Process Platform: Thermopile

- Cumulative Shipments: Over 14,000 wafers
- 1P2M and 2P2M with backside release
- Large suspended diaphragm, over 1.0 mm²
- Better efficiency with an additional black absorber layer
Process Platform: Thermopile

- Absorption area
- Thermal isolation chamber
- Hot junction
- Pad
- Cold junction
Process Platform: Thermopile

Cross-section of one-poly two-metal (1P2M) Thermopile

Cross-section of two-poly two-metal (2P2M) Thermopile

- Layout design comes from customer.
- Fixed process (film stacking and thickness) but adjustable poly sheet resistance.