



Features:

- Lower density
- High breakdown voltage
- Good heat spreader
- High volume resistivity
- Good EMC
- Ideal for direct metalisation
- Good thermal cycling stability

Applications:

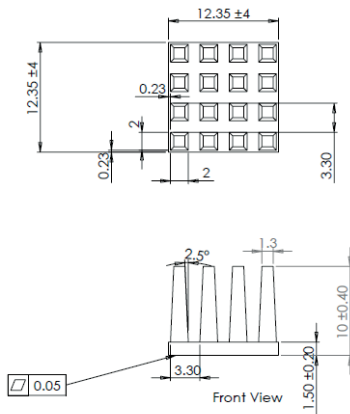
- Metal heat sink replacement, LED, Chipset cooling, power modules, IC cooling

| Property | | Units | Value |
|------------|------------------------------------|------------------------------|--------------------------------|
| Physical | Material | N/A | Al ₂ O ₃ |
| | Density | g/cm ³ | 3.66 |
| | Water absorption | % | 0.002 |
| | Acid resistance | mg/cm ³ | ≤ 0.2 |
| | Alkali resistance | mg/cm ³ | ≤ 0.2 |
| Mechanical | Mohs hardness | HV | 9 |
| | Bend Strength | MPa | ≥610 |
| | Compression Intensity | MPa | ≥620 |
| Thermal | Max. working temperature | °C | 1400 |
| | CTE, thermal expansion coefficient | (1x10 ⁻⁶) mm/ °C | 7.8 - 8.3 |
| | Thermal Conductivity | W/m K | 25 |

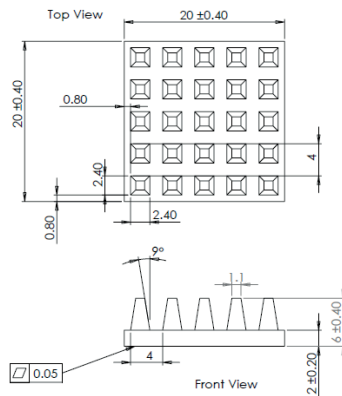
| Part Number | Description Size | R _{th} (°C/W) at 100 lfm | R _{th} (°C/W) at 400 lfm | Dwg |
|-------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----|
| SF-CHS-121210P #2522601 | 12x12x10mm pin fin spreader | 37.8 | 18.5 | A |
| SF-CHS-202006P #2522602 | 20x20x6mm pin fin heat spreader | 40.0 | 23.7 | B |
| SF-CHS303006P #2522604 | 30x30x6mm pin fin heat spreader | 26.7 | 15.7 | C |
| SF-CHS-323206P #2522605 | 32x32x6mm pin fin heat spreader | 22.4 | 13.2 | D |
| SF-CHS-434306P #2522606 | 43x43x6mm pin fin heat spreader | 12.2 | 7.5 | E |
| SF-CHS-606015P #2522607 | 60x60x15mm pin fin heat spreader | 5.2 | 2.4 | F |

Drawing layouts:

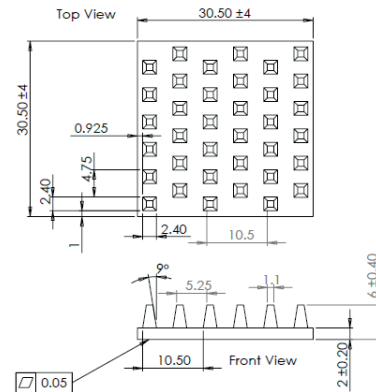
Drawing A: 12x12x10mm



Drawing B: 20x20x6mm

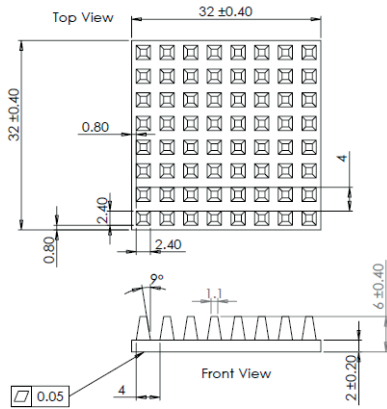


Drawing C: 30x30x6mm

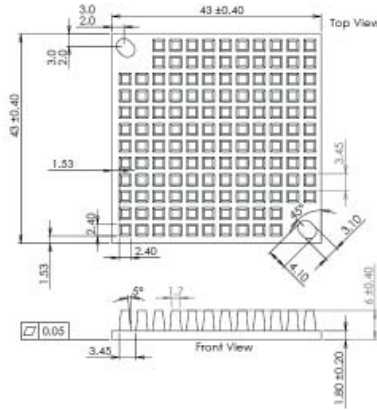


Drawing layouts:

Drawing D: 32x32x6mm



Drawing E: 43x43x6mm



Drawing F: 60x60x15mm

