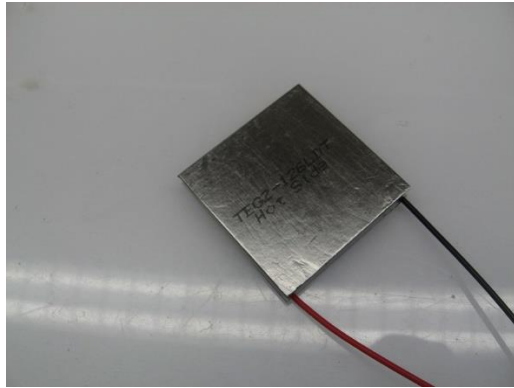




Internet of THINGS POWER



## **TEG2-126LDT for Body & Sensor Power Thermoelectric Harvesting Applications!**

The TEG2-126LDT is a Low Delta Temperature module. Custom designed for “Internet of things” body and micro harvesting applications. Micro Scavenging heat to power sensors is difficult at best. All scavenging devices require autonomous power to be effective and long lasting without unscheduled service appointments to replace batteries.

Most require maybe 1 to 2 volt at 30ma or more, some less? The main consideration is how to design a TEG scavenging module to provide the most power possible given so little DT (Delta Temperature) provided in the application.

The TEG2-126LDT thermoelectric harvesting power module is a cost effective TEG Harvesting power module that provides effective energy harvesting from minimal heat differentials. (Even high heat with low DT's has the exact same principles). So, as long as a minimal temperature differential exists the TEG2-126LDT is the best device for the job.

### **Specially designed TEG2-126LDT.**

- 40 x 40mm x 5.45mm thick
- No perimeter seal to protect against thermal bridging!
- High temperature construction up to 180°C (356°F) hot and cold side!
- Graphite pads on hot and cold side!
- Teflon leads for high temperature protection!
- Ceramic wafers that are thinner for reduced thermal resistance!

### **TEG2-126LDT, 40mmx40mmx 5.45mm overall thickness here are some plotted outputs!**

Th=40, Tc=30C, Voltage at match load 0.2V, Amps at match load: 0.045A, Match load 4.5Ω  
Th=60, Tc=30C, Voltage at match load 0.6V, Amps at match load: 0.11A, Match load 5.2Ω  
Th=80, Tc=30C, Voltage at match load 1.1V, Amps at match load: 0.18A, Match load



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Testing has confirmed with proper heat sink and heat collector design that 2 x TEG2-126LTD modules in Series are able to maintain a 1.5V battery in a sensor design. Again, with multiple units properly designed with heat collector and heat removal designs these devices can charge small 5V device continuously.