

Product Data Sheets

Customer : _____

Part No. : _____

CoolerMaster Model No. : ECC-00586-01-GP

Edition: A1

Issued Date: 2008.06.09

Revision History :			
Date of Release	Revision No.	Description	
Customer		Cooler Master	
Approved by	DCC	Checked by	Drafted by
	陳如玉	徐宗瑞	徐惠玲
Date:	Date:2008.06.09	Date:2008.06.09	Date:2008.06.09



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www.coolermaster.com



1. Whole Set Photo

2. Specification & Dimension & SGS

Heat Sink
Screw
Spring
Washer
Back Plate
Insulator
Interface
Sponge
Fan

3. Package



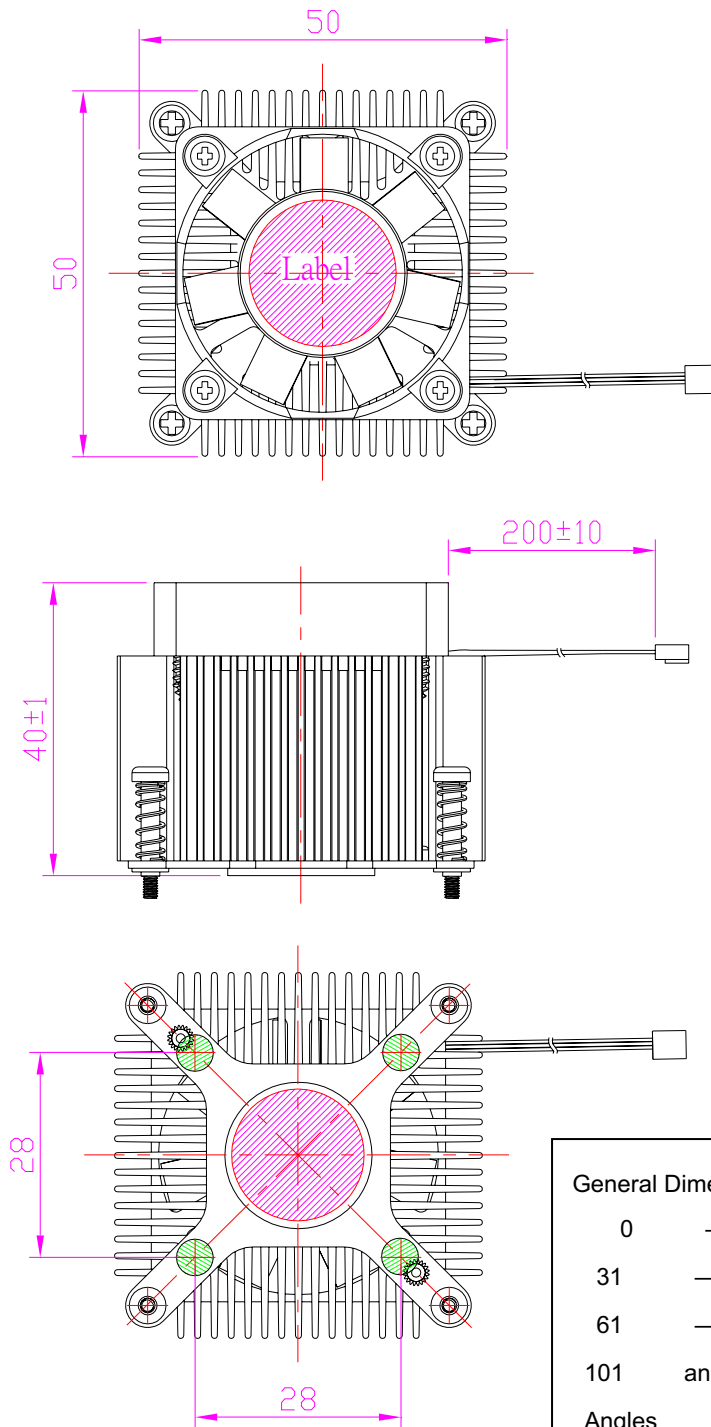
Whole Set Photo





Specification & Dimension

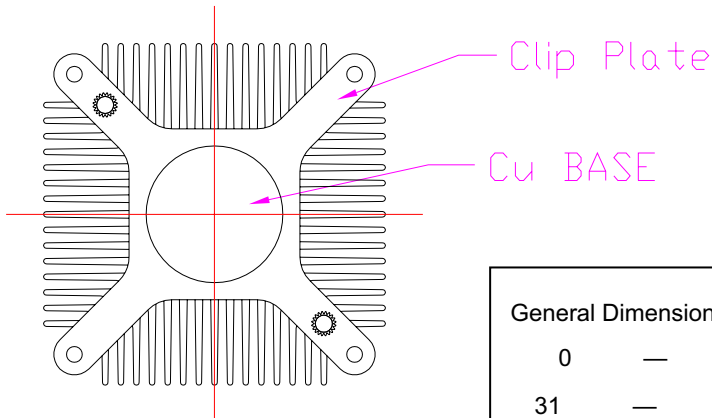
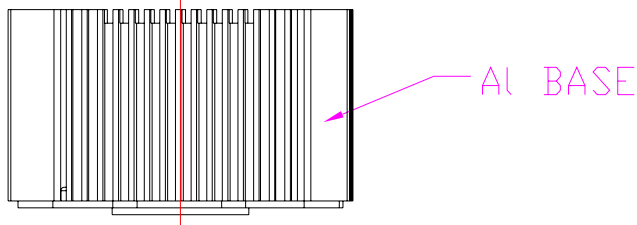
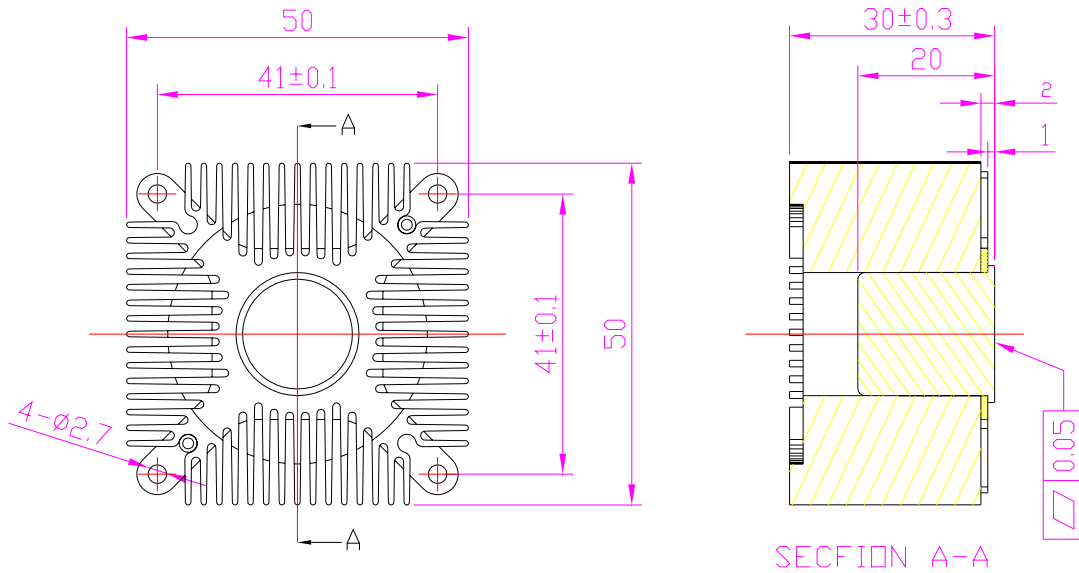
Assembly



General Dimension Tolerances (Unit : mm)			
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			$\pm 2^\circ$



Heat Sink



General Dimension Tolerances (Unit : mm)			
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			± 2°



Al Heat Sink

Material : Aluminum Alloy 6063 T5

Finished: Original Anodize

Mechanical Characteristics :

Alloy No.	Designation	Cutting Area Surface	Extension Rate
6063	T5	Over 15 kgf/mm ²	7 %

Chemistry Ingredient & Temper Designation :

Value	Si	Fe	Cu	Mn	Cr	Mg	Zn	Ti	Flatness
SPECIFIED VALUES	0.4258	0.2037	0.0032	0.0059	0.0028	0.5147	0.0000	0.00263	0.1mm ↓

Cu Base

Material : Copper Alloy C1100

Finish : Anti-Oxidation

Mechanical Characteristics :

Alloy No.	Tensile strength (26~32kgf/mm ²)	Hardness Test (80~100HV)	Elongation (%)
C1100	26329	88	98

Chemistry Ingredient & Temper Designation :

