BRUSHLESS DC FANS

F251RF

■ FEATURES

- FG signal type
- Low noise, 11 dB (A) type by the correct application of hydrodynamic design of impeller and frame
- Light weight (approx. 7 g)

■ STRUCTURE

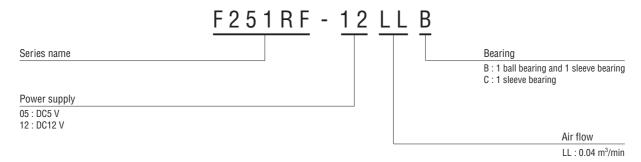
- Frame and impeller ABS/PBT alloy
- Bearing

B type: 1 ball bearing and 1 sleeve bearing

C type: 1 sleeve bearing



■ PART NUMBER DESIGNATION



■ LIST OF PART NUMBERS

Power supply	Part number
DC5 V	F251RF-05LLB
DC12 V	F251RF-12LLB
	F251RF-12LLC

*: Verify the above part numbers when placing orders.

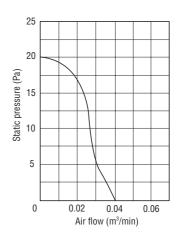
F251RF BRUSHLESS DC FANS

STANDARD SPECIFICATIONS

	FOR A DE LOCAL D	FOE4DE 40LLD	F0F4DF 40110
Item	F251RF-05LLB	F251RF-12LLB	F251RF-12LLC
Rated voltage	DC5 V	DC12 V	DC12 V
Voltage range	4.2 ~ 5.7 V	10.2 ~	13.8 V
Rated current	0.05 A	0.0	3 A
Rotating speed	6500 min ⁻¹		
Air flow	0.04 m³/min		
Static pressure	20 Pa		
Noise	11 dB (A)		
Net weight	Approx. 7 g		

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

■ AIR FLOW PERFORMANCE CURVES



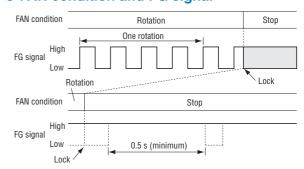
■ FG SIGNAL CHARACTERISTICS

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 来
Time a High Signal (lock)	0.5 s minimum

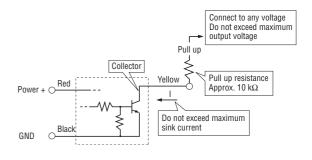
- *: 2 conditions are possible according to the stop position of the impeller.

 - "High" (Fixed): Constantly "High"
 "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 sighal

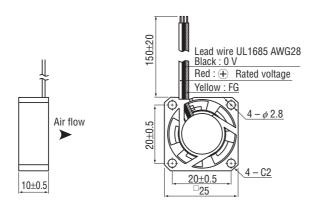


Output circuitry



(Unit: mm)

OUTLINE DIMENSIONS



Dimension of mounting hole for recommendation

