



uTE Thermal-Electric Modules

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

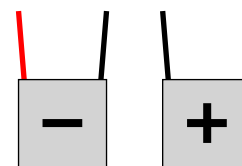
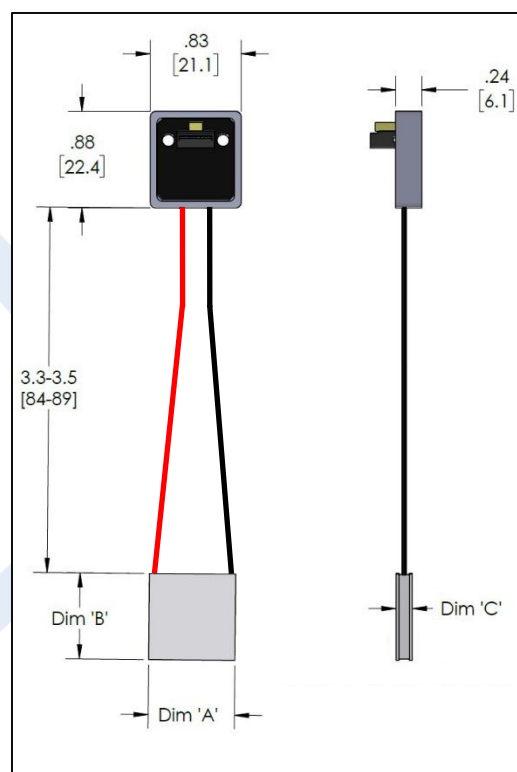
Specifications

uTE Module	Part Number uTE02-[PELTIER]
Maximum Temperature	130° C (266° F)
Maximum ΔT	67° C (152.6° F)
Mounting Holes	Two 0.125" (3.2 mm) holes, 0.5" (12.7 mm) spacing
EIB200 Automation Interface	Required for control of 4PM01 via uProcess™ software; includes software, LabVIEW™ drivers, and SDK
4PM01 Power Manifold	Required. Connects up to 4 uTE modules via 6-pin flat flex ribbon cable
uTE Heat Sink	Optional. Anodized aluminum, adhesive back. HS-0808 (8.9 x 8.9 mm) or HS-2020 (20 x 20 mm)
Breadboard	Optional for mounting uProcess devices. p/n uPB-05, uPB-08, uPB-12, or iBB.

[PELTIER]	Size (Dim A x B x C)	Q _{max}	V _{max}	I _{max}
040808	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
132020	0.79 x 0.79 x 0.16" (20 x 20 x 4.0 mm)	13 W	3.7 V	6 A
151530	0.59 x 1.18 x 0.15" (15 x 30 x 3.7 mm)	15 W	4.2 V	6 A



Dimensions



Polarity: When positive (+) power is applied, the + side will get hot and the - side will get cold. The opposite is true for negative (-) power.