Value	Cu	Pd	Fe	Sn	Zn	P
SPECIFIED VALUES	99.95Max	0	0	0	REN	0

Clip Plate

Material : S50C Heat Treatment

Finish : Nickel Plating

Thickness : 1.0mm



Screw

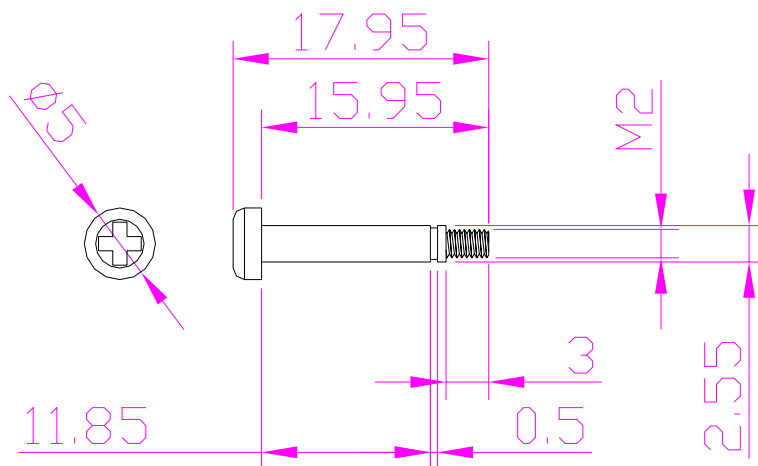
Material : AISI 1018

Finished: Nickel Plating

Product : ROD CARBON STEEL

Chemistry Ingredient Characteristics : (%)

Value	C	KN	P	S	SI	Mg
SPECIFIED VALUES	0.16	0.78	0.24	0.8	0.2	0.5147



General Dimension Tolerances (Unit : mm)			
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			± 2°



Spring

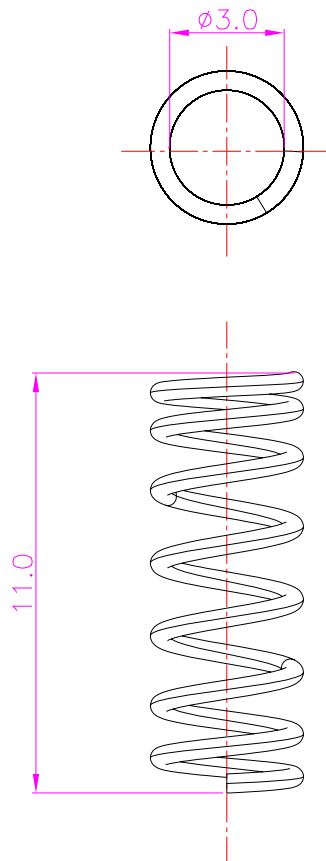
Mechanical Characteristics :

Commodity	Size	Compress
SWP-B	0.5 mm	5 mm

Finished: Nickel Plating

Chemistry Ingredient Characteristics : (%)

Value	C	Si	Mn	P	S	Cu
SPECIFIED VALUES	0.81	0.18	0.50	0.011	0.004	0.01



General Dimension Tolerances (Unit : mm)

0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			± 2°

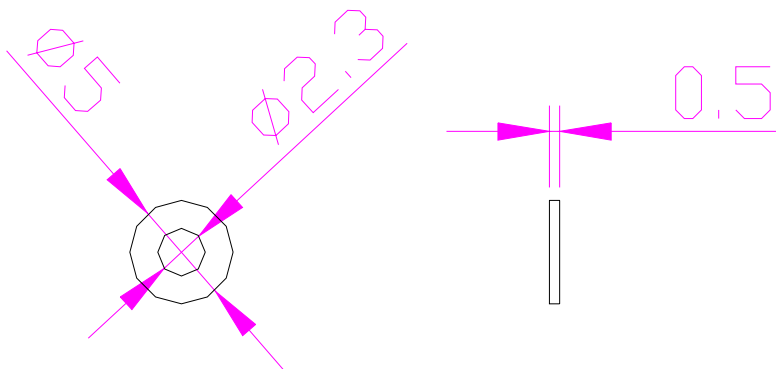


Washer

Material : Nylon+MOS2

Thickness : 0.5mm

Color : Black



General Dimension Tolerances (Unit : mm)			
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			$\pm 2^\circ$



