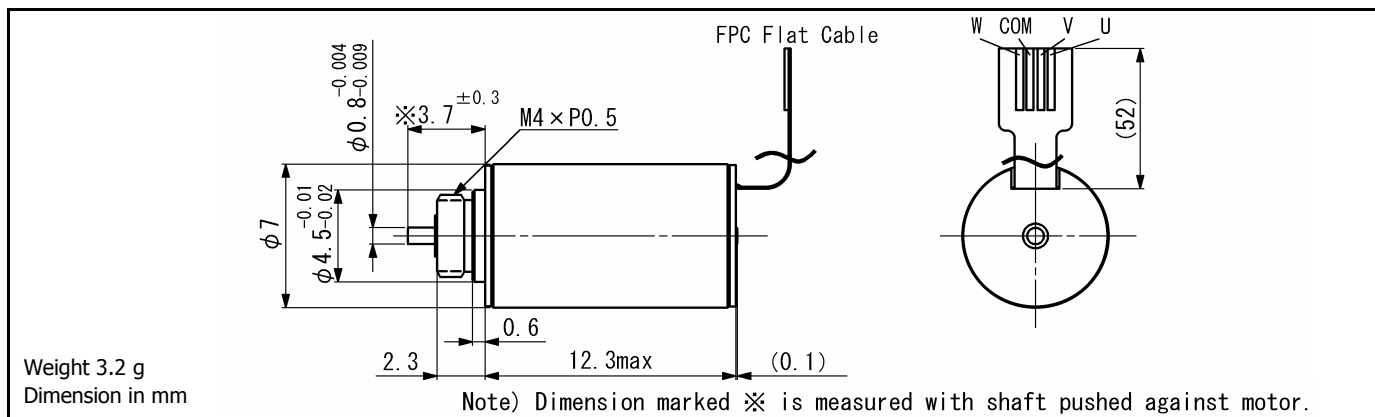


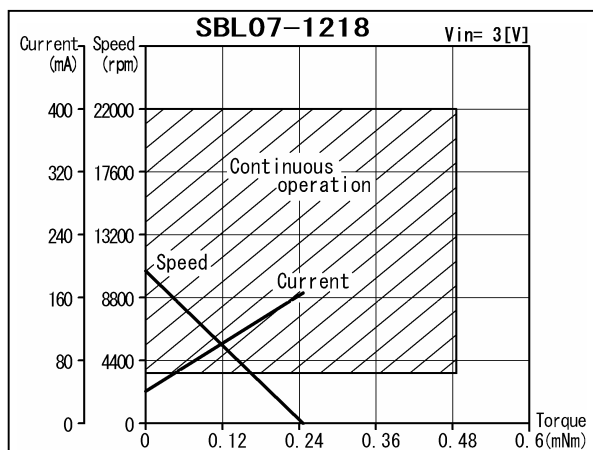
SBL07-12

Electronically commutated sensorless motor, slotless stator design



Sensorless drive circuit SSD07 Planetary gearhead SPG07

Ordering number		SBL07					-1218
1	Nominal voltage						3 V
2	Terminal resistance						18 Ω
3	Output power						0.07 W
4	Efficiency						25 %
5	No-load speed						10650 rpm
6	No-load current						41 mA
7	Stall torque						0.25 mNm
8	Friction torque						0.083 mNm
9	Back-EMF constant						0.21 mV/rpm
10	Torque constant						2.03 mNm/A
11	Slope of N-T curve						41977 rpm/mNm
12	Coil inductance						0.13 mH
13	Mechanical time constant (starting oscillating time neglected)						5.2 ms
14	Rotor inertia						0.012 gcm ²
Continuous operation							
15	Speed range						3500...22000 rpm
16	Max. torque						0.49 mNm



General specifications

17	Operating temperature	-20...+80	°C
18	Max. coil temperature	+90	°C
19	Thermal resistances	$R_{th1} = 4.4$, $R_{th2} = 32$	K/W
20	Bearings type	Sintered sleeves	
21	Max. shaft radial load	0.27 (3.7 mm)	N
22	Max. shaft axial load	0.1	N
23	Max. axial load at standstill	20	N
24	Shaft radial play	0.015	mm
25	Shaft axial play	0.23	mm

Options: Shaft length, special coils.

V01

Namiki Precision Jewel Co., Ltd

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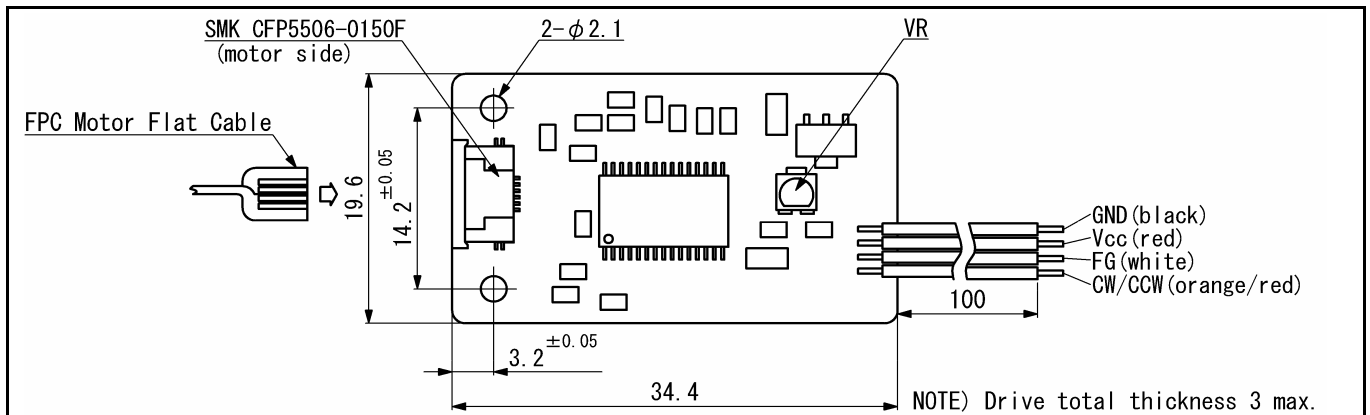
URL: www.namiki.net/

E-mail: kboinfo@namiki.net

Specifications subject to change without notice

SSD07

Sensorless brushless motor drive circuit



For DC brushless motor serie SBL07-12

Description

SSD07 is a 3-phase sensorless drive circuit designed to operate brushless motor SBL07-12 exclusively. The operating voltage can be adjusted by VR trimmer and motor shaft direction can be reversed by connecting CW/CCW input to Vcc, if not connected the motor runs CW. FG (Frequency Generator) output provides a pulse per motor revolution. Internal thermal protection circuit included.

Specifications

	SSD07			
	Min.	Typ.	Max.	
Voltage supply	2.7		6.0	V
Output voltage			4.9	V
Output current			0.8	A
Operating temperature range	-20...+75			°C
Weight	1.9			g

V01

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