

# SANMOTION F2

2-PHASE STEPPING SYSTEMS

## Small Size 2-Phase Stepping Motor

**14mm sq. (.55 inch sq.)**

### Features

**Industry's Top Small 14 mm sq. and Light Weight 28 g**

The information is current as of December, 2011. The above data is based on our own research, collected among 2-phase stepping motors for industrial use.

**High Torque**

### Application

Devices where mountable space is quite limited such as an electric gripper and an electric cylinder

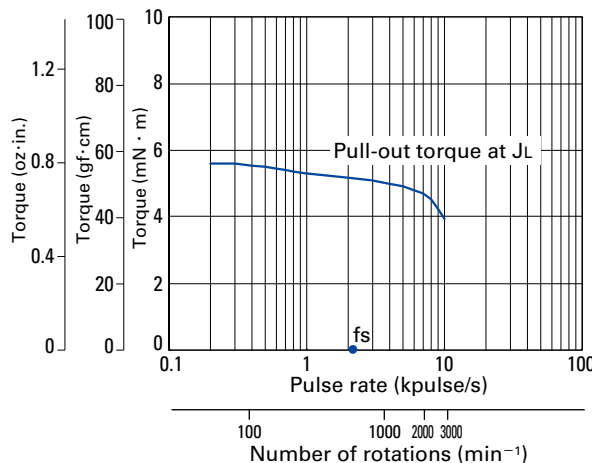
### Specification

1.8° /Step Bipolar winding

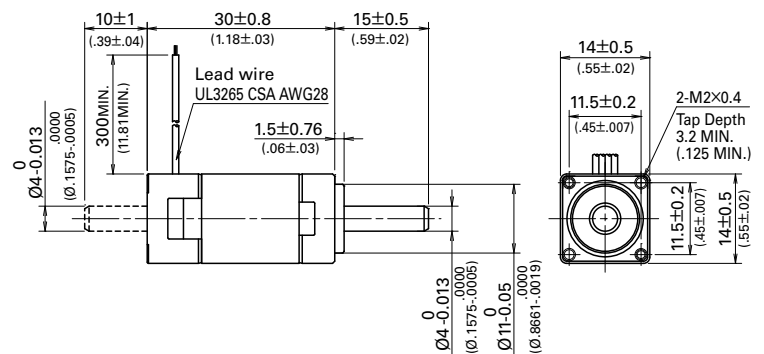
Model		Holding torque at 2-phase energization [N·m (oz·in) MIN.]	Rated current [A/phase]	Wiring resistance [Ω /phase]	Winding inductance [mH/phase]	Rotor inertia [ $\times 10^{-4}$ kg·m <sup>2</sup> (oz·in <sup>2</sup> ) ]	Mass [kg(lbs)]
Single shaft	Double shafts						
SH2141-5541	SH2141-5511	0.0065 (0.92)	0.3	21	4.2	0.00058 (0.0032)	0.028 (0.062)



### Pulse rate-torque characteristics



### Dimensions [unit : mm (inch)]



- Constant current circuit
- Source voltage: 24 V DC
- Operating current: 0.3A/phase
- 2-phase energization (full-step)
- $J_L = 0.01 \times 10^{-4}$  kg·m<sup>2</sup> (pulley balancer method)
- fs: No load maximum starting pulse rate

The data are measured under the drive condition of our company. The drive torque may vary depending on the accuracy of customer-side equipment.