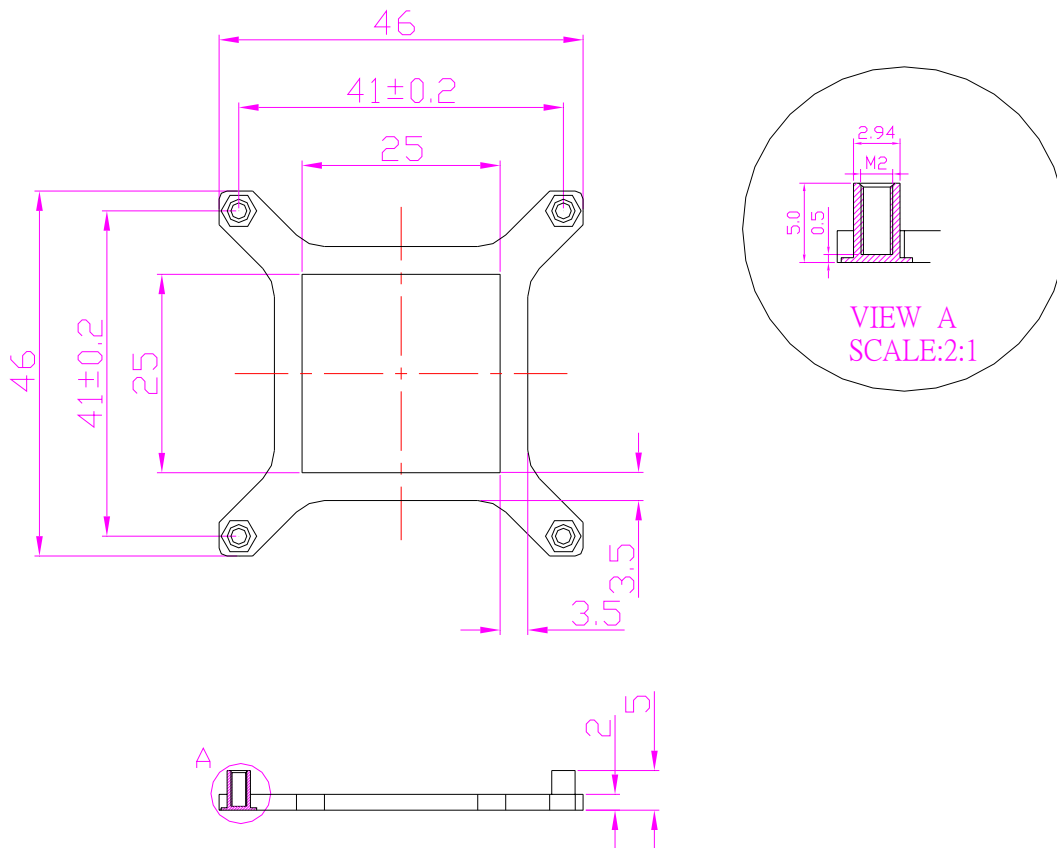
Back Plate

Material : SPCC

Boss Material: Free Cutting Steel

Finished: Nickel-Plating

Thickness : 2mm



General Dimension Tolerances (Unit : mm)			
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			$\pm 2^\circ$



Insulator

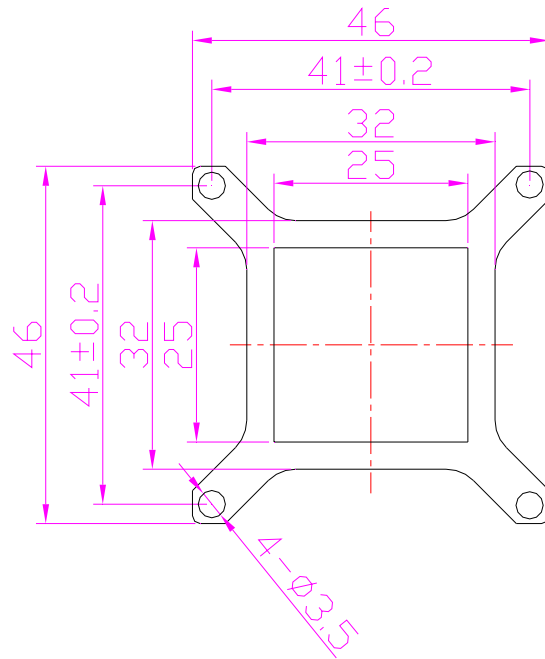
Model No. : D272

Color : Green

Adhesive : Double Sides 3M Adhesive Tape

Material Characteristics :

