

**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<br>voltage <sup>1</sup><br>max<br>[V] | input<br>current<br>max<br>[A] | output<br>Qmax <sup>2</sup><br>T <sub>h</sub> =50°C<br>[W] | output<br>ΔTmax <sup>2</sup><br>T <sub>h</sub> =50°C<br>[°C] |
|--------|---------------------------------------------|--------------------------------|------------------------------------------------------------|--------------------------------------------------------------|
| CPM-2F | 12                                          | 6                              | 48                                                         | 73                                                           |

Notes:

1. at inverse voltage, "cold side plate" becomes hot side plate
2. maximum cooling capacity at  $I_{max}$ ,  $V_{max}$ , and  $\Delta T=0^{\circ}\text{C}$
3. maximum temperature difference at  $I_{max}$ ,  $V_{max}$ , and  $Q=0\text{W}$  (maximum parameters are measured in a vacuum)

**SPECIFICATIONS**

| parameter                        | conditions/description | min  | typ | max  | units              |
|----------------------------------|------------------------|------|-----|------|--------------------|
| internal resistance <sup>4</sup> |                        | 1.85 |     | 2.35 | $\Omega$           |
| cold side plate                  |                        | -20  |     | 60   | $^{\circ}\text{C}$ |

Notes:

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

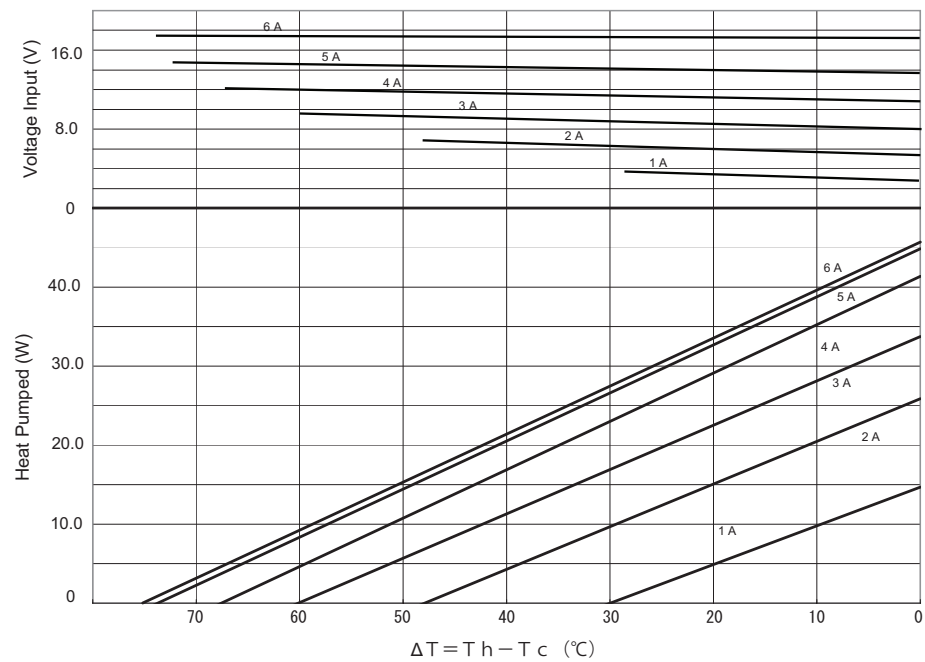
**SAFETY & COMPLIANCE**

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

**ENVIRONMENTAL**

| parameter             | conditions/description | min | typ | max | units              |
|-----------------------|------------------------|-----|-----|-----|--------------------|
| operating temperature |                        | 0   |     | 35  | $^{\circ}\text{C}$ |
| storage temperature   |                        | -20 |     | 70  | $^{\circ}\text{C}$ |
| operating humidity    |                        | 30  |     | 85  | %                  |
| storage humidity      |                        | 10  |     | 90  | %                  |

CPM-2F PERFORMANCE (Th=50°C)

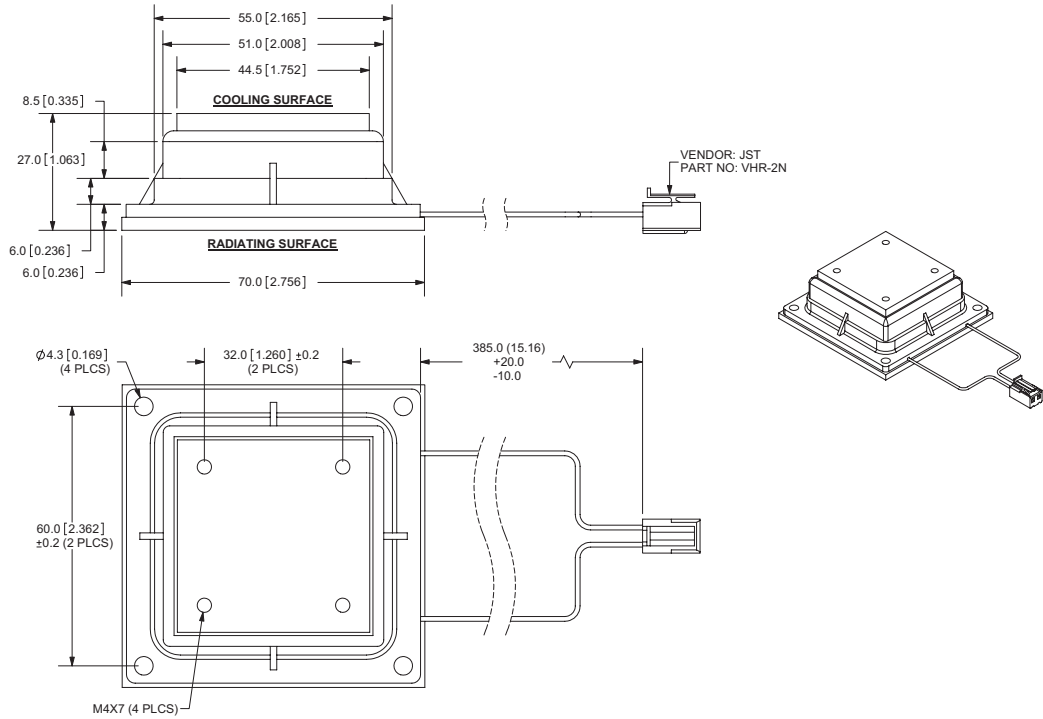


MECHANICAL

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

MECHANICAL DRAWING

units: mm  
tolerance: ±0.3 mm



REVISION HISTORY

| 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 |
| 1.04 | logo, datasheet style update      | 08/05/2022 |
| 1.05 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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