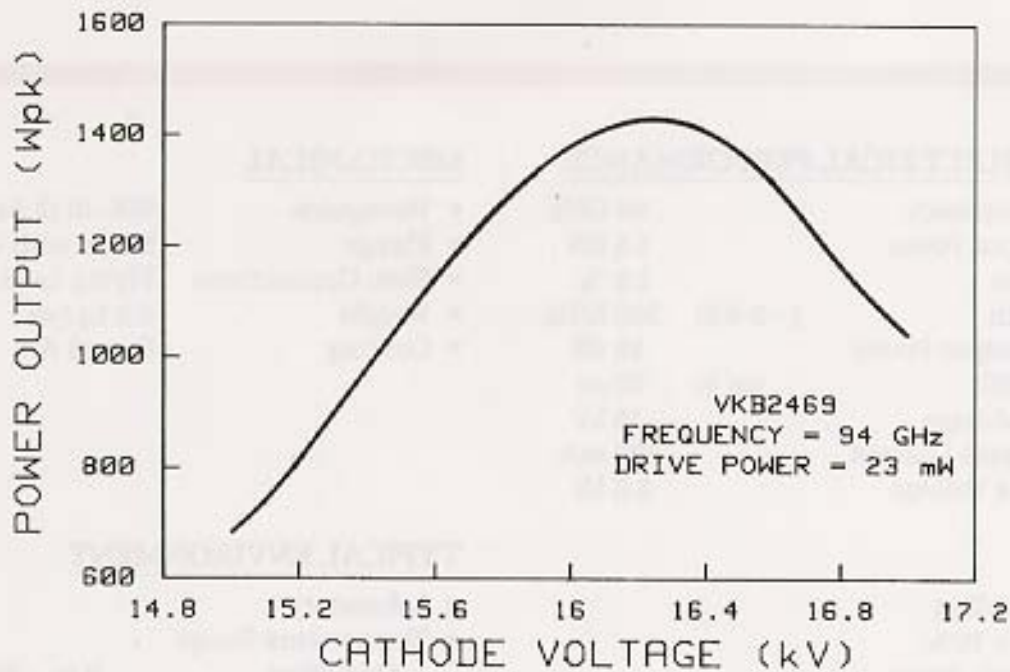
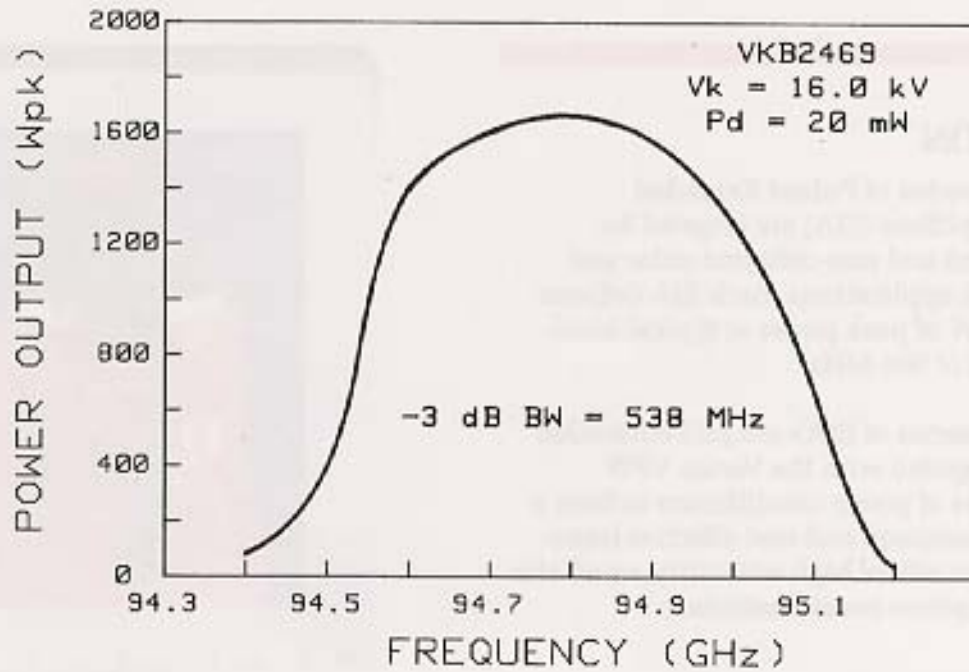
MECHANICAL

• Waveguide	WR-10 (2.54 x 1.27 mm)
• Flange	Mates with UG 387/U Mod
• Elec. Connections	Flying Leads
• Weight	4.2 kg typ.
• Cooling	Forced Air

TYPICAL ENVIRONMENT

• Laboratory	
• Temperature Range	
Operating	0 to +60°C
Non-Operating	-37 to +85°C
• Altitude	
Operating	up to 1,500 m
Non-Operating	up to 12,000 m

TYPICAL CHARACTERISTICS



NOTES:

1. Characteristic values are based on performance tests. These values may change without notice.
2. Please consult your local CPI representative or CPI Canada for more information.