CUI Devices is now Same Sky! Learn More

same sky

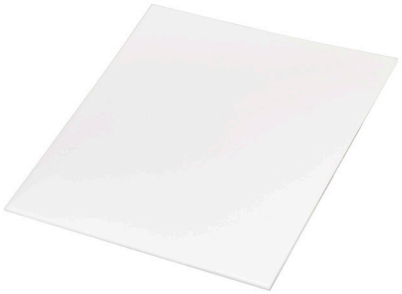
Additional Resources: Product Page



# 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



RoHS

## 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 | | $10^{13}$ | | Ω*cm |
| thermal conductivity | ASTM D5470 | | 3.0 | | W/m*K |
| thermal resistance | 1 mm, 40 psi; ASTM D5470 | | 0.6 | | °C*in²/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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