

HIGH POWER mmW ILLUMINATOR

50 mW, 300 GHz, CW illuminator

Model VQY2135 is a continuous wave (CW) illuminator used for instrumentation, scientific and security applications, primarily as an illumination source for imaging systems. This high power source of millimeter waves improves image fidelity by increasing significantly the signal to noise.

Frequencies are available from 100 GHz to 300 GHz producing up to 50 milliwatts of CW power, facilitating greater subject standoff distance. This device is remarkably compact and rugged, with good frequency stability under adverse environmental conditions making it suitable for semi-portable applications.

The VQY2135 series of illuminators may be integrated with the CPI series of power supplies, resulting in a compact self-contained and highly reliable transmitter subsystem. Custom design capabilities enable tight integration for proprietary imaging systems, providing easy to use and highly capable security solutions.



Model VQY2135

| Features | |
|---------------------------|-----------------------------|
| Center Frequency Range | 100 to 300 GHz |
| Power Output (CW) | 50 mW |
| Cathode Voltage | -10 kV |
| Cathode Current | 80 mA |
| Anode Voltage | 5 kV |
| Heater Voltage | +6.3 V |
| Temperature Operating | +5 to +60 °C |
| Temperature Non-operating | -40 to +60 °C |
| Humidity | 95% relative non-condensing |
| Altitude | 3,000 m |

