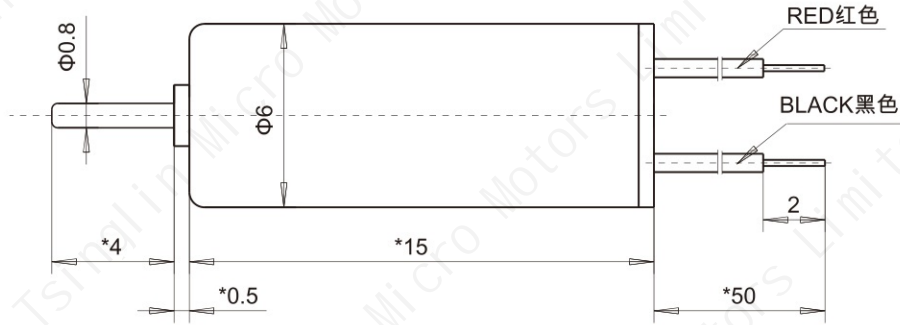


TSL-CL0615 Series $\Phi 6 \times L15$

稀有贵金属电刷 Precious Metal Brushes 0.3W



电机参数 Motor Parameter			电机型号 Motor Model				
额定电压下的数值 Values at nominal voltage			TSL-CL6A1-035142	TSL-CL6A1-036121	TSL-CL6A1-050141	TSL-CL6A1-075121	TSL-CL6A1-075121
1	额定电压 Rated voltage	V	1.5	3.7	3.7	3.7	4.5
空载点 Free Load	2 空载转速 No load speed	rpm	28100	37200	45700	32300	39300
	3 空载电流 No load current	mA	51	25	37	21	30
最大效率点 At Max. Efficiency	4 最大效率 Max. efficiency	%	48%	56%	57%	56%	53.70%
	5 转速 Speed	rpm	22400	30200	37400	26300	31500
	6 电流 Current	mA	198	107	167	92	120
最大输出功率点 At Max. Output	7 转矩 Torque	g.cm	0.62	0.71	0.92	0.71	0.9
	8 最大功率 Max. output	W	0.22	0.36	0.59	0.31	0.46
	9 转速 Speed	rpm	14000	18600	22900	16200	19700
堵转点 At Stall	10 电流 Current	mA	414	244	392	210	257
	11 转矩 Torque	g.cm	1.52	1.9	2.5	1.88	2.26
堵转点 At Stall	12 堵转电流 Stall current	A	0.78	0.46	0.75	0.4	0.48
	13 堵转转矩 Stall torque	g.cm	3.04	3.79	5.01	3.76	4.53
电机常数 Motor Constants							
14	端电阻 Terminal resistance	Ω	1.9	8	5	9.3	9.3
15	转矩常数 Torque constant	g.cm/A	4.2	8.6	7.1	10	10
16	转速常数 Speed constant	rpm/V	20000	10600	13000	9200	9200
17	速度/转矩常数 Speed/Torque constant	rpm/g.cm	9240	9820	9130	8590	8590

电机特性 Motor characteristic | 典型性能 Typical performance

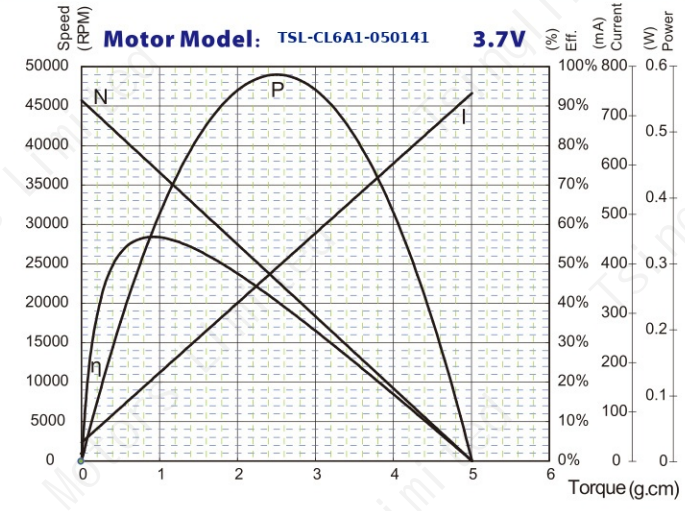
热参数 Thermal parameters		
18	环境温度范围 Ambient temperature	-20~+65 $^{\circ}\text{C}$
19	绕组最高允许温度 Max. permissible winding temperature	85 $^{\circ}\text{C}$
机械参数 Mechanical parameters		
20	最高空载允许转速 Max. permissible No-load speed	50000 rpm
21	最大轴向载荷(动态) Max. axial load(dynamic)	0.15 N
其他参数 Other parameters		
22	电机磁极对数 Number of pole pairs	1
23	换向器片数 Number of commutator segments	3-5
24	电机重量 Weight	1.6 g

备注 Remarks

- 外形图中带“*”尺寸可根据客户需求调整。
- 可按客户要求对性能、安装、电源连接方式、外形尺寸的设计。
- 电机可配置铁、铜、钨等材质及各种形状尺寸的偏心锤，组成振动电机。

1) Dimension with "*" in the drawing can be adjusted according to customer's requirement.
 2) Motor can be designed upon customer's requirements on performance, installation, power connection method and motor dimension.
 3) Motor can be mounted with various shape and sizes of eccentric weight which is made of iron, brass or ferro-alloy to become vibration motor.

1g=0.035oz	1inch=25.4mm	1g.cm=0.098mN.m
1oz=28.35g	1mm=0.0394inch	1mN.m=10.2g.cm



备注：电机测试环境温度：常温 25 - 30 $^{\circ}\text{C}$ 。
 NOTE: Ambient temperature 25 - 30 $^{\circ}\text{C}$