Ceramic Heat Spreader Finned Series

SPREADFAST™
CERAMIC HEAT SPREADERS
www.heatspreaders.com

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

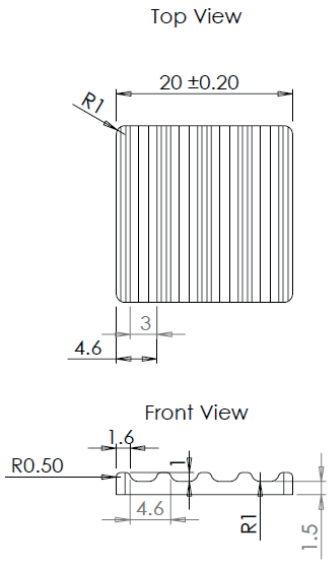
Applications:
Metal heat sink replacement, LED, Chipset cooling, power modules, IC cooling

Property		Units	Value
Physical	Material	N/A	Al_2O_3
	Density	g/cm³	3.66
	Water absorption	%	0.002
	Acid resistance	mg/cm³	≤ 0.2
	Alkali resistance	mg/cm³	≤ 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

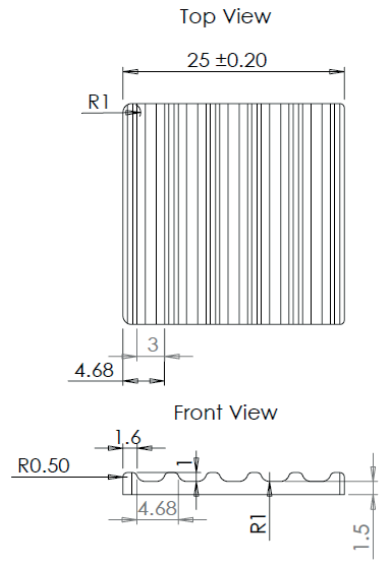
Part Number	Description Size	R_{th}(°C/W) at 100 lfm	R_{th}(°C/W) at 400 lfm	Dwg
SF-CHS-202003F #2522608	20x20x2.5mm finned spreader	58.2	43.0	A
SF-CHS-252503F #2522609	25x25x2.5mm finned spreader	45.4	31.5	B
SF-CHS-555506F #2522610	55x55x6mm finned spreader	10.4	6.2	C
SF-CHS-707012F #2522611	70x70x12mm finned spreader	4.3	2.4	D
SF-CHS-757506F #2522612	75x75x6mm finned spreader	7.2	4.0	E
SF-CHS-858506F #2522613	85x85x6mm finned spreader	5.8	3.1	F

Drawing layouts:

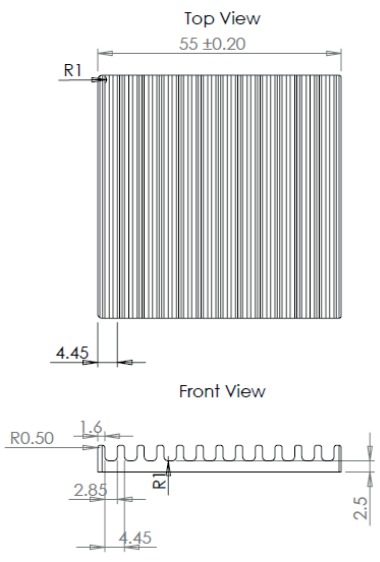
Drawing A: 20x20x2.5mm



Drawing B: 25x25x2.5mm



Drawing C: 55x55x6mm

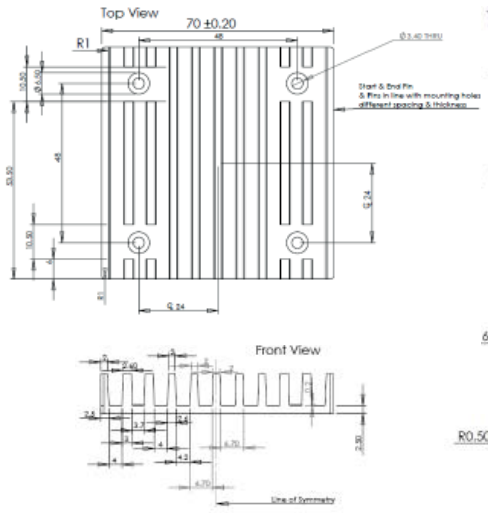


Web: www.etdyn.com Tel: +44(0)116 279 6899 E-mail: info@etdyn.com

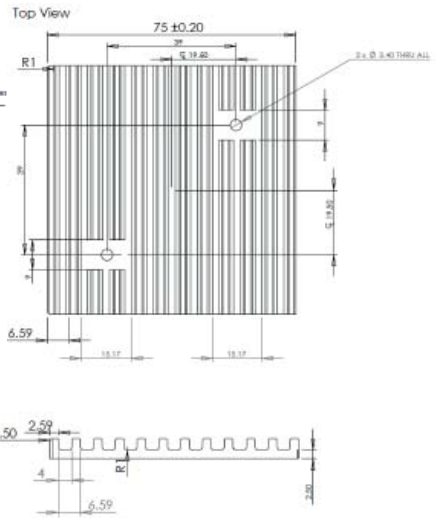
SPREADFAST™
CERAMIC HEAT SPREADERS
www.heatspreaders.com

Drawing layouts:

Drawing D: 70x70x12mm



Drawing E: 75x75x6mm



Drawing F: 85x85x6mm