



# Datasheet

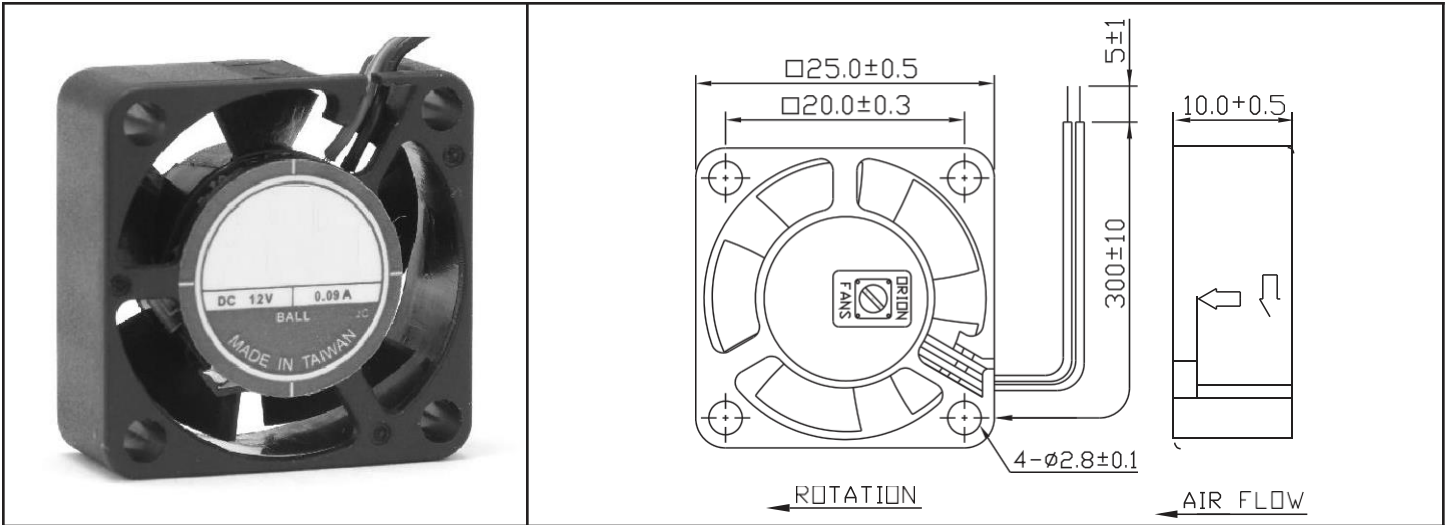
## RS PRO DC Axial Fan, 25x10mm

### OD2510 Series

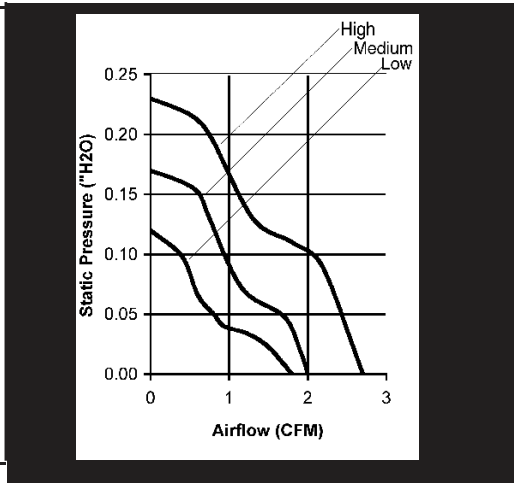
DC Fan - 5V, 12V  
25 x 10mm (1.0 x .39in)



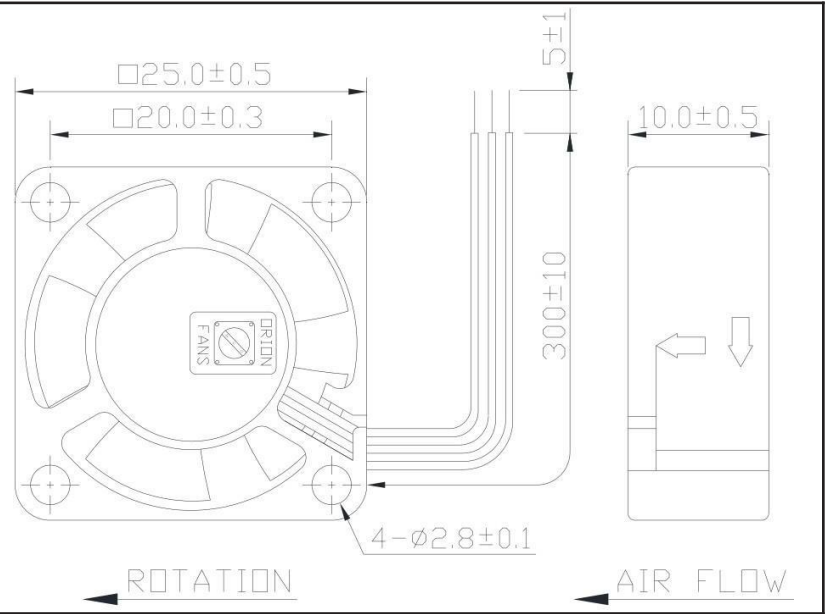
Model #	Pg #	Voltage	RPM	CFM	Noise Level	Max Static Pressure
144-2027	2	5 VDC	8000	18	18 dB	.12 H <sub>2</sub> O
144-2028	2	5 VDC	12000	27	31 dB	.23 H <sub>2</sub> O
144-2029	2	12 VDC	8000	18	16 dB	.12 H <sub>2</sub> O
144-2030	2	12 VDC	7000	145	15 dB	.07 H <sub>2</sub> O
144-2031	3	12 VDC	10000	22	24 dB	.17 H <sub>2</sub> O



