

CMS07-1707/CMS07-1726

DC Coreless Motors CMS Series

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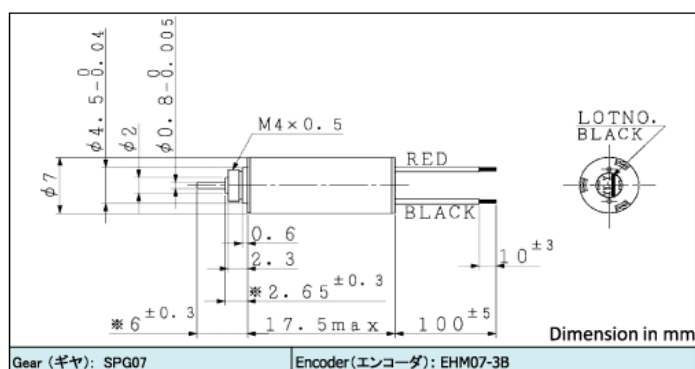
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[Brushed Motor](#)

[Brushed Motor CMS07-17](#)

Precious metal commutation, Sleeve bearing Brushed Motor.



CMS07-17 Specifications

		Brushed Motor CMS07-1707	<u>Brushed Motor</u> CMS07-1726	
1	Nomal voltage	3.7	7.4	V
2	No load speed	20200	22100	rpm
3	No load current	19	10	mA
4	Stall torque	0.94	0.84	mNm
5	Stall current	571	283	mA

		Brushed Motor CMS07-1707	<u>Brushed Motor</u> CMS07-1726	
6	Output power	0.5	0.5	W
7	Max efficiency	67	65	%
8	Terminal resistance	6.48	26.12	Ω
9	Rated torque	0.144	0.135	mNm
10	Rated speed	17100	18600	rpm
11	Rated current	104	54	mA
12	Friction torque	0.03	0.03	mNm
13	Back-EMF constant	0.177	0.322	mV/rpm
14	Torque constant	1.69	3.07	mNm/A
15	Slope of N-T curve	21543	26410	rpm/mNm
16	Mechanical time constant	6.8	7.5	ms
17	Rotor inertia	0.03	0.03	gcm ²
18	Max torque	0.31	0.28	mNm

*CMS07-17 is a [Brushed Motor](#) with a diameter of 7 mm and length of 17 mm.

* How to read the model number (motor only) 「 CMS xx - yy zz 」

CMS…Coreless [Brushed Motor](#) standard series、xx…Diameter(mm)、yy…Length(mm)、zz…Terminal resistance (Ω, approximate value)

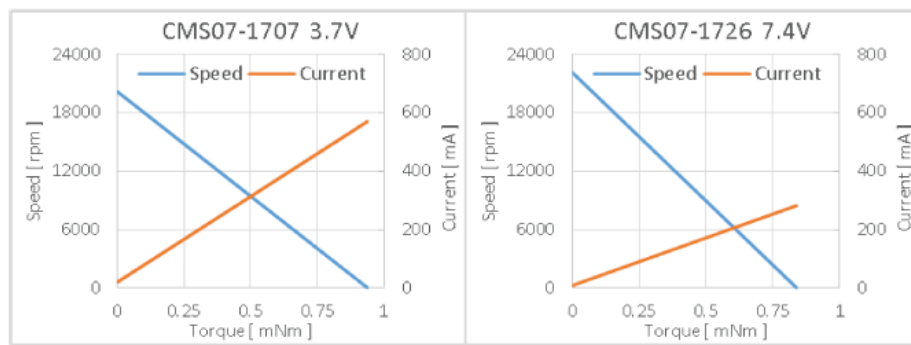
Mechanical data

19	Shaft raddial play	0.05	mm
20	Shaft axial play	0.03~0.2	mm
21	Max shaft radial load	0.3 (5mm*)	N
22	Max shaft axial load	0.1	N
23	Max shaft axial load at standstill	4.9	N

*measured at () mm from flange

Environmental data

24	Operating temperature	-20~80	°C
25	Max coil temperature	80	°C
26	Weight	3.5	g
27	Number of segments	5	
28	Bearing type	Sintered sleeve	



# 1	Vcc(DC5V±10%)
# 2	Ch. B
# 3	Ch. A
# 4	Ch. Z
# 5	GND
# 6	MOTOR(+)
# 7	MOTOR(-)
# 8	-