

Thermo Life™ Characteristics

- Patent Pending Low Power Thermoelectric Generator
- Direct conversion of thermal energy into electrical energy
- Small temperature differences of less than 5 Kelvin (i.e. –between 20 °C and 25 °C) can provide the source of the thermal energy (i.e. – waste heat, body heat)
- Voltage is proportional to temperature difference
 - 5 °C temperature difference generates nearly 6 V open voltage at matched load 3 V, 10 μA of current, 30 μW of power
 - 10 °C temperature difference generates 11 V open voltage at matched load 5.5 V, 25 μA of current, 135 μW of power
- Larger temperature difference creates larger power output with a maximum temperature difference of 100 °C
- Operates efficiently in almost every environment condition with an operating temperature range from 0 °C to 100 °C
- Compact device, miniaturized size and ultra lightweight
- Reliable, shockproof supply with no mechanical parts
- No movement, light or clean environment is required to generate the electrical energy
- Unlimited shelf life and no self discharge
- Solid device, no compressed gases or chemicals, an environmentally “green” renewable energy resource
- Output compatible with the requirements of the latest micro systems

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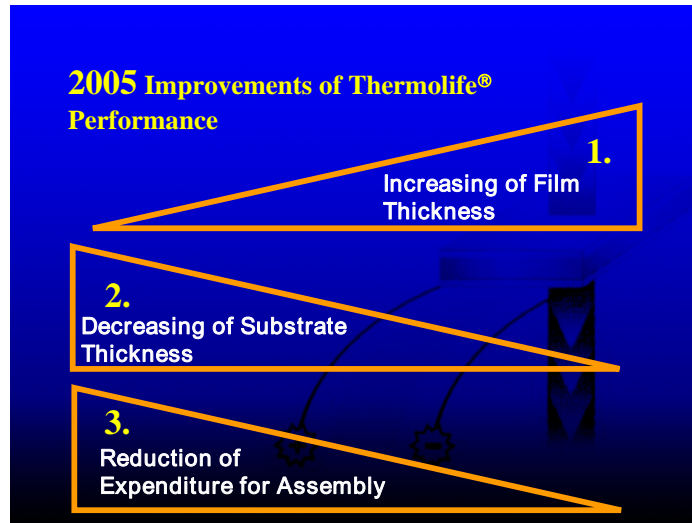
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Improvements for 2005 Creating Increased Performance for Thermo Life™

- Output compatible with the requirements of the latest micro systems
- Increased film thickness
- Decreased substrate thickness
- Lower product cost