Thickness (mm)	Tensile Strength (N/10mm)	Dielectric Strength (KV/mm)
0.2	Cross Section : 100 Axial Section : 120	9.0



General Dimension Tolerances (Unit : mm)			
0	—	30	± 0.2
31	—	60	± 0.3
61	—	100	± 0.4
101	and	Over	± 0.5
Angles			± 2°

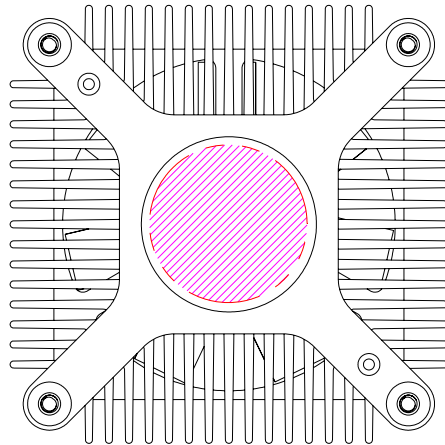


Interface

SIZE mm: ϕ 18mm

Thickness : 0.1~0.2mm

Specification	Brand
7762	ShinEtsu





Interface

Shin-Etsu

X-23-7762
Thermal Interface Material

Description of Use

Thermal grease (X-23-7762) is a thermal interface material developed by Shin-Etsu Chemical Co., Ltd. to meet the current and future thermal management requirements of high performance microprocessors. It is used to increase heat sink effectiveness by closing the air gap existing between the top of the processor and the fan heat sink. Air is a thermal insulator with a thermal conductivity of 0.027W/mK. The grease is applied to the raised area on top of the processor after the processor is in the socket. The fan heat sink is centered on the processor top, with the raised areas on the bottom of the heat sink and the processor top aligned. The fan heat sink is firmly pressed to evenly distribute the thermal grease until the metal of the heat sink is felt against the metal of the processor top. The excess grease can be removed by wiping with a soft cloth.

Typical Physical Properties

Appearance	Gray
Viscosity (25C)	1700 Poise
Bulk Thermal Conductivity	More than 4 W/mK (with solvent) More than 6 W/mK (w/o solvent, as X-23-7732)
Volatile Content (150C x 24hrs)	2.5%

