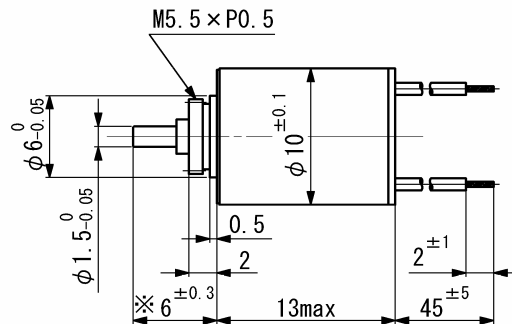
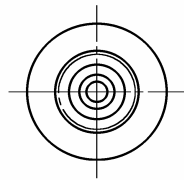


SCL10-12

Precious metal commutation



Weight 4.9 g
Dimension in mm

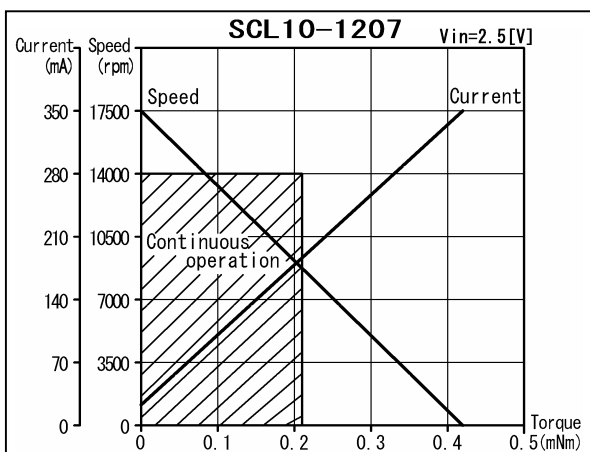
Note) Dimension marked ※ is measured with shaft pushed against motor.

For combination with gearhead: SSG10

Ordering number				SCL10-1207
1 Nominal voltage				2.5 V
2 Terminal resistance				7.1 Ω
3 Output power				0.19 W
4 Efficiency				55 %
5 No-load speed				17500 rpm
6 No-load current				23 mA
7 Stall torque				0.42 mNm
8 Friction torque				0.03 mNm
9 Back-EMF constant				0.13 mV/rpm
10 Torque constant				1.27 mNm/A
11 Slope of N-T curve				41800 rpm/mNm
12 Coil inductance				0.035 mH
13 Mechanical time constant				22.6 ms
14 Rotor inertia				0.05 gcm ²

Continuous operation

15 Speed range				14000 rpm
16 Max. torque				0.21 mNm



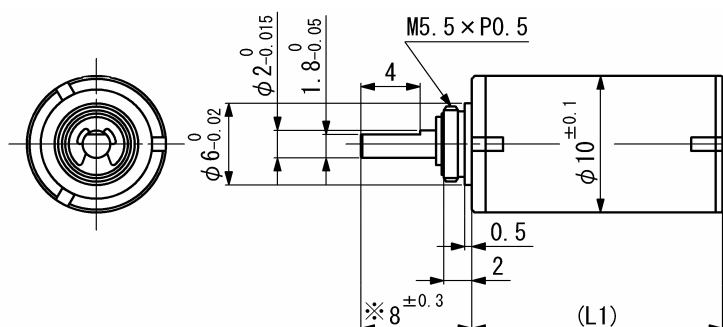
General specifications

17 Operating temperature	-20...+60	°C
18 Max. coil temperature	+80	°C
19 Thermal resistances	$R_{th1} = 21, R_{th2} = 61$	K/W
20 Bearings type	Sintered sleeves	
21 Max. shaft radial load	0.3 (5 mm)	N
22 Max. shaft axial load	0.1	N
23 Max. axial load at standstill	4.9	N
24 Shaft radial play	0.05	mm
25 Shaft axial play	0.03...0.2	mm

Options: Lead wires length, shaft length, special coils, commutator with capacitors.

SSG10

Spur gearhead



Dimension in mm

Note) Dimension marked ※ is measured with shaft pushed against gearhead.

For combination with motors: SCL10-12, SCL10-18, SCL10-30

General specifications

	SSG10	
Housing material	Metal	
Geartrain material	Metal	
Recommended max. input speed	10000	rpm
Operating temperature range	-10...+60	°C
Max. backlash at no-load with 6 stages	≤ 7	°
Bearings on output shaft	Sintered sleeve bearings	
Max. shaft radial load (6 mm from flange)	3	N
Max. shaft axial load	1	N
Max. shaft press fit force	20	N
Shaft radial play	≤ 0.03	mm
Shaft axial play	≤ 0.2	mm

Ratio (nominal)	Stage	Gearhead length, L1 [mm]	Gearhead weight [g]	Max. allowable torque [mNm]		Length with motor [mm]			Efficiency [%]	Direction of rotation
				Continuous	Intermittent	SCL10-12	SCL10-18	SCL10-30		
15 : 1	3	14	5.4	12	30	27	32.1	44.2	73	≠
29 : 1	4	16	6.2	12	30	29	34.1	46.2	66	=
49 : 1	5	18	7	12	30	31	36.1	48.2	59	≠
72 : 1	5	18	7	12	30	31	36.1	48.2	59	≠
93 : 1	5	18	7	12	30	31	36.1	48.2	59	≠
262 : 1	6	20	7.9	12	30	33	38.1	50.2	53	=