Quasi-Optical Broadband Detectors

Quasi-Optical Detector



- Frequency Range 100-1000 GHz
 - Performance expected to ~2 THz
- Responsivity 500 V/W typical
 - NEP \sim 10 pW/rtHz
- Antenna directivity 25-35 dB nom.
- Sub-ns response time



QOD Responsivity Testing

- Use lens to fully couple source power to detector
 - Allows direct measurement of detector responsivity
- Waveguide coupler used to measure transmitted power



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