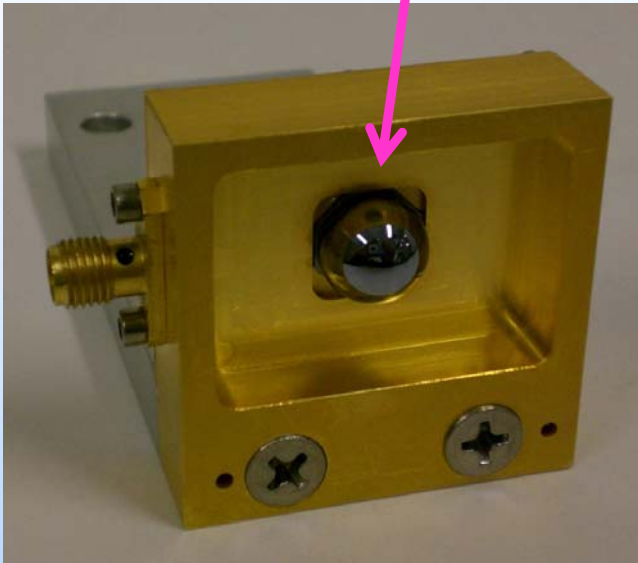
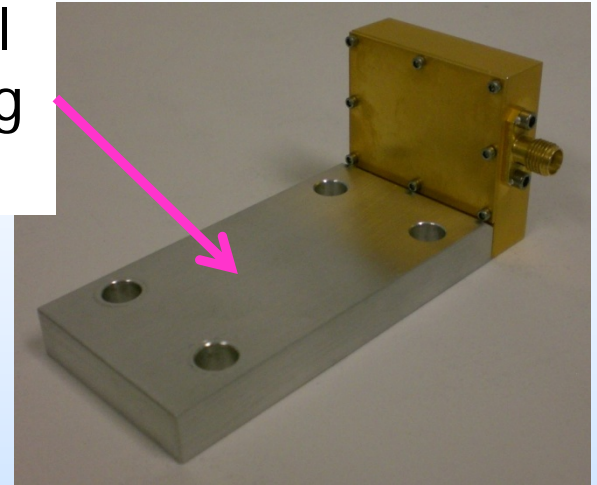


