



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Comair Rotron Specification Sheet

Specification Date: Feb 06, 2012

COMAIR ROTRON PART NUMBER: 19044008A
COMAIR ROTRON MODEL NUMBER: MFSE24Z

A.) MOTOR:

RATED VOLTAGE:	24.0Vdc
OPERATING VOLTAGE RANGE:	16.0Vdc – 28Vdc
LOW-START VOLTAGE:	16.0Vdc
RUNNING CURRENT:	4.5 Amps
RATED POWER:	108 Watts
NOMINAL SPEED:	4600RPM±10% (AtFree Delivery)
START UP TIME:	20 Seconds Maximum
OVER VOLTAGE PROTECTION:	No
MAX.LOCK.ROTOR CURRENT:	8.4 A
MOTOR TYPE:	Brushless DC
MOTOR PROTECTION:	Active Over Current Protection
POLARITY PROTECTION:	Yes
LOCKED ROTORT PROTECTION:	Electronic
AUTOMATIC RESTART CAPABILITY:	Yes
AUTOMATIC RESTART DELAY:	5± 2S
MAX START UP CURRENT:	3.0A

B.) MECHANICAL

DIMENSIONS:	<i>Figure 1</i>
WEIGHT:	1.90 Kg
BEARING TYPE:	Permanently Lubricated Ball Bearings
VENTURI:	Two-Piece, Die Cast Aluminum, Painted Black
PROPELLER:	Plastic PA6.6 (polyamide glass-fiber reinforced ,Black, UL94V-0



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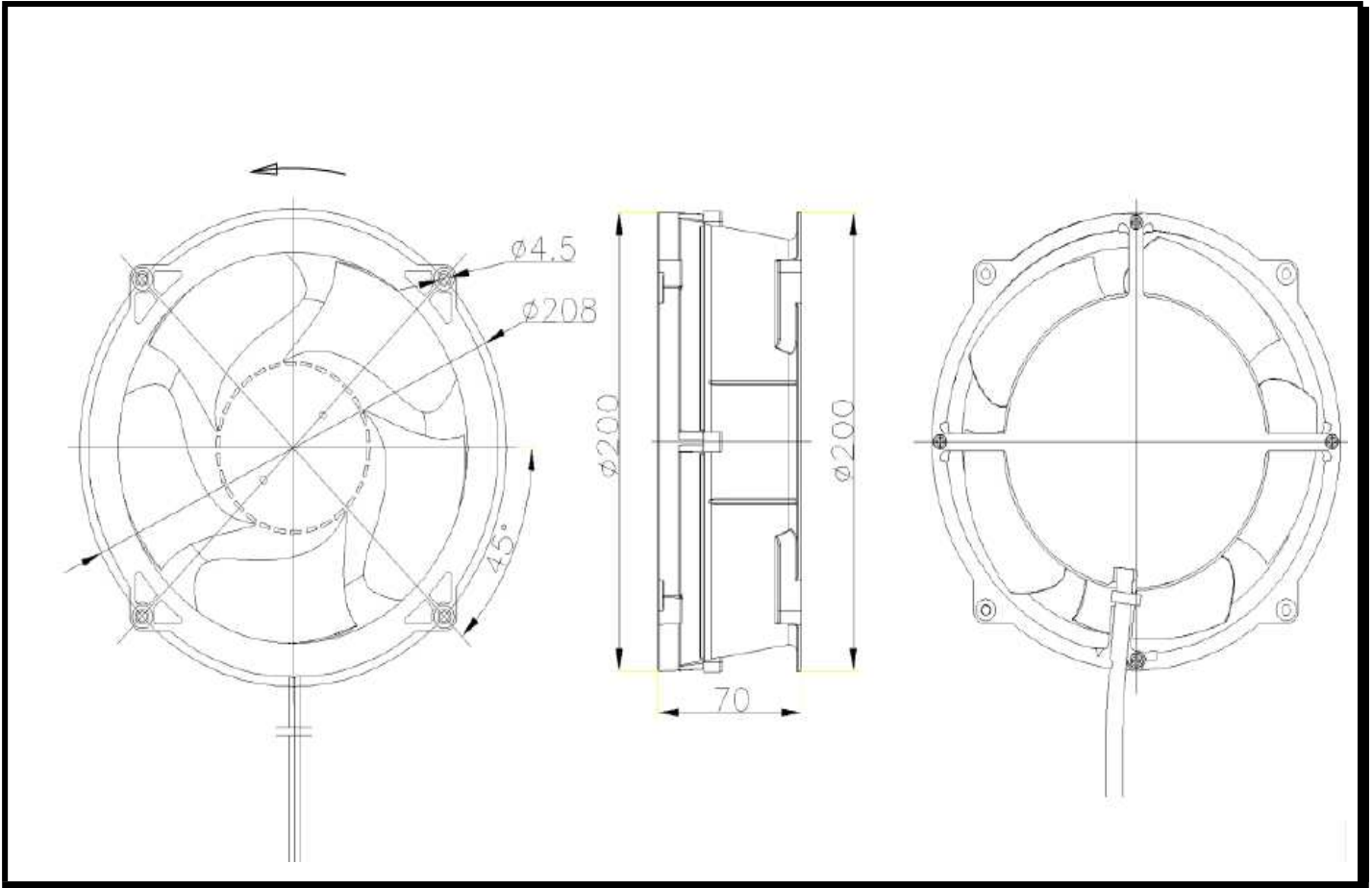


Figure 1

C.) ENVIRONMENTAL

OPERATING TEMPERATURE:	-10°C to 70°C
STORAGE TEMPERATURE:	-40°C to 80°C
HUMIDITY:	0 to 85% RH, non-condensing

D.) PERFORMANCE CHARACTERISTICS

AIR FLOW:	530 CFM \pm 10% (At Free Delivery and 24.0 VDC Nominal)
STATIC PRESSURE:	2.82" Inches of H ₂ O (At Shut-Off and 24.0 VDC Nominal)



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ACOUSTIC LEVEL: 85 dBA

E.) TACHOMETER FEATURES

TACHOMETER OUTPUT: Open Collector Output
Max Pull up Voltage: 28V
Max I_c : 15mA
Nominal Pull up Voltage : 24V
Nominal Pull up Resistor : 2700 OHMS

Specific feature of Tacho output with Nominal Voltage & Resistor:

Output High Level : 23 - 25V
Output Low Level : 0 - 0.5V
Pulses : 3 Per Rev
Output Pulse Duty cycle : 50%±10%

F.) SPEED CONTROL FEATURES

Method: PWM
High Voltage Level : 10VDC±5%
Low Voltage Level : 0- 0.5VDC
Frequency: 1-10KHz
Min Input Impedance: 20 Kohms
Duty: Speed
0-10% 0
10% 20% full speed
20% 35% full speed
30% 50% full speed
40% 60% full speed
50% 65% full speed
60% 75% full speed
70% 85% full speed
80% 90% full speed
90% 95% full speed
95%-100% full speed

G.) TERMINATION

LEADWIRE: 17" Length, UL 1007
WIRE GAUGE: 20AWG
WIRE IDENTIFICATION: Red – Power+
Blue – Return-
White – Tachometer Signal(OC)
Yellow – Speed control(PWM)

H.)SAFETY

UL , CE,CCC



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J) PWM VS P-Q CURVE