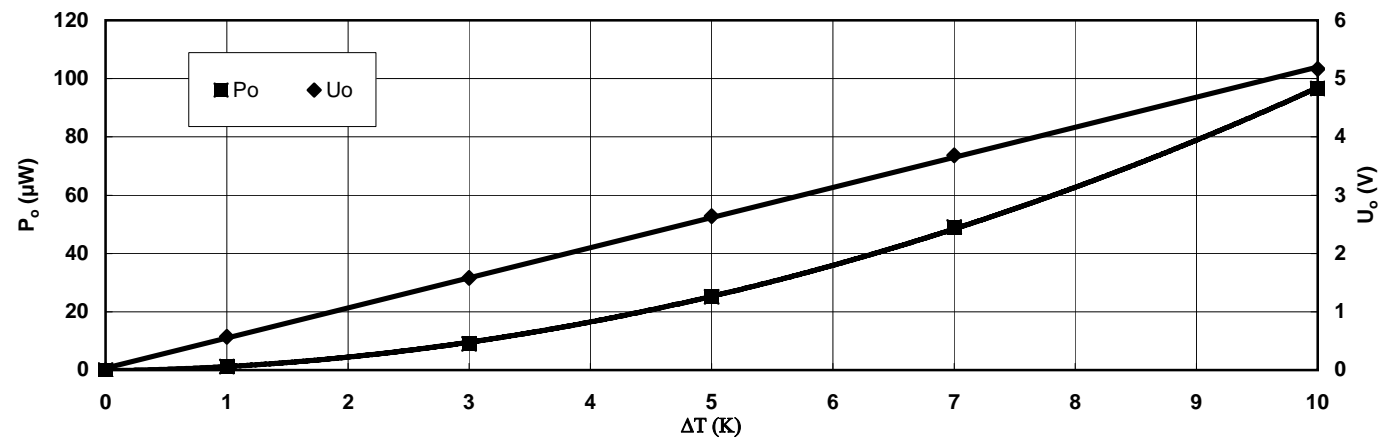
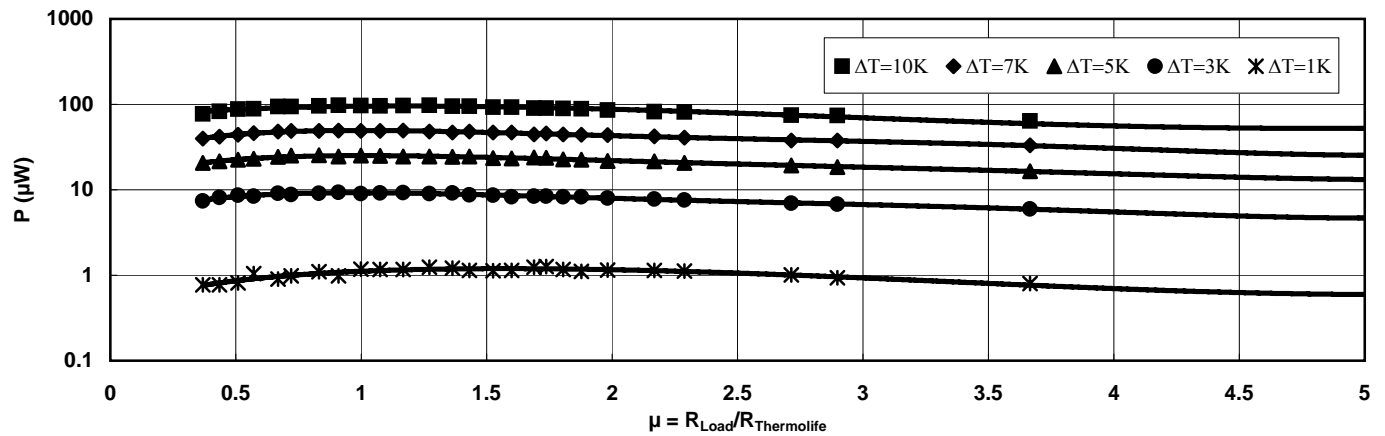
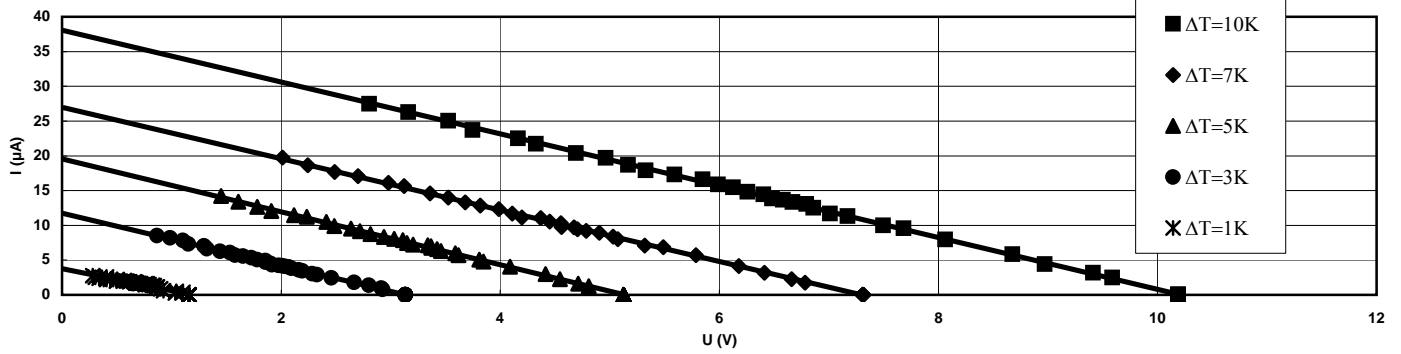
- New round design creating more power output
- New round design contributes to higher conversion efficiency
- New round design is smaller and weighs nearly 50% less than the former Thermo Life™ design



Thermo Life™ Technical Data and Typical Parameters

Technical data and performance of prototype

Sample:
009r



Legend:	U, I, P	Electrical voltage, current, power	General parameter:	Diameter	9.30 +/- 0.05 mm
	$R_{\text{Load}}, R_{\text{Thermolife}}$	Resistance of load and Thermolife		Height	1.40 +/- 0.05 mm
	P_o, U_o	Power, voltage @ $\mu = 1$		Mass	230 +/- 2 mg
	ΔT	Temperature difference		R_{thermal}	42.8 +/- 1.0 K/W
	Measurements @ basic temperature 30 °C				

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