



**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

Part Number	Stock Code	Size - Circular Pin Fin Spreader	R <sub>th</sub> (°C/W) at 100 lfm	R <sub>th</sub> (°C/W) at 400 lfm	Dwg
SF-CHS-131306-PC	2522614	13x13x6mm	58.9	33.4	A
SF-CHS-151506-PC	2522615	15x15x6mm	52.5	29.5	B
SF-CHS-171706-PC	2522617	17x17x6mm	43.3	23.2	C
SF-CHS-191906-PC	2522618	19x19x6mm	38.7	20.3	D
SF-CHS-212110-PC	2522619	21x21x10mm	21.3	9.8	E
SF-CHS-232310-PC	2522620	23x23x10mm	24.0	12.7	F
SF-CHS-272710-PC	2522621	27x27x10mm	15.6	7.2	G
SF-CHS-313110-PC	2522622	31x31x10mm	14.6	7.2	H
SF-CHS-353510-PC	2522623	35x35x10mm	15.4	7.7	I
SF-CHS-424212-PC	2522624	42x42x12mm	9.4	5.1	J
SF-CHS-454512-PC	2522625	45x45x12mm	9.9	5.3	K
SF-CHS-505012-PC	2522626	50x50x12mm	7.2	3.7	L
SF-CHS-606015-PC	2522627	60x60x15mm	4.7	2.6	M

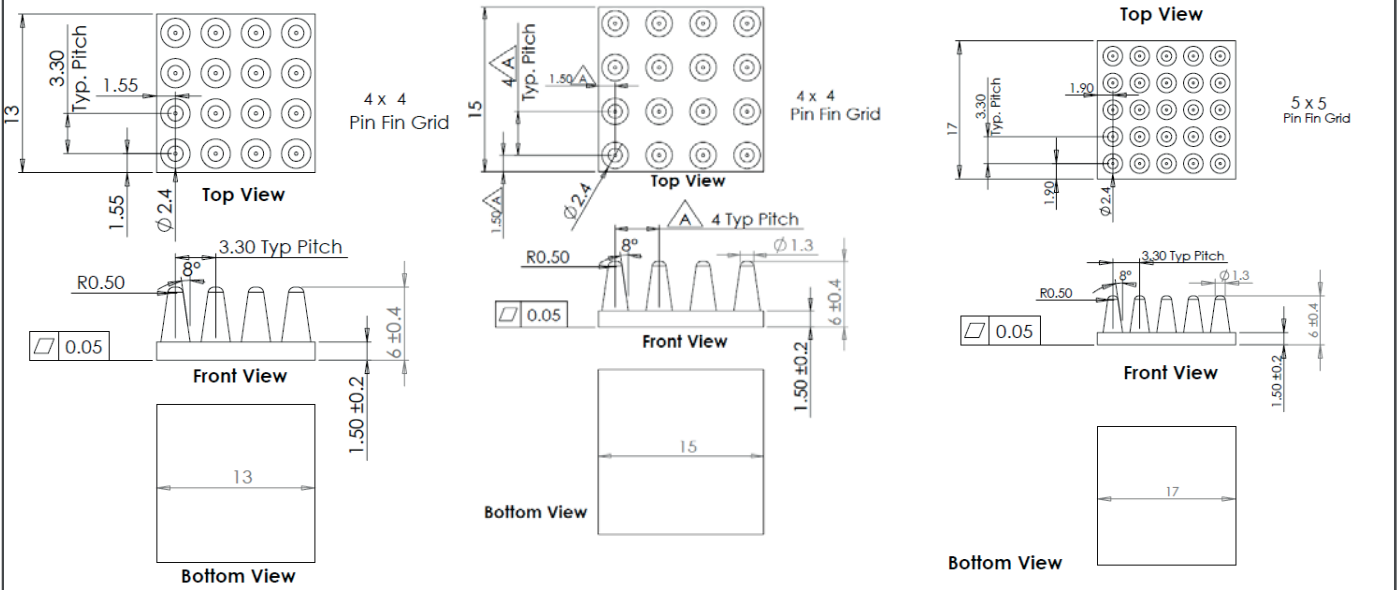
Property		Units	Value
Physical	Material	N/A	Al <sub>2</sub> O <sub>3</sub>
	Density	g/cm <sup>3</sup>	3.66
	Water absorption	%	0.002
	Acid resistance	mg/cm <sup>3</sup>	≤ 0.2
	Alkali resistance	mg/cm <sup>3</sup>	≤ 0.2
Mechanical	Mohs hardness	HV	9
	Bend Strength	MPa	≥ 610
	Compression Intensity	MPa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