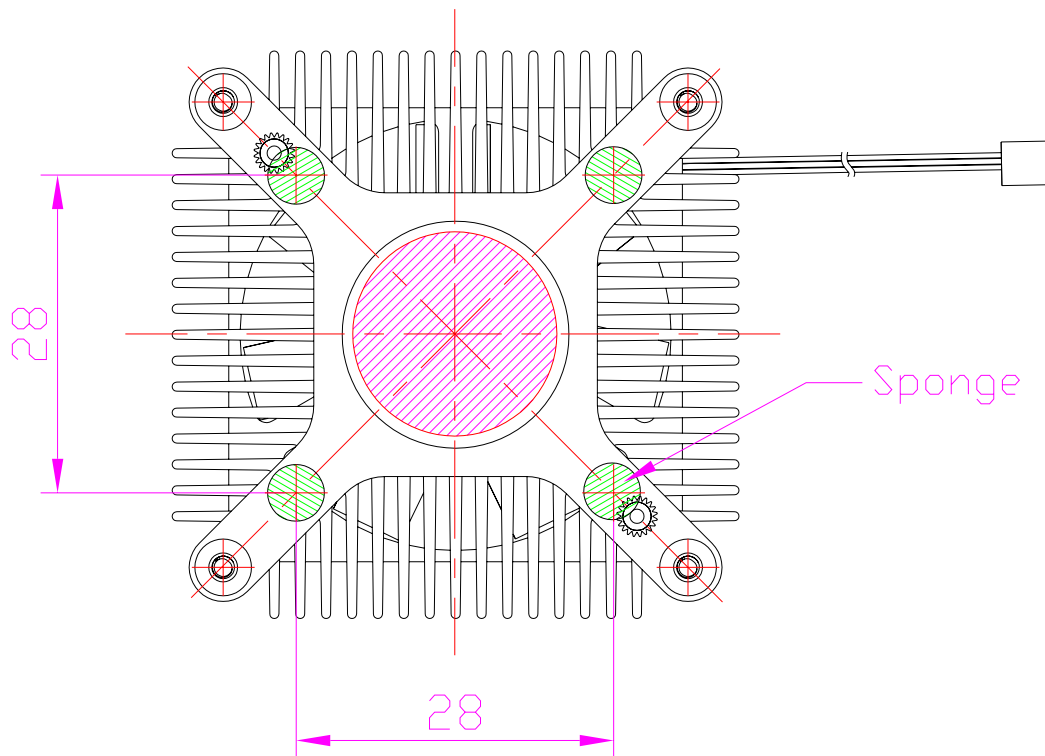
Handling instruction

1. Suggest to store the material under 10 deg C. Once open the lid, please use it up as soon as possible.
2. Require stirring the material up before using.
3. X-23-7762 contains 2wt% of solvent as a diluted component for application of screen-printing. Therefore, require removing solvent after putting 7762 on substrate. Recommendable curing condition: 60 deg C x 30min



Sponge

Material : PORON
Color : Black
SIZE mm : ϕ 5mm
Thickness : 1.5 ± 0.1 mm

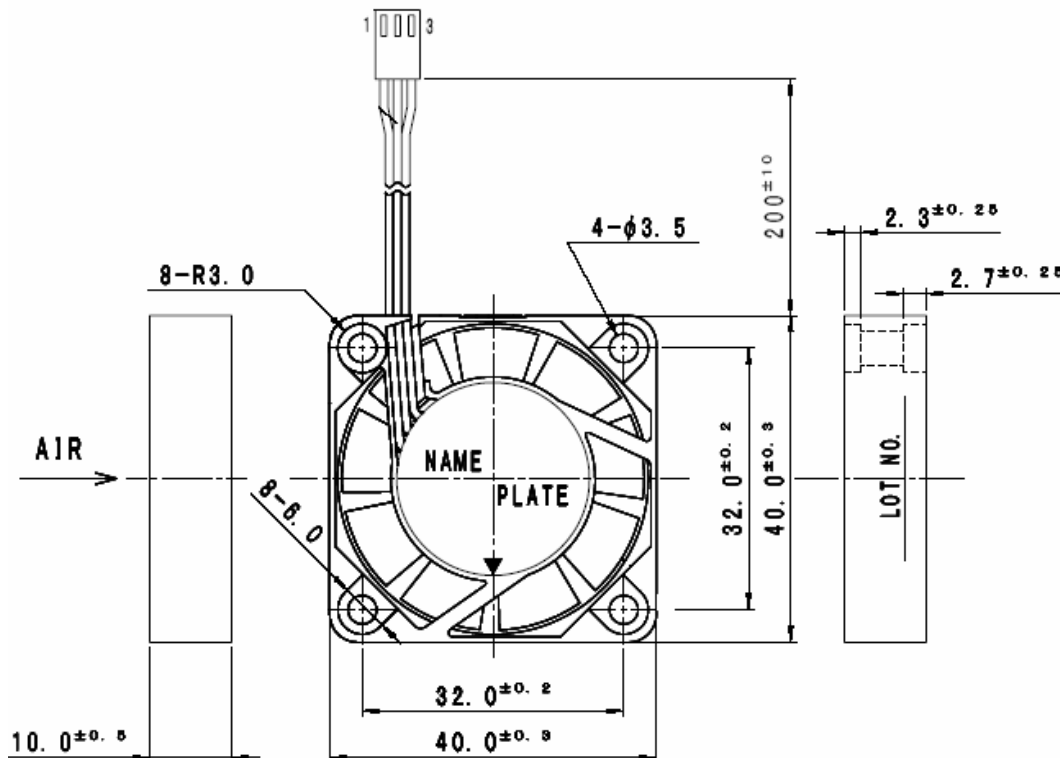




Fan

Physical Characteristics :

Specification	NMB Precise ball bearing system
Dimensions	40 x 40 x 10 mm
Rated Speed	5500 RPM
Rated Voltage	12 VDC
Operating Voltage Range	10.2 – 13.8 VDC
Acoustical Noise	25 dB
Air Flow	0.15 m ³ /min (MAX)
Bearing	Two Ball Bearing





Package

Gift Box Size : 87*87*59 (mm)



Gift Box in carton

15 pcs in one layer.

Total two layers in one carton 30 pcs / ctn.



Carton Size : 461*283*147 (mm)