

# uTE Thermal-Electric Modules

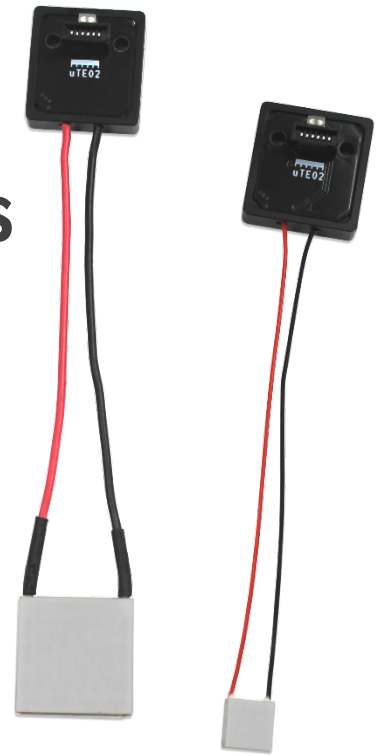
- ▶ Heat and cool microfluidic applications
- ▶ Use with uTS temperature sensors and uProcess software for closed-loop thermal monitoring and control

## Specifications

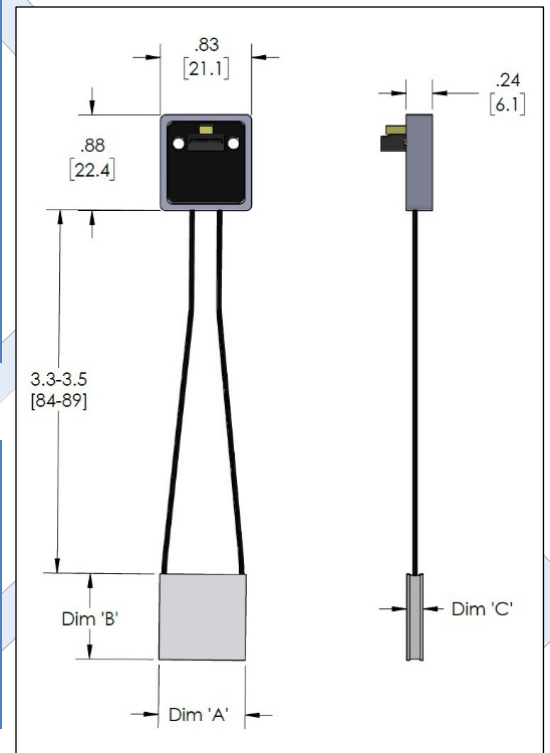
uTE Module      Part Number uTE02-[PELTIER]

<b>Maximum Temperature</b>	130° C (266° F)
<b>Maximum ΔT</b>	67° C (152.6° F)
<b>Mounting Holes</b>	Two 0.125" (3.2 mm) holes, 0.5" (12.7 mm) spacing
<b>EIB200 Automation Interface</b>	Required for control of 4PM01 via uProcess™ software; includes software, LabVIEW™ drivers, and SDK
<b>4PM01 Power Manifold</b>	Required. Connects up to 4 uTE modules via 6-pin flat flex ribbon cable
<b>uTE Heat Sink</b>	Optional. Anodized aluminum, adhesive back. HS-0808 (8.9 x 8.9 mm) or HS-2020 (20 x 20 mm)
<b>Breadboard</b>	Optional for mounting uProcess devices. p/n uPB-05, uPB-08, uPB-12, or iBB.

[PELTIER]	Size (Dim A x B x C)	Qmax	Vmax	I <sub>max</sub>
<b>040808</b>	0.34 x 0.34 x 0.09" (8.3 x 8.3 x 2.3 mm)	4.3 W	3.9 V	2.0 A
<b>132020</b>	0.79 x 0.79 x 0.16" (20 x 20 x 4.0 mm)	13 W	3.7 V	6 A
<b>151530</b>	0.59 x 1.18 x 0.15" (15 x 30 x 3.7 mm)	15 W	4.2 V	6 A



## Dimensions



3D model available upon request