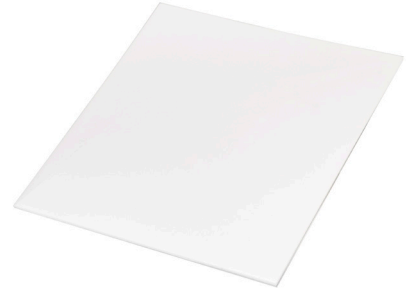




SERIES: AF100 | DESCRIPTION: THERMAL PAD

FEATURES

- 1.0 W/m*K thermal conductivity
- naturally tacky
- silicone free
- electrical isolation
- sizes to match CUI Devices 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 | | 2.1 | | g/cc |
| hardness | ASTM D2240 | 60 | | 90 | shore 00 |
| tensile strength | ASTM D412 | | 30 | | psi |
| operating temperature | | -40 | | 120 | °C |
| dielectric breakdown voltage | ASTM D149 | 200 | | | Vac/mil |
| dielectric constant [1 MHz] | ASTM D150 | | 4.0 | | |
| volume resistivity | ASTM D257 | | 3×10^{13} | | $\Omega \cdot \text{cm}$ |
| thermal conductivity | ASTM D5470 | | 1.0 | | W/m*K |
| thermal resistance | 1 mm, 40 psi; ASTM D5470 | | 1.1 | | °C*in ² /W |
| compression ratio | 1 mm, 40 psi | | 30 | | % |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

PART NUMBER KEY

AF100 - 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 | 11/02/2018 |
| 1.01 | brand update | 03/23/2020 |
| 1.02 | modified material | 04/06/2021 |
| 1.03 | logo, datasheet style update | 08/05/2022 |

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



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

CUI Devices reserves the right to make changes to the product at any time without notice. Information provided by CUI Devices is believed to be accurate and reliable. However, no responsibility is assumed by CUI Devices for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI Devices products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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