

## 1627N5M (1) | 贵金属电刷 Precious Metal Commutation

应用领域：医疗、保健、汽车、机器人、工业自动化等精密驱动领域。

Applications: precision drives in medical equipment and devices, healthcare products, automotive, robotics, and industrial automation.

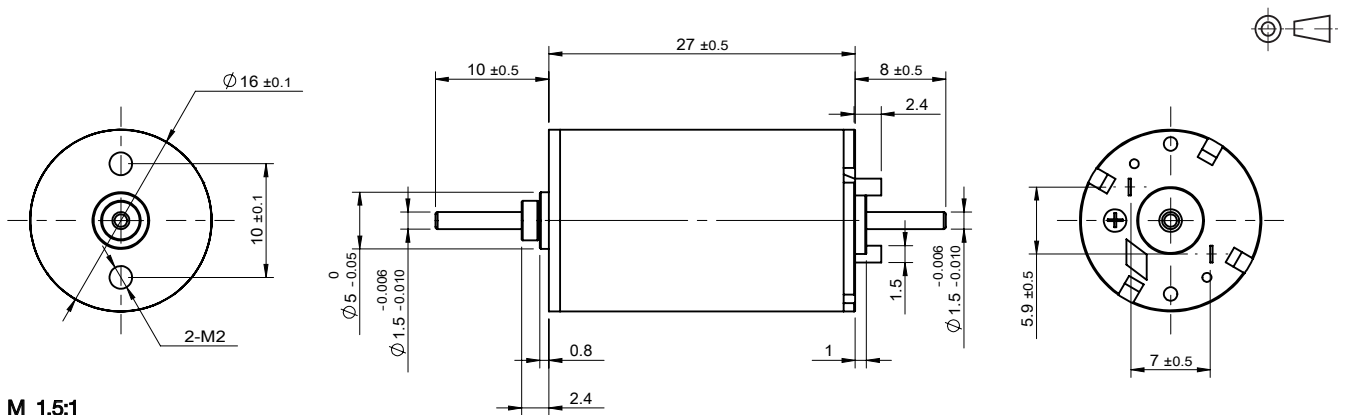
### 主要技术指标 | Characteristics

			07-101-4.5	20-113-6.0	14-118-12.0
1 电压	Voltage	V	4.5	6.0	12.0
2 端电阻	Terminal resistance	Ω	1.5	1.8	8.7
3 空载转速	No-load speed	rpm	10100	11300	11800
4 空载电流	No-load current	mA	50	50	20
5 堵转转矩	Stall torque	mNm	12.3	16.4	13.0
6 堵转电流	Stall current	mA	3000	3330	1380
7 额定转矩	Nominal torque	mNm	3.0	4.0	3.3
8 额定转速	Nominal speed	rpm	7640	8540	8810
9 额定电流	Nominal current	mA	770	850	360
10 最大输出功率	Max. output power	W	3.3	4.9	4.0
11 最大效率	Max. efficiency	%	76	77	77
12 反电势常数	Back-EMF constant	mV/rpm	0.4	0.5	1.0
13 转矩常数	Torque constant	mNm/A	4.2	5.0	9.6
14 转速 / 转矩斜率	Speed/torque gradient	rpm/mNm	820	690	910
15 转子惯量	Rotor inertia	gcm <sup>2</sup>	0.6	0.6	0.7
16 重量	Weight	g	25	25	25
17 热阻 (机壳 - 环境)	Thermal resistance housing-ambient	K/W		24.88	
18 热阻 (线圈 - 机壳)	Thermal resistance winding-housing	K/W		29.38	
19 热时常数 (电机)	Thermal time constant motor	s		228	
20 热时常数 (线圈)	Thermal time constant winding	s		176	
21 工作温度范围	Operating temperature range	°C		-20~+85	
22 绕组耐温等级	Thermal class of winding	°C		130	
23 轴向间隙	Axial play	mm		0.02~0.15	
24 径向间隙	Radial play	mm		0.014	
25 动态轴向载荷	Axial load dynamic	N		0.8	
26 静态轴向载荷	Axial load static	N		30	
27 径向载荷 (距安装面 3mm)	Radial load at 3 mm from mounting face	N		1.4	
28 极对数	No. of pole pairs			1	
29 轴承	Bearings			2 枚含油轴承/2 sleeve bearings	
30 换向结构	Commutator			贵金属 5 相/metal 5 segments	
31 防护等级	Protection class			IP 30	

★可选参数 Options: 导线长度 Lead wires length 轴长 Shaft length 性能 Special coils 轴承类型 Bearing type

齿轮箱 Gearheads 编码器 Encoder

### 外观图 | Outline Drawing



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