

**MODEL:** CPM-2F | **DESCRIPTION:** PELTIER COOLING UNIT**FEATURES**

- arcTEC™ structure
- better seal structure for water resistance and absorption of thermal stress
- easy installation
- no screws to tighten result in better heat absorption and maximum performance



| MODEL  | input voltage <sup>1</sup><br>max<br>(V) | input current<br>max<br>(A) | output Qmax <sup>2</sup><br>T <sub>h</sub> =50°C<br>(W) | output ΔTmax <sup>2</sup><br>T <sub>h</sub> =50°C<br>(°C) |
|--------|--|-----------------------------|---|---|
| CPM-2F | 12                                       | 6                           | 46  | 73  |

Notes: 1. at inverse voltage, "cold side plate" becomes hot side plate  
 2. maximum cooling capacity at I<sub>max</sub>, V<sub>max</sub> and ΔT=0°C  
 3. maximum temperature difference at I<sub>max</sub>, V<sub>max</sub> and Q=0W (maximum parameters are measured in a vacuum)

**SPECIFICATIONS**

| parameter                        | conditions/description | min  | typ | max  | units |
|----------------------------------|------------------------|------|-----|------|-------|
| internal resistance <sup>4</sup> |                        | 1.85 |     | 2.35 | Ω     |
| cold side plate                  |                        | -20  |     | 60   | °C    |

Notes: 4. measured by AC 4-terminal method at 25°C

**SAFETY & COMPLIANCE**

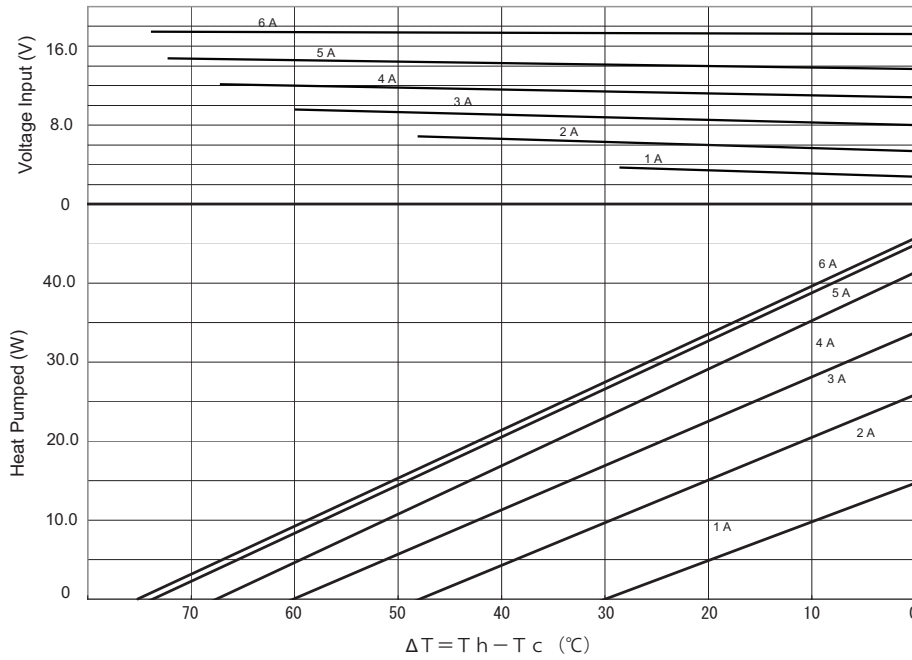
| parameter             | conditions/description     | min | typ | max   | units |
|-----------------------|----------------------------|-----|-----|-------|-------|
| isolation voltage     | for 1 second               |     |     | 1,200 | Vac   |
| insulation resistance | input to output at 250 Vdc | 10  |     |       | MΩ    |
| RoHS                  | yes                        |     |     |       |       |

**ENVIRONMENTAL**

| parameter             | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| operating temperature |                        | 0   |     | 35  | °C    |
| storage temperature   |                        | -20 |     | 70  | °C    |
| operating humidity    |                        | 30  |     | 85  | %     |
| storage humidity      |                        | 10  |     | 90  | %     |

For further information and product selection refer to peltier applicaftion notes.pdf

## CPM-2F PERFORMANCE (Th=50°C)

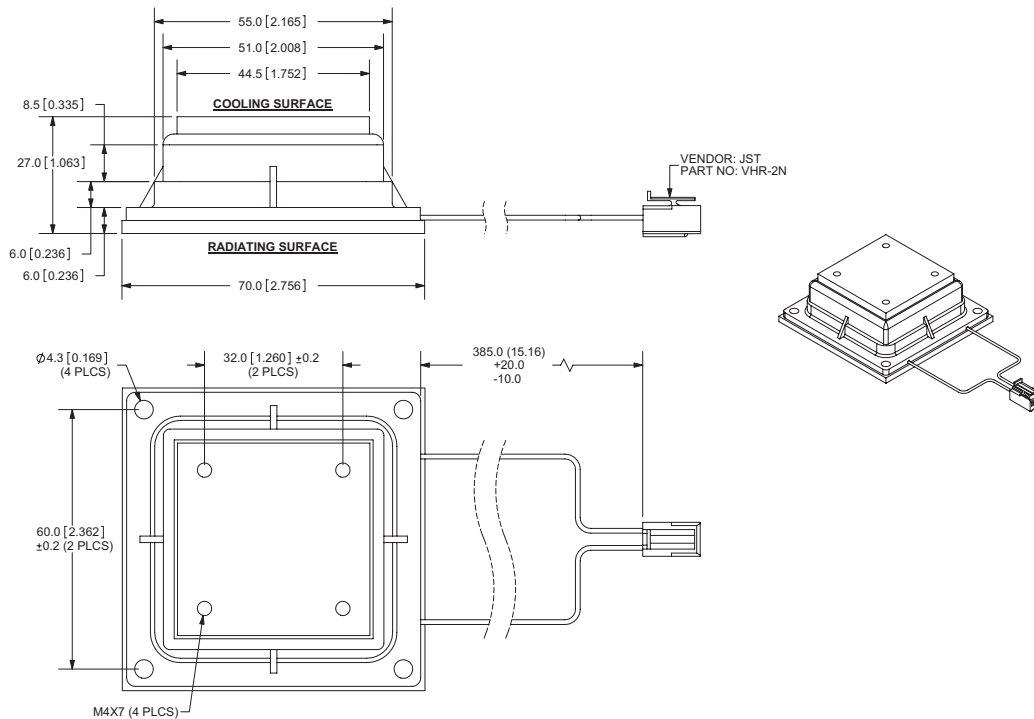


## MECHANICAL

| parameter             | conditions/description | min | typ | max | units |
|-----------------------|------------------------|-----|-----|-----|-------|
| weight                |                        |     | 200 |     | g     |
| cooling medium        | aluminum               |     |     |     |       |
| heat radiation medium | aluminum               |     |     |     |       |

## MECHANICAL DRAWING

units: mm  
tolerance:  $\pm 0.3$  mm



## REVISION HISTORY

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| rev. | description          | date       |
|------|----------------------|------------|
| 1.0  | initial release      | 07/09/2008 |
| 1.01 | applied new template | 05/07/2012 |
| 1.02 | updated datasheet    | 09/25/2017 |
| 1.03 | brand update         | 11/05/2019 |

The revision history provided is for informational purposes only and is believed to be accurate.

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# CUI DEVICES

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