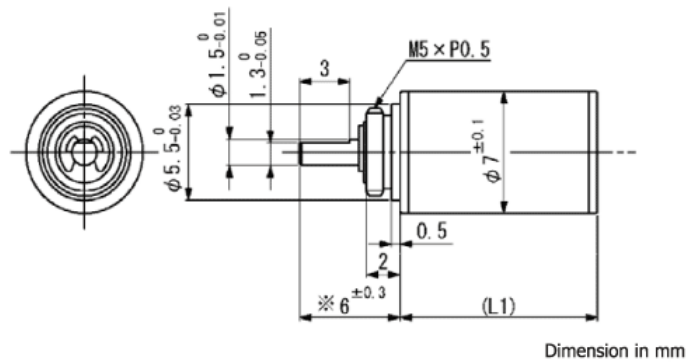


Gearhead SPG07

Gearhead Motor

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Planetary Gearhead



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

SPG07 General specifications

Gearhead SPG07			
1	Housing material	Metal	
2	Geartrain material	Steel	
3	Recommended max input speed	12000	rpm
4	Operation temperature range	-10...+60	°C
5	Backlash at no-load per stage	≤ 1	°
6	Bearings on output shaft	Sintered Sleeve bearings	

Gearhead SPG07				
7	Max shaft radial load(7mm from flange)	1	N	
8	Max shaft axial load	0.5	N	
9	Max shaft press fit force	10	N	
10	Shaft radial play	≦0.03	mm	
11	Shaft axial play	≦0.3	mm	
12	Max allowable torque (Continuous)	10	mNm	
13	Max allowable torque (Intermittent)	20	mNm	

Spec Based on stages

		Gear Ratio				
		SPG07-4.7	22	105	494	
14	Reduction ratio (absolute value)	4.71:1	22.22:1	104.77:1	493.93:1	
15	Number of stage	1	2	3	4	
16	Efficiency	85.0	72.0	61.0	52.0	%
17	Direction of rotation	=	=	=	=	
18	Gearhead length : L1	7.4	9.6	11.8	14.1	mm
19	Weight	2	2.5	3	3.5	g

Combination with motor

Reduction ratio (Motor + gearhead total length)						
Type	Model name	4.7	22	105	494	
Coreless Motor	CMS07-17..P	24.9	27.1	29.3	31.6	mm
Brushless Motor	BMS07-13..P	20.9	23.1	25.3	27.6	mm

*Example: CMS07-1707 MOTOR + SPG07(4.7) → CMS07-1707P4.7