**Drawing layouts:**

Drawing A: 13x13x6mm

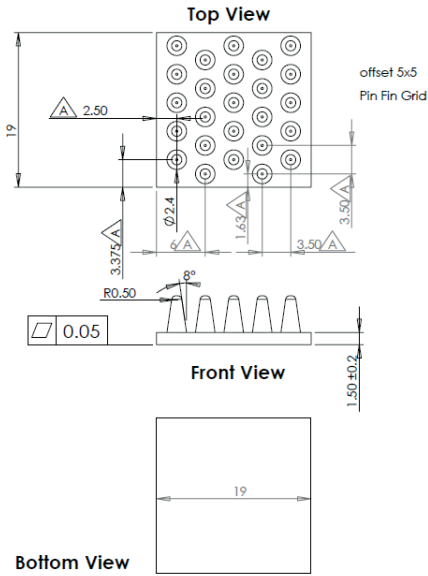
Drawing B: 15x15x6mm

Drawing C: 17x17x6mm

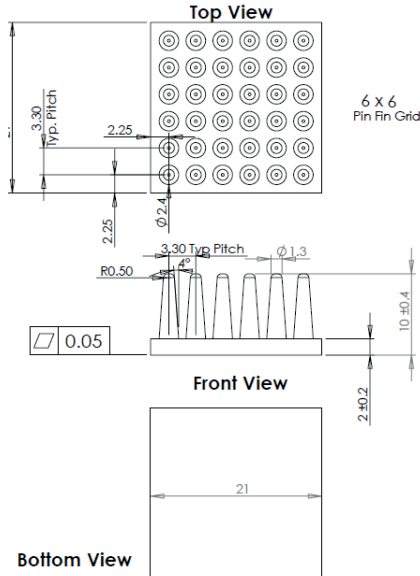


Drawing layouts:

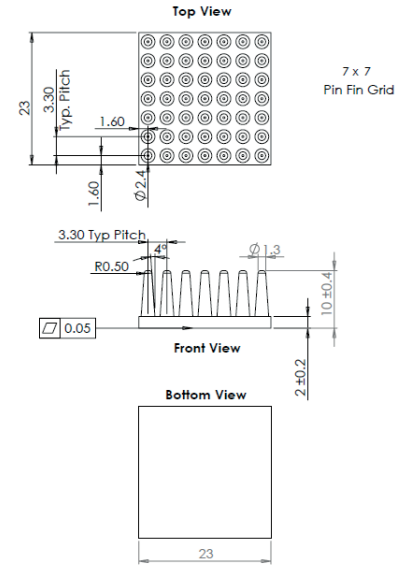
Drawing D: 19x19x6mm



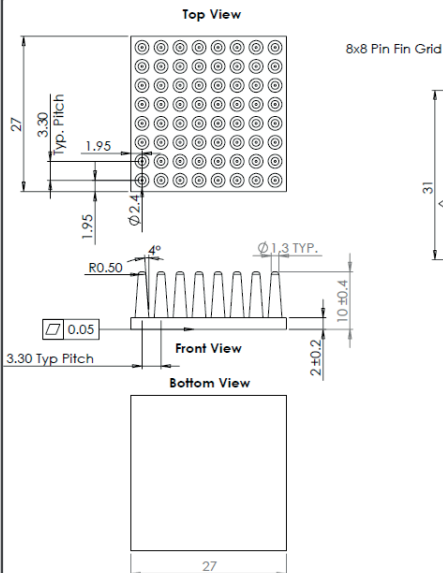
Drawing E: 21x21x10mm



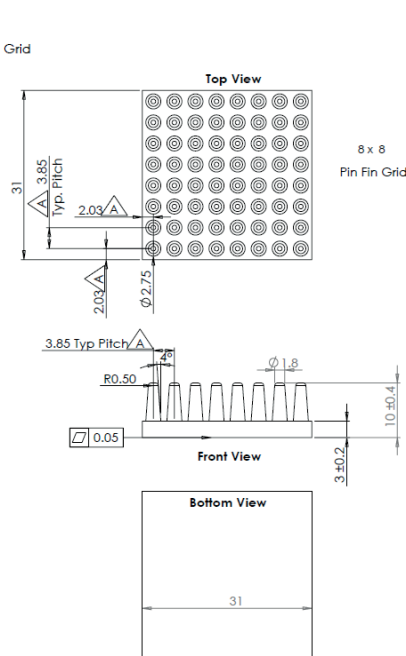
Drawing F: 23x23x10mm



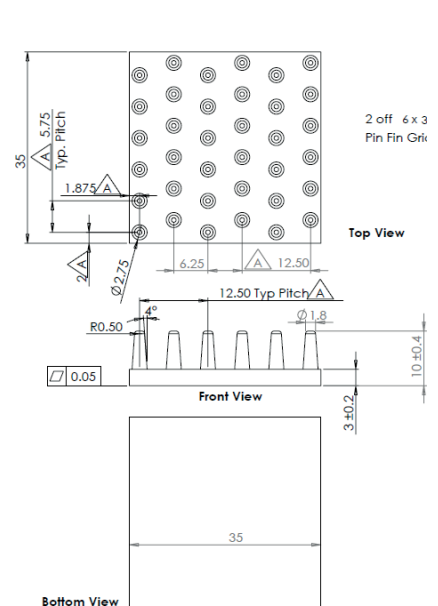
Drawing G: 27x27x10mm



Drawing H: 31x31x10mm

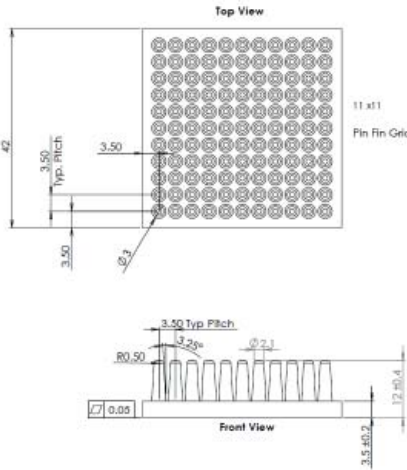


Drawing I: 35x35x10mm

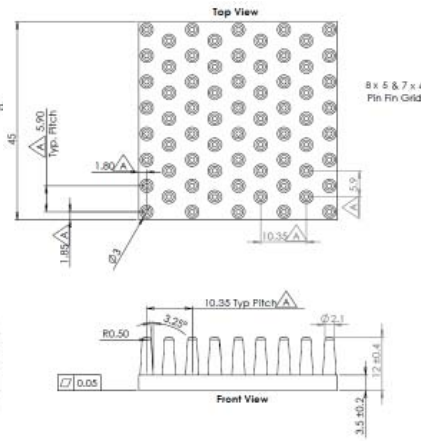


Drawing layouts:

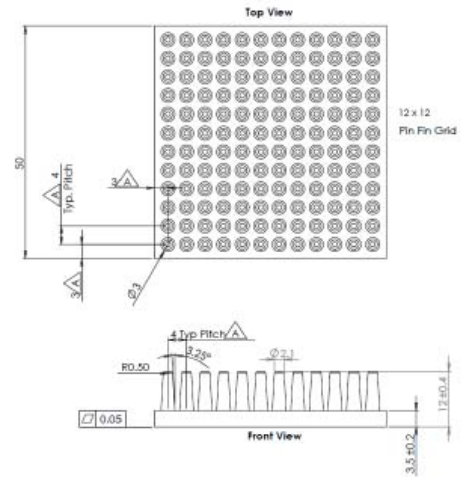
Drawing J: 42x42x12mm



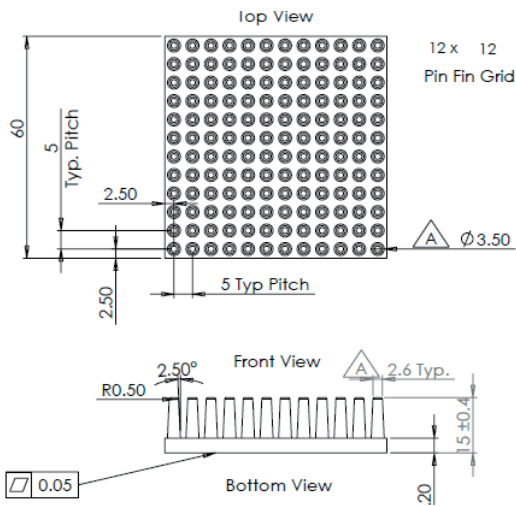
Drawing K: 45x45x12mm



Drawing L: 50x50x12mm



Drawing M: 60x60x15mm



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