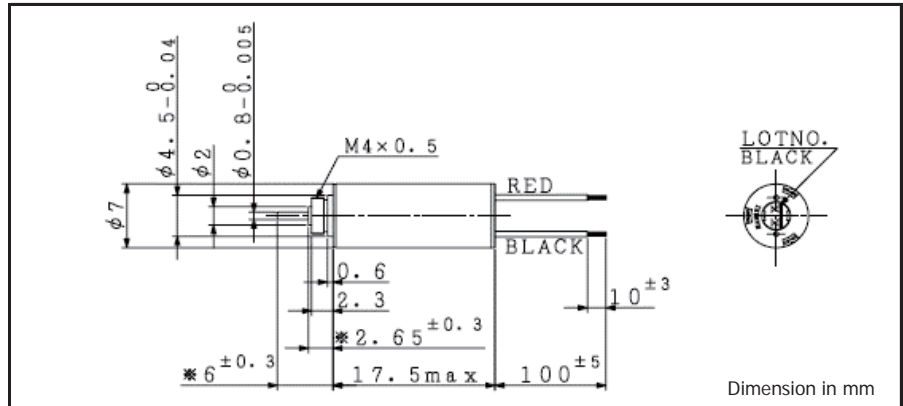


**CMS 07-17       $\phi 7$  , 0.14 mNm**

Precious metal commutation, Sleeve bearing



For combination with gearhead: SPG07

Ordering number	CMS 07-1707		CMS 07-1725	
	1 Nominal voltage	3.7	7.4	V
2 Rated torque	0.138	0.140	mNm	
3 Rated speed	17100	18600	rpm	
4 Rated current	101	56	mA	
5 No load speed	20300	22000	rpm	
6 No load current	19	10	mA	
7 Stall torque	0.86	0.89	mNm	
8 Stall current	0.53	0.30	A	
9 Output power	0.5	0.5	W	
10 Max. efficiency	66	66	%	
11 Terminal resistance	6.92	24.79	W	
12 Friction torque	0.03	0.03	mNm	
13 Back-EMF constant	0.176	0.324	mV/rpm	
14 Torque constant	1.68	3.10	mNm/A	
15 Slope of N-T curve	23481	24669	rpm/mNm	
16 Mechanical time constant	6.46	6.76	ms	
17 Rotor inertia	0.03	0.03	gcm <sup>2</sup>	
18 Max. torque	0.43	0.45	mNm	

**Mechanical data**

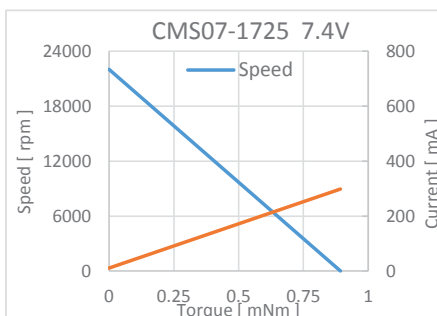
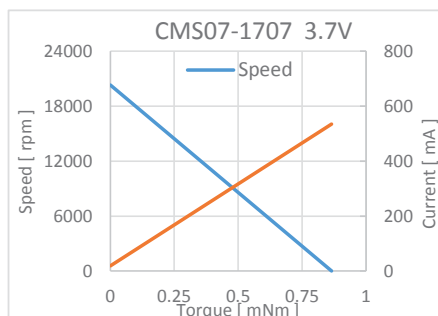
19 Shaft radial play	0.05	mm
20 Shaft axial play	0.03 ~ 0.2	mm
21 Max. shaft radial load	0.03 (5 mm)	N
22 Max. shaft axial load	0.1	N
23 Max. shaft axial load at standstill	4.9	N

**Environmental specifications**

24 Operating temperature	-20 ~ 60	°C
25 Max. coil temperature	80	°C

**Other specifications**

26 Weight	3.5	g
27 Number of segments	5	
28 Bearing type	Sintered sleeve	



V01

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Specifications are subject to change without notice.