

95 GHz CW Emitter VZB2788A1

DESCRIPTION

The model **VZB2788A1** is a self contained 95 GHz Emitter consisting of an air-cooled Extended Interaction Klystron (EIK), power supply, cooling system, input and output RF components, and supporting electronics for control, monitoring and system protection contained in a wheeled cabinet. Remote operation is available through an interface to a laptop computer using the software provided. This equipment comes with a full complement of operating, control and protective equipment, and supporting documentation.

SPECIFICATIONS	
Operating Frequency:	95.0 GHz \pm 150 MHz
Output Power:	80 W CW
Harmonic Distortion:	-20dBc maximum
Noise Figure:	35dB maximum
RF Output Connection:	WR-10 with UG-387/U flange
Dimensions:	55" H x 23" W x 32" D
Weight:	240 kg.
Primary Power:	220 VAC, 50/60Hz, single phase
Operating Temperature:	+5° to +40° Celsius

FEATURES
<ul style="list-style-type: none">• Front panel control or remote control via rear panel mounted, IEEE-488 bus.• Internal forced air cooling permitting continuous full power operation.



Amplifier Protection:

Over-temperature
RF output mismatch
Waveguide arc

Front Panel Fault / Alarm Display:

High Reflected Power
Waveguide Arc
Tube Over-temperature
Excessive Duty Cycle

Front Panel Gage / LCD or Controller Values:

Forward RF Power
Reverse RF Power
Body Current
Cathode Voltage
Beam Current
Power Supply Temperature
RF Frequency
RF Attenuator Setting

Available accessories:

- Source oscillator with power and frequency adjustment
- High power rated bi-directional coupler
- Integrated dry air pump providing positive air flow within the waveguide.

CPI Canada has developed and manufactured millimetre wave klystrons for over 35 years. We specialize in pulsed and CW devices from 17 GHz to 220 GHz. Many of these pulsed or CW EIKs may be configured for use in high power threat emitter service or customized as required.

The values listed represent typical performance from testing.
Formal controlled specifications, with minimum and maximum values, for use in equipment design, may be obtained from CPI.

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