

## Spectral Response

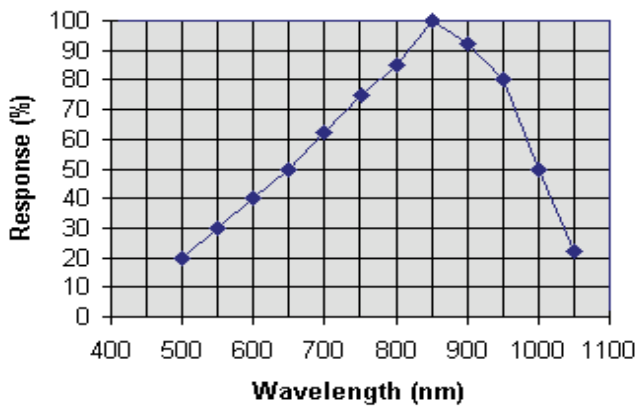
The approximate relative response curves of the detectors employed is as shown below. Note that these are representative curves and do not necessarily correspond to the exact response of the particular detector in use.

The approximate power at the detector surface is given by:

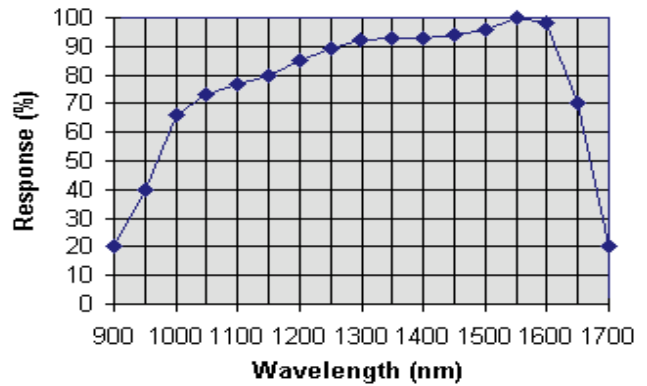
$$\text{Input power in watts (InGaAs)} = \frac{\text{Peak output voltage (no load)}}{0.8 \text{ A/W} \times T_R \times \% \text{ Relative response from graph}/100}$$

$$\text{Input power in watts (Si)} = \frac{\text{Peak output voltage (no load)}}{0.55 \text{ A/W} \times T_R \times \% \text{ Relative response from graph}/100}$$

**TIA-500 Si Detector**



**TIA-500 InGaAs Detector**

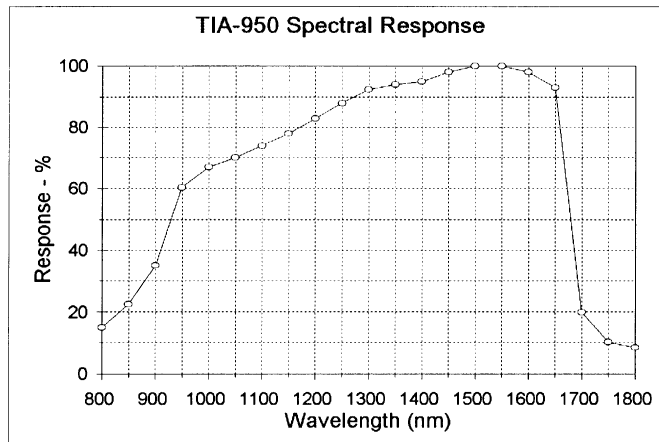


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The bandwidth of the TIA-1200 is from DC to typically 8 GHz (-3 dB ). Refer to the following Bode plot

