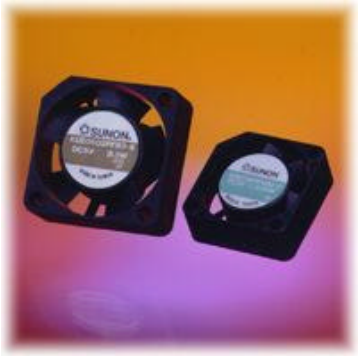
Extra Mini DC Fan



Only Sunon's revolutionary patented motor can make a smaller and thinner motor hub. With its superior patented single-coil 8 pole brushless motor design, Sunon's Extra Mini Fan consumes at least 40% less power and provides 10-50% higher air flow than other fans.

Applications:
Notebook PC, Scanner, Space Limited Product, Electronic Compact Device, Digital Camera, Deck, ...etc.

General Data

Direction of Rotation :	Counter-Clockwise Viewed from Fan Blade
Air Flow Direction :	Label Side
The Best Mounting Direction :	In Any Orientation
Operating Temperature :	-10 to +70 Deg.C
Storage Temperature :	-40 to +70 Deg.C
Bering System :	Precise Ball Bearing System or Lubricated Sintered Sleeve Bearing System
Tolerances :	15% on Rated Power & Current
Insulation Resistance :	More than 500M ohm between internal stator and lead wire(+) measured by DC 500V
Dielectric Strength : *(withstand voltage)*	Applied AC 500V for one minute or AC 600V for two seconds between housing and lead wire(+)
Safety Protection :	Electronic locked rotor protected
Vibration :	Vibration of acceleration 1.5G and frequency 5~50~5Hz is applied in the 3 directions (X, Y, Z) for 30 minutes, each direction at the cycle of 1 minute.

Model Numbering System

KD | 12 | 08 | P | T | S | 1 — Suffix

FAN SERIES
KD: DC MOTOR FAN
GM:GREEN MOTOR FAN

VOLTAGE
05:5VDC
12:12VDC
24:24VDC

FRAME SIZE

12:120mm	**45:45mm**
09:92mm	**04:40mm**
08:80mm	**35:35mm**
06:60mm	**03:30mm**
05:52mm	**02:25mm**
05:50mm	**01:20mm**
55:55mm	**17:17mm**

SPEED
X:SUPER
1:HIGH
2:MIDDLE
3:LOW

BEARING SYSTEM
B:BALL
S:SLEEVE

FRAME THICKNESS

M:38mm	G:12mm
L:32mm	F:10mm
T:25mm	E: 6mm
K:20mm	D: 7~8mm
H:15mm	

FRAME SHAPE
P:PBT Plastic
A: Aluminum

NOMENCLATURE / SUFFIX
Basic Model Number for Brushless DC fan is with four poles motor. Suffixes have the following significance:
-6/-8: Motor with six poles / Motor with eight poles | **A:** Motor protection by IC | **AS:** Motor protection by IC combined with a temperature sensor | **AM:** Motor protection by IC combined with an alarm | **AD:** Motor combination of AS and AM **B:** Motor without automatic restart function | **M:** Motor protection by IC output | **AR:** Motor protection by IC with rotation detects waveform | **AF:** Motor protection by IC with frequency generation waveform | **OC:** Motor with law starting voltage **OCM:** Motor with open collector type and law starting voltage