

Thermopile Comparison: Thin Film vs. Silicon

Benefits: Thin Film Based Thermopile Detectors

- Higher Output and Sensitivity
- Lower Noise
- Higher S/N Ratio
- Lower Resistance
- Larger Active Area Available
- Greater Flexibility in Responsivity and Time Constant by selecting Back-Fill gas.
See Application Brief 7.
- Proven Technology – In Production Since 1977

Benefits: Silicon Based Thermopile Detectors

- Lower Temperature Coefficient of Responsivity
- Lower Cost (ST60 & ST150 models)
- Smaller Active Areas
- Faster Time Constant
- Response Linear for Higher Incident Power Levels (ST60 & ST150 models)
- Smaller Packages available
- Customizable Multi-Channel Configurations (ST60 & ST150 models)
- Adjustable Responsivity and Time Constant by selecting Back-Fill Gas.
- Proven Technology – In Production Since 1990