



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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BRUSHLESS DC FANS

F310RF

FEATURES

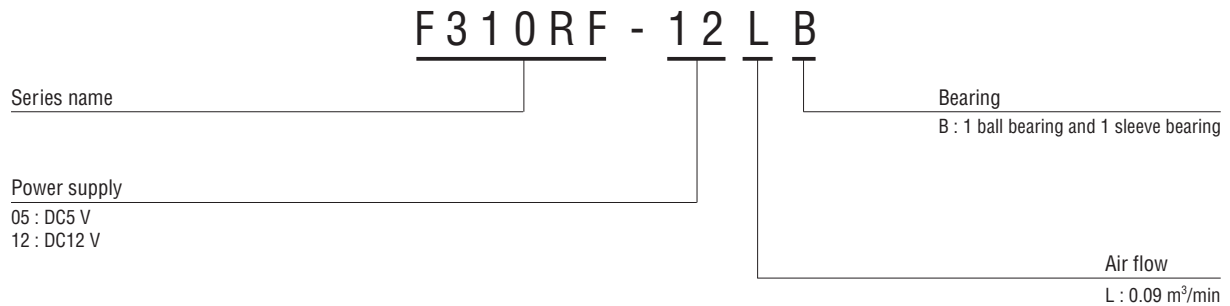
- Low noise, 17 dB (A)
- Light weight (approx. 8 g)

STRUCTURE

- Frame and impeller
Modified PPO resin and ABS/PBT alloy
- Bearing
1 ball bearing and 1 sleeve bearing



PART NUMBER DESIGNATION



LIST OF PART NUMBERS

| Power supply | Part number |
|--------------|-------------|
| DC5 V | F310RF-05LB |
| DC12 V | F310RF-12LB |

* : Verify the above part numbers when placing orders.

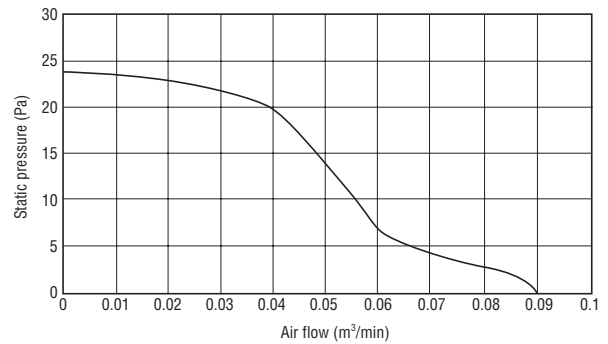
F310RF BRUSHLESS DC FANS

STANDARD SPECIFICATIONS

| Item | F310RF-05LB | F310RF-12LB |
|-----------------|--------------------------|---------------|
| Rated voltage | DC5 V | DC12 V |
| Voltage range | 4.5 ~ 5.7 V | 10.2 ~ 13.8 V |
| Rated current | 0.07 A | 0.04 A |
| Rotating speed | 7000 min ⁻¹ | |
| Air flow | 0.09 m ³ /min | |
| Static pressure | 23 Pa | |
| Noise | 17 dB (A) | |
| Net weight | Approx. 8 g | |

* : Figures in the table are typical values under rated operating condition.

AIR FLOW PERFORMANCE CURVES



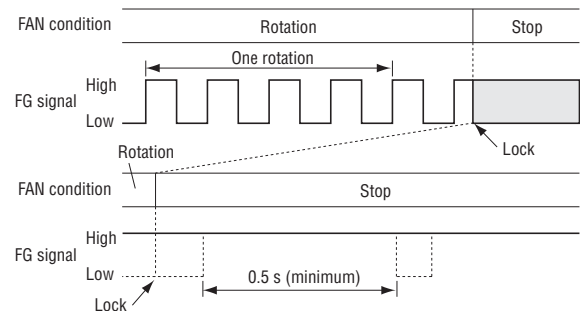
FG SIGNAL CHARACTERISTICS

| Item | Specification |
|------------------------------------|---|
| Output circuit | Open collector |
| Maximum output voltage | 15 V |
| Maximum sink current | 5 mA |
| Output saturation voltage (at Low) | Vsat : Maximum 0.4 V |
| Output (rotate) | 4 pulses / rotation |
| Output (lock) | High or High/Low intermittent motion * |
| Time a High Signal (lock) | 0.5 s minimum |

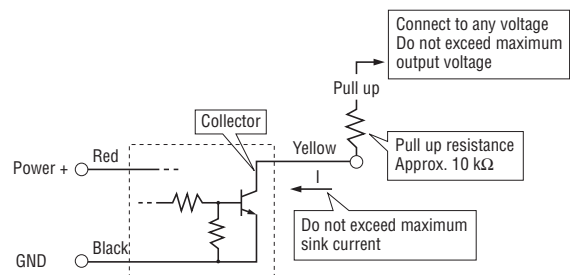
* : 2 conditions are possible according to the stop position of the impeller.

- ① "High" (Fixed) : Constantly "High"
- ② "High/Low" intermittent motion : "High" and "Low" switch at regular time intervals.
It is guaranteed that "high" continues over 0.5 seconds.

FAN condition and FG signal



Output circuitry



OUTLINE DIMENSIONS

(Unit: mm)

