



APPROVAL SHEET

CPU Coolers

SALES MODEL NO: SP854S3

ENGINEER NO: SC854S3-085-1M3W2



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[Http://www.spirecoolers.com](http://www.spirecoolers.com)

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Approval Sheet Revisement Record

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ENGINEER NO: SC853S0-085-1M3W2

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Version	Revised Chapter	Description	Revised Date	Drafted by	Audited by	ECN No.
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1. Main Components List

Item	Components	Part No.	Quantity	Material
1	Heatsink	01CA854AW1	1	AL+CU
2	AM2 Clip	03CM048	1	Metal
3	Screw	03SW012	4	Metal
4	Fan	SF08025S1M3W2	1	Plastic

2. Multi views and images

2.1 Cooler images



Picture 1 : Full view



Picture 2 : Top view



Picture 3 : Base view



Picture 4 : Right view

2.2 Components images



Picture 1 : Heatsink



Picture 2 : AM2 Clip



Picture 3: Screw



Picture 4: FAN



Picture 5: Fan Label



Picture 6: 3 pin connector



3. Features and Specifications:

Main features:

Supports all new AM2 micro-processors

80x25mm Sleeve bearing fan for silent operation

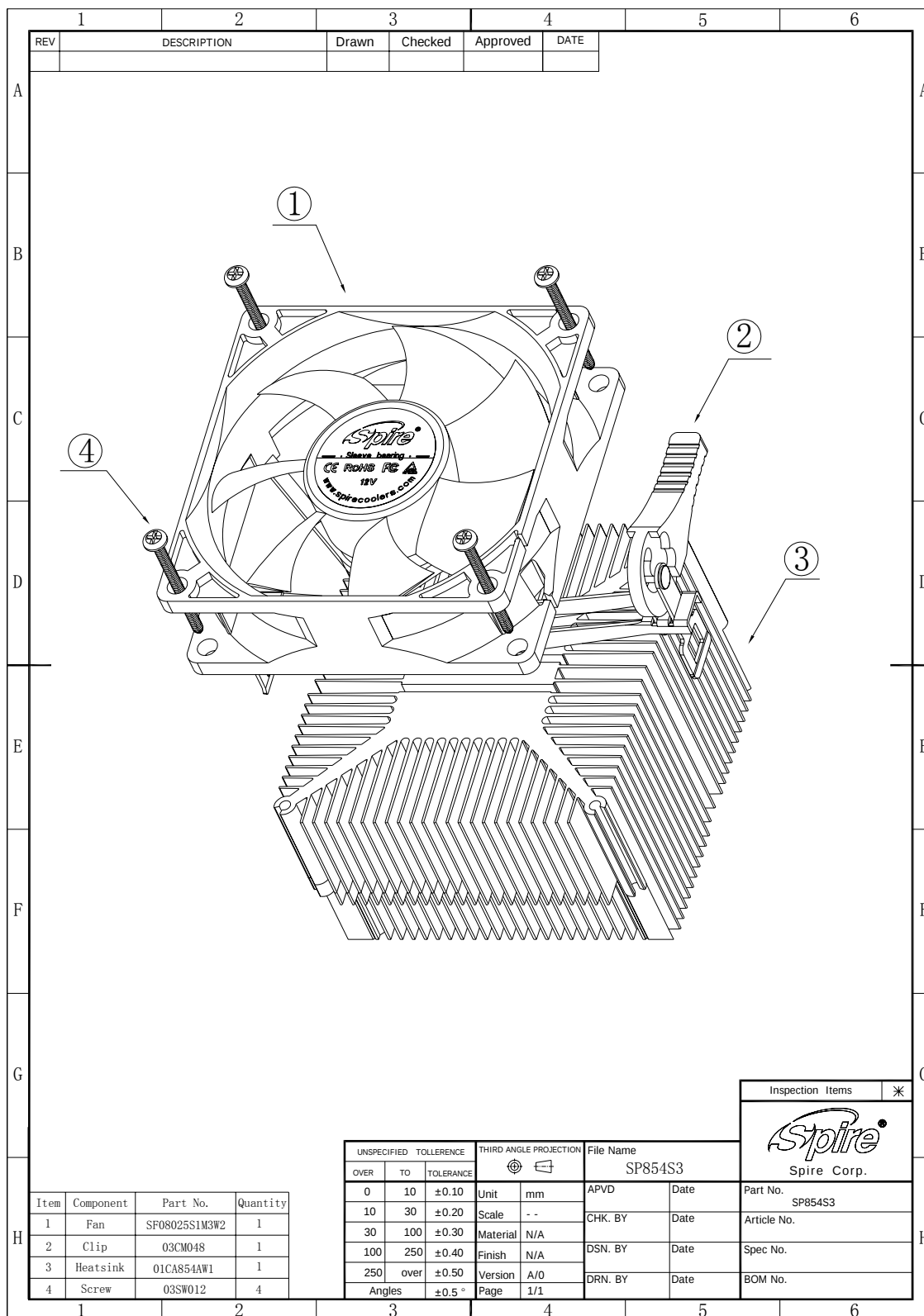
Extruded heat-sink with massive copper-core for optimal heat conductivity