Quasi-Optical Detectors

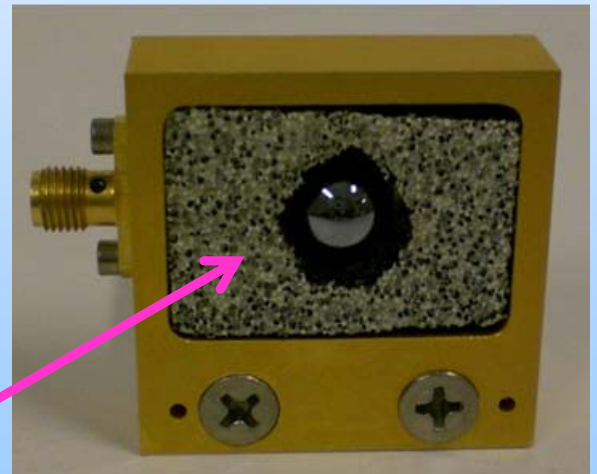
Silicon Lens



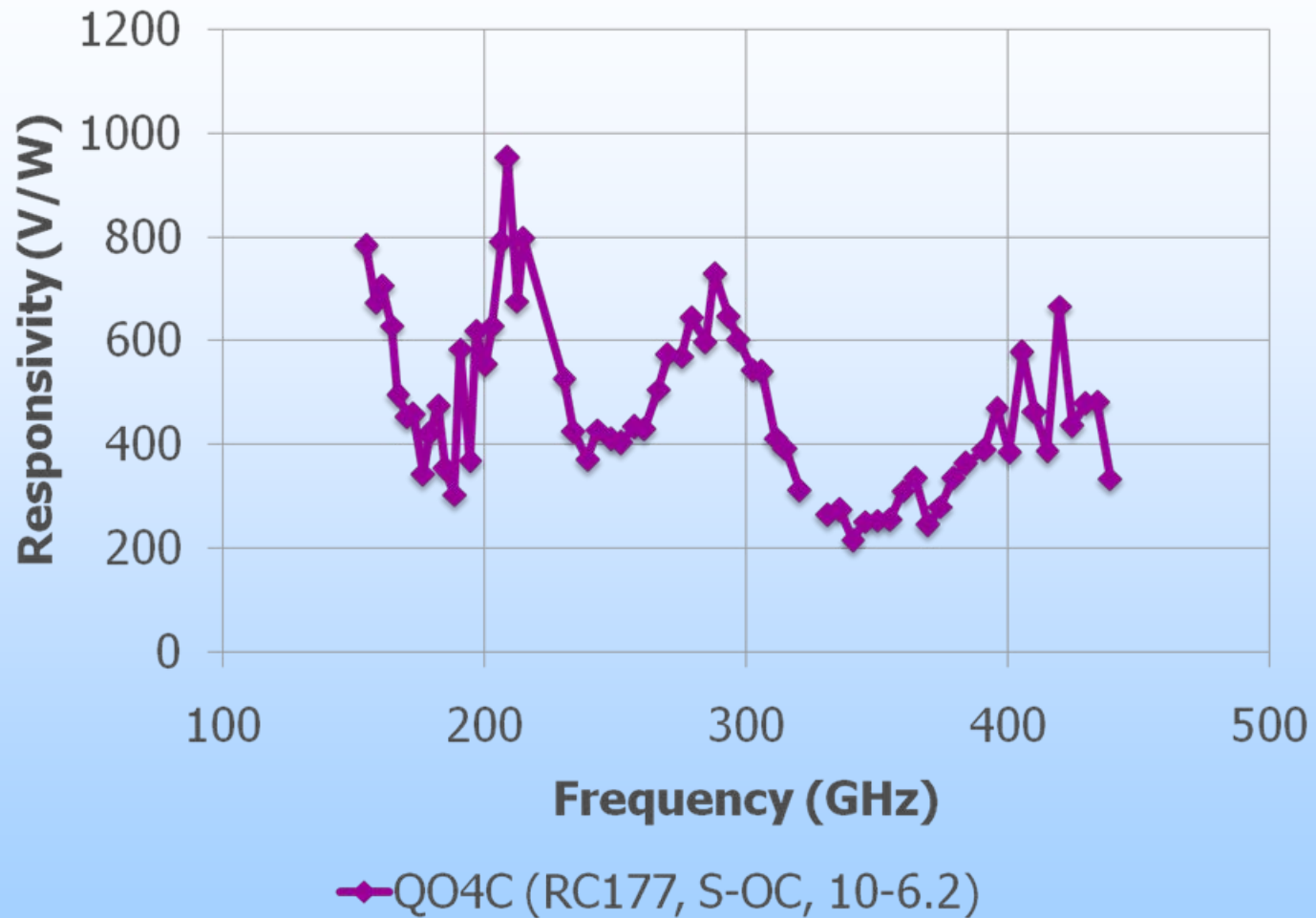
Optional Mounting Plate



Optional Absorber to reduce standing waves



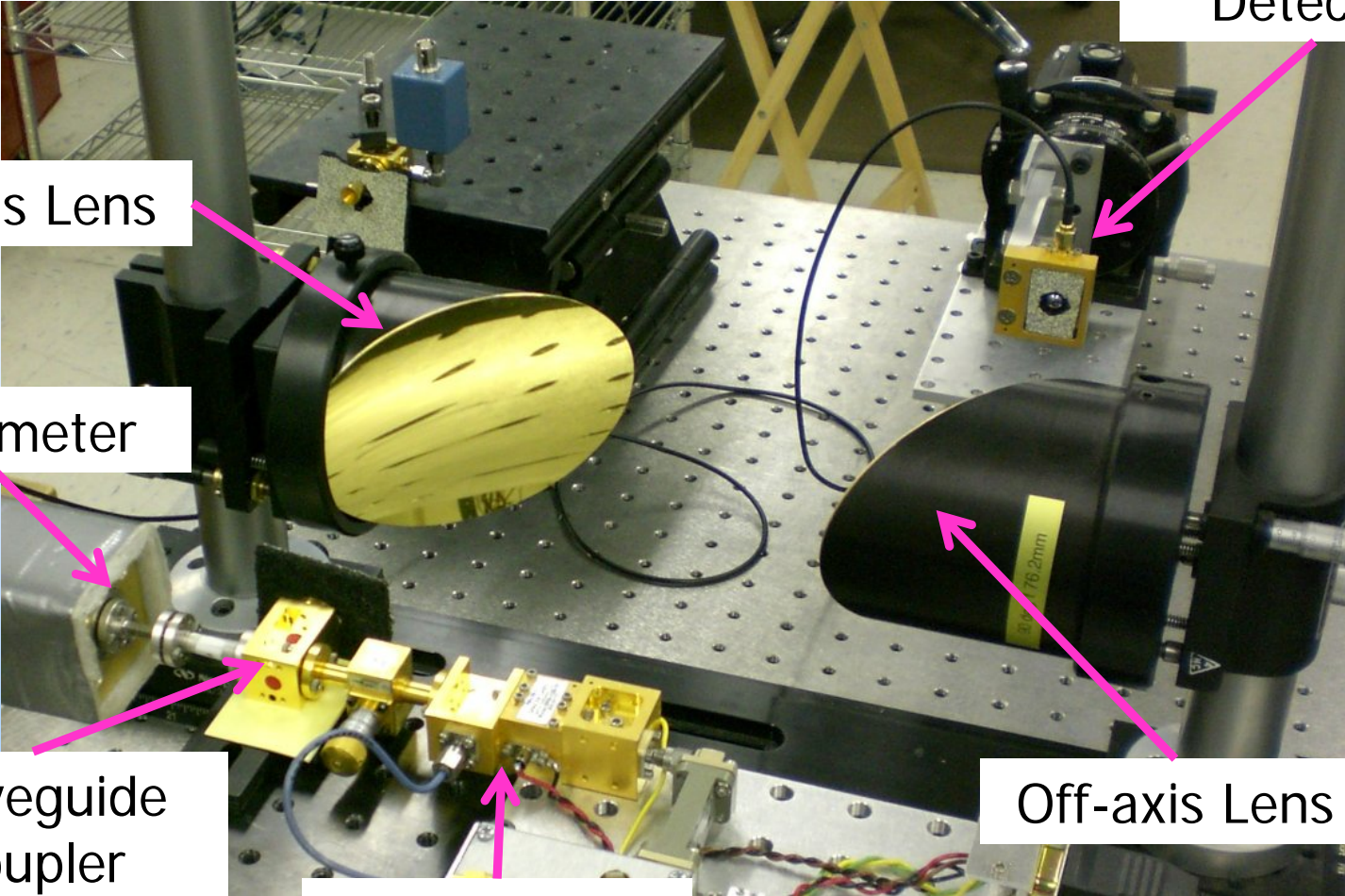
Typical Measured Responsivity of Detector



Quasi-Optical Detector

- Frequency Range 100-1000 GHz
 - Performance to 2 THz
- Responsivity 500 V/W typical
 - NEP ~ 10 pW/rtHz
- Antenna directivity 25-30 dB typ.
- Sub-ns response time

Detector Testing



Detector

Off-axis Lens

Calorimeter

Waveguide Coupler

140-220 GHz Source

Off-axis Lens

