

**SERIES:** AF500 | **DESCRIPTION:** THERMAL PAD**FEATURES**

- 3.0 W/m\*K thermal conductivity
- naturally tacky
- silicone free
- electrical isolation
- sizes to match Same Sky peltier footprints

**SPECIFICATIONS**

| parameter                    | test method/conditions/description | min | typ              | max | units                 |
|------------------------------|------------------------------------|-----|------------------|-----|-----------------------|
| material                     | non-silicone elastomer             |     |                  |     |                       |
| color                        | white                              |     |                  |     |                       |
| thickness                    | ASTM D374                          |     | 0.5              |     | mm                    |
| specific gravity             | ASTM D792                          |     | 2.9              |     | g/cc                  |
| hardness                     | ASTM D2240                         | 65  |                  | 90  | shore 00              |
| tensile strength             | ASTM D412                          |     | 30               |     | psi                   |
| operating temperature        |                                    | -40 |                  | 130 | °C                    |
| dielectric breakdown voltage | ASTM D149                          | 200 |                  |     | Vac/mil               |
| dielectric constant [1 MHz]  | ASTM D150                          |     | 8.0              |     |                       |
| volume resistivity           | ASTM D257                          |     | 10 <sup>13</sup> |     | Ω*cm                  |
| thermal conductivity         | ASTM D5470                         |     | 3.0              |     | W/m*K                 |
| thermal resistance           | 1 mm, 40 psi; ASTM D5470           |     | 0.6              |     | °C*in <sup>2</sup> /W |
| compression ratio            | 1 mm, 40 psi                       |     | 35               |     | %                     |
| flammability rating          | UL94V-0                            |     |                  |     |                       |
| RoHS                         | yes                                |     |                  |     |                       |

**PART NUMBER KEY****AF500 - XXXX 05**

Base Number

Footprint Size (mm):

|                 |                 |
|-----------------|-----------------|
| 10x10 = 1010    | 15x15 = 1515    |
| 15x30 = 1530    | 20x20 = 2020    |
| 20x40 = 2040    | 26.25x50 = 2650 |
| 30x12 = 3012    | 30x30 = 3030    |
| 31.25x30 = 3130 | 40x40 = 4040    |
| 41.25x45 = 4145 | 50x50 = 5050    |
| 70x70 = 7070    |                 |

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 11/15/2018 |
| 1.01 | brand update                      | 03/23/2020 |
| 1.02 | modified material                 | 04/09/2021 |
| 1.03 | logo, datasheet style update      | 08/05/2022 |
| 1.04 | 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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