

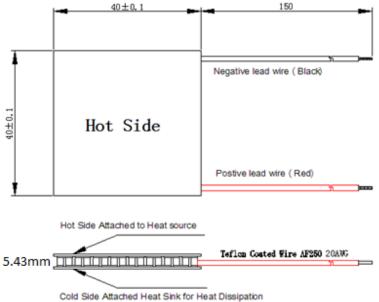
Specifications Wearables/Harvesting Module TEG2-126LDT

Description

The TEG1-126LDT Scavenger module is designed and manufactured specifically for converting low heat sources directly into electricity. The Bi2Te3 based module is doped specifically for low temperature DT (delta temperature), efficiently converting low DT temperatures into electricity. The module is constructed with high thermal conductivity graphite sheets on both sides of the ceramic plates, and extra high element legs.

		200
	Hot Side Temperature (°C)	200
	Cold Side Temperature (°C)	30
	Open Circuit Voltage (V)	8.6
	Matched Load Resistance (ohms)	6.0
A CONTRACTOR OF A	Matched load output voltage	4.3
- C.	Matched load output current	0.7
Luby-	Matched load output power	3.0
	Heat flow across the module	52
	Heat flow density (W cm ⁻²)	3.25
X	AC Resistance (ohms) Measured	3.8-4.2
	Size of the module (mm)	$40\times40\times5.1^{\pm0.1}$

Geometric Characteristics Dimensions in millimeter



Quality control: Its AC Resistance should be within range of 3.8 - 4.2 Ohm under 27 °C.



Performance Curves of Scavenger Module

TEG2-126LDT

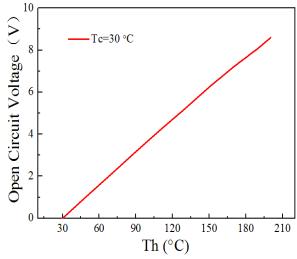
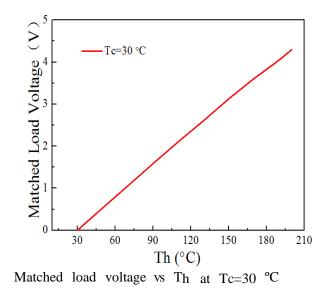
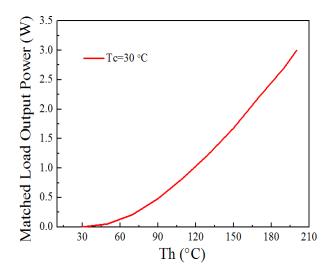


Chart for open circuit voltage s Th at Tc=30 °C





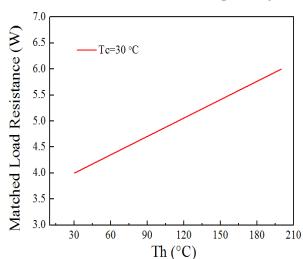
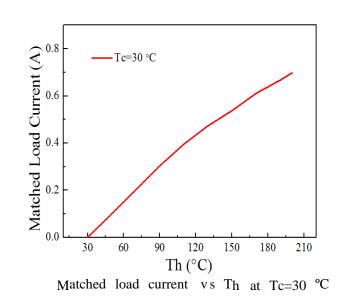
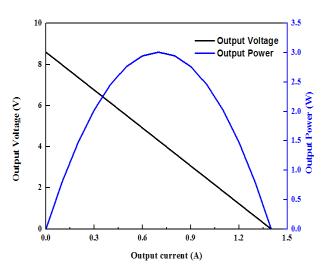


Chart for matched load resistance vs Th at Tc=30 °C





Matched load output power vs Th at Tc=30 °C

Output voltage & output power vs output current under Th=200 °C

& Tc=30 °C



Additional specifications for compressed DT's

Th=40, Tc=30C, Voltage at match load 0.6V, Amps at match load: 0.03A, Match load 4.5 Ω Th=60, Tc=30C, Voltage at match load 1.2V, Amps at match load: 0.07A, Match load 5.2 Ω Th=80, Tc=30C, Voltage at match load 1.5V, Amps at match load: 0.12A, Match load 6.0 Ω Th=40, Tc=20C, Voltage at match load 1.0V, Amps at match load: 0.40A, Match load 5.0 Ω Th=30, Tc=10C, Voltage at match load 1.0V, Amps at match load: 0.40A, Match load 5.0 Ω

Features of the Low DT scavenger device:

- 1. Constructed with a high temperature bonding material to take advantage of elevated but low DT's up to 200°C.
- 2. The scavenger module is designed to slow down heat flow to avoid saturation of the heat removal side, a critical feature of low DT designs to be successful.

Other smaller devices are available to order as a custom design. 10 pc minimums apply.

30 x 30 mm

25 x 25 mm

Smaller devices than above can be designed and manufactured.

Please email us at tecteg@rogers.com for pricing and delivery.

Typical custom manufactured devices take 3 to 4 weeks to manufacture.