Frame & Impeller	PBT, UL94V-0 plastic	<b>Available Options:</b> Tachometer Alarm  <u>Life Expectancy (L10)</u> Ball - 60,000 hrs (45C) Sleeve - 30,000 hrs (45C)  <u>Operating Temperature</u> Ball: -20C ~ +75C Sleeve: -10C ~ 50C  Weight: ~ 0.02 lbs
Connection	2x Lead wires 28AWG	
Motor	Brushless DC, auto restart, impedance and polarity protected	
Bearing System	Ball bearing or Sleeve	
Insulation Resistance	10M ohm between leadwire and frame (500VDC)	
Dielectric Strength	1 minute at 500 VAC, max leakage < 500 MicroAmp	
Storage Temperature	-40C ~ +80C	



Model Number	Speed (RPM)	Airflow (CFM)	Noise (dB)	Nominal Voltage (VDC)	Voltage Range (VDC)	Amps (A)	Max. Static Pressure (H <sub>2</sub> O)
144-2027	8000	1.8	18	5	4.0 ~ 5.5	0.10	0.12
144-2028	12000	2.7	31	5	4.0 ~ 5.5	0.14	0.23
144-2029	8000	1.8	16	12	6.0 ~ 16	0.04	0.12
144-2030	7000	1.45	15	12	9.0 ~ 13.2	0.07	0.07

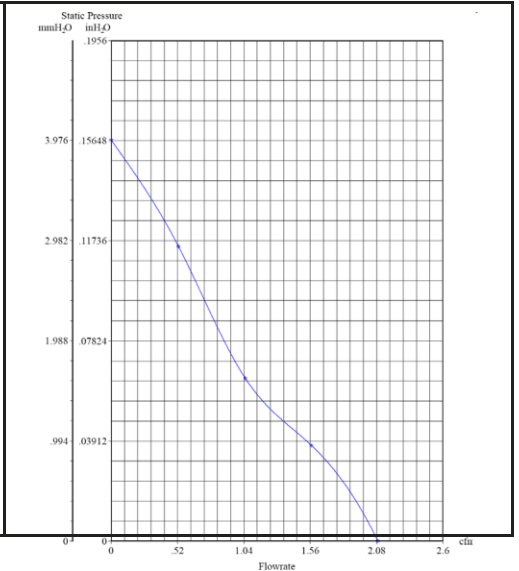


Frame & Impeller	PBT, UL94V-0 plastic
Connection	3x Lead wires *
Motor	Brushless DC, auto restart, polarity protected.
Bearing System	Dual ball bearing
Insulation Resistance	Min. 10M at 500VDC
Dielectric Strength	1 second at 500VAC max leakage 500 microamp
Temperature Range	-20C ~ +75C
Storage Temperature	-40C ~ +80C
Life (L10)	60,000 hours (40C)

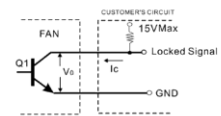
**Available Options**  
 IP55  
 Other speeds and voltages  
 Tachometer  
 PWM

\*Connection:  
 Wire Leads - UL1007  
 28AWG Red(+), Black (-), Yellow Alarm

Weight: 8 g



Output of locked signal  
 \*Output type.....Open collector type  
 \*Electrical design suggestion:  
 (External signal function design is decided by customer)



\*Transistor Q1 at "ON" position  
 Collector current..... $I_c=5mA$  Max  
 Saturation Voltage..... $V_{ce}=1.0V$  Max  
 (Between Collector and Emitter at  $I_c=5mA$ )  
 \*Transistor Q1 at "OFF" position  
 Release Voltage..... $V_{on}=15V$  Max