Specifications:

Dimensions	Heat sink : 81*76.8*48mm	
	12VDC Fan : 80X80X25 mm	
Bearing	Sleeve Bearing	
Rated speed	Cooler	2400 rpm
	FAN	2300 rpm
Rated power	2.04 W	
Noise level	26.0dBA	
Air flow	33.21 CFM at 2.400RPM	
Current	0.17 A	
Life hours	Sleeve: 30,000	
Connector	3 pin, main board	
Application(AM2)	Phenom X4 9100e Phenom X3 8250e Athlon 64 X2 5000+ Opteron X2 870 HE Opteron X2 860 HE Phenom X3 8450e Opteron X2 270 HE Athlon 64 X2 5200+ EE Opteron X2 865 HE Opteron X2 260 HE Athlon 64 X2 4800+	
Thermal resistance	0.285°C/W	
TDP(Watt)	130W	
Thermal type	Stars-420 grease	
weight	466g (Cooler only)	

4. Product Drawing

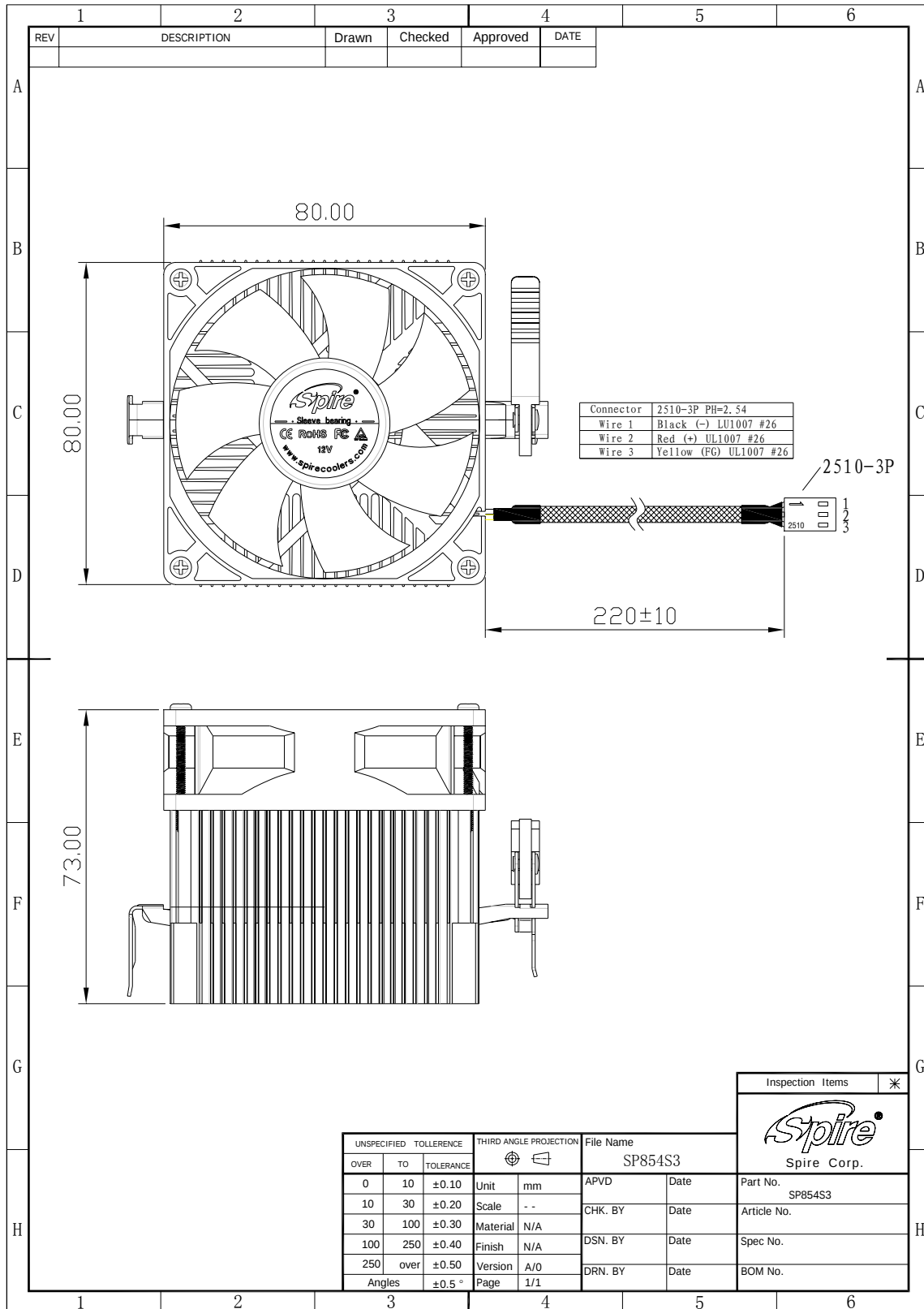
4.1 Assembly Drawing





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4.2 Cooler



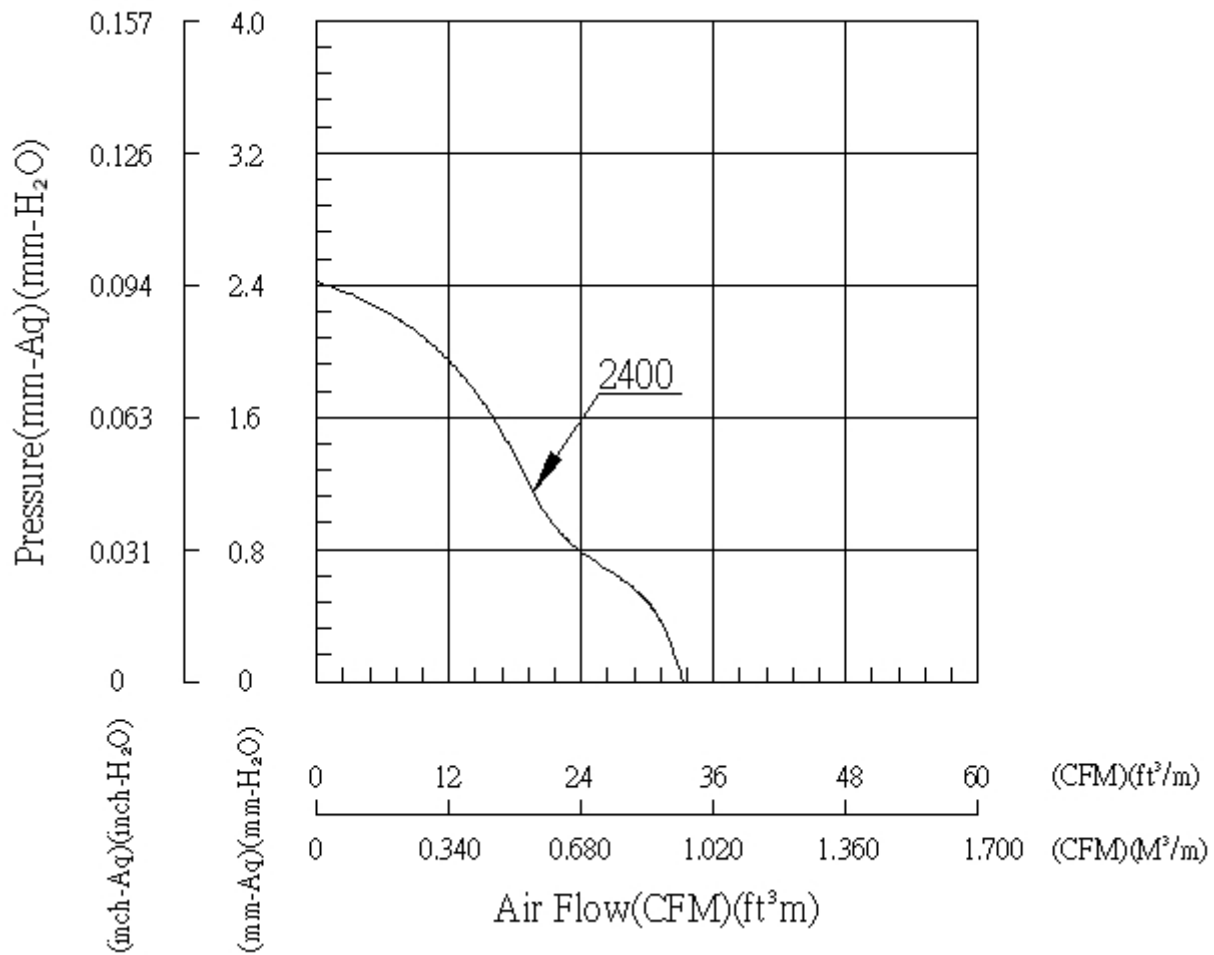


5. Fan Specification:

FAN MODEL: 0208025S1M3W2

1) Rated Voltage	: 12VDC
2) Operating Voltage Range	: 10.2 ~13.8VDC
3) Rated Speed	: 2300RPM ±10%
4) Static Pressure	: 2.42 mm-H ₂ O
5) Air Flow	: 33.21CFM
6) Rated Current	: 0.17 AMP
7) Rated Power	: 2.04 WATTS
8) Noise Level	: 26.0 dB(A)
9) Operating Temperature	: -10 to 70 °C
10) Storage Temperature	: -40 to 70 °C
11) Bearing System	: Sleeve Bearing
12) Connector	: 3 pin
13) Weight	: 70.0 g

6. P&Q Characteristic curves





7. Correlative Certification compliance

Item #	Certification type	Certification Number	Certification listing	Remark
1	EMC	BCT07LC-807E	www.bontek.com.cn	
2	LVD	BCT07LC-807S	www.bontek.com.cn	
3	FCC	ASZ08041007FK	www.aovt.com	
4	ROHS	GZ0803038947A/ CHEM	www.rohs.cn.com	
5	TUV	R50131773	www.sz.chn.tuv.com	



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RoHS Declaration of Conformity

Spire hereby declares under our sole responsibility that the product:



Part number: **SP854S3**

Codename:

Description: Extruded heat-sink with massive copper-core for optimal heat

conductivity; Sleeve bearing fan for silent operation ;

2400rpm 3pin, Mainboard ; AM2 CPU Cooler .

Is tested and approved in compliance with the EUROPEAN COUNCIL ROHS DERECTIVE.

(Restriction of Hazardous Substances) which will restrict the use of certain substances in electrical and electronic products: including lead (Pb), mercury, cadmium, hexavalent chromium, and certain halide-containing flame retardants. The directive applies to all electrical and electronic products, their component parts that are placed on the market after July 1, 2006.

Spire Coolers Corp.

PM Engineering Dept.

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