



## GEP-GR1206 4500kv/6000KV/7500kv Motor Introduce



### 简介：

迷你轴距穿越机带给玩家许多乐趣，然而动力也在升级，新的 GEP-GR1206 将会是迷你轴距的更强动力输出，GR1206 将会有 3 个 KV 的选择，满足玩家对不同情况的需求。4500KV 推荐搭配 3 寸螺旋桨，3~4S 电池。6000KV 推荐搭配 2.5~3 寸螺旋桨，3S 电池。7500KV 推荐搭配 2.5 寸螺旋桨，3S 电池。

### Summary:

The Micro-FPV quads gives players a lot of fun, but the power is also being upgraded. The new GEP-GR1206 will be a stronger power output. GR1206 will have 3 KV options to meet players' needs for



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different situations. The 4500KV is recommended with 3-inch propeller and 3~4S battery. The 6000KV is recommended with 2.5~3 inch propeller and 3S batteries. The 7500KV is recommended with 2.5 inch propeller and 3S battery.

### Specification:

- Item name: GEP-GR1206
- KV: 4500KV/6000KV/7500KV
- Configuration: 9N12P
- Stator Diameter: 12mm
- Stator Length: 6mm
- Shaft Diameter: 2mm
- Motor (Dimension(Dia.\*Len)):  $\Phi$  15.8\*17mm
- No. of Cells(Lipo): 2~4S
- Internal Resistance: 180m  $\Omega$  / 120m  $\Omega$  / 95m  $\Omega$
- Max Current(180S): 15A
- Rotor: N52H arc magnets
- Bearings: NMB 520
- Base casing: Al 7075
- Wire AWG: 28AWG
- Weight(g): 8.3g

### 特性/Features :

1. 全新 1206 无刷电机，更强劲的动力输出
  2. 轻量化底座设计，重量减轻强度不变
  3. 上盖特别设计，高效散热，结构结实
  4. 精密 CNC 加工，航空铝 7075 铝材，高精度，高强度
  5. 采用 N52H 号磁铁，既保证扭力，耐高温不掉磁
  6. 日本 NMB520 轴承，确保电机高速运转时的低振动和低噪音
  7. 优良的散热结构设计，和同型号电机温度降低 20%
  8. 180°C 耐高温漆包线
  9. 可靠的磁路优化，启动更顺滑
  10. 重量仅 8.3g（包括线材）
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### Features :

1. The new 1206 brushless motor has a stronger power output
2. Lightweight base design, no change in weight reduction intensity
3. The upper cover is specially designed for efficient heat dissipation and strong structure
4. Precision CNC processing, aviation aluminum 7075 aluminum, high precision, high strength
5. N52H magnet is adopted to ensure torque and high temperature resistance without losing magnetism
6. NMB520 bearing of Japan ensures low vibration and low noise when the motor runs at high speed
7. Excellent heat dissipation structure design and 20% reduction of temperature of the same type of motor
8. 180 °C high temperature resistant enameled wire
9. Reliable magnetic circuit optimization, smoother start
10. The weight is only 8.3g (including wire)

### 包含 :

1 x GR1207 电机

4 x M2\*4 螺丝

4 x M2\*5 螺丝

4 x M2\*7 螺丝

### Include :

1 x GR1206 motor

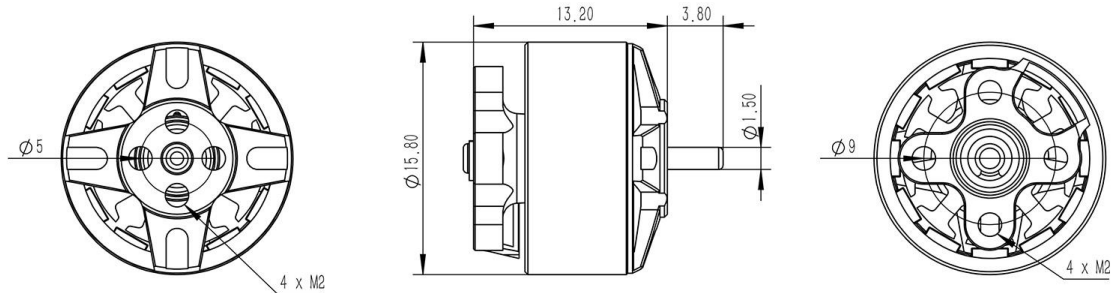
4 x M2\*4 screws

4 x M2\*5 screws

4 x M2\*7 screws

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## 设计工程图



## GR1206参数力效表

Technical Datas			
KV	4500	6000	7500
Configu-ration	9N12P	9N12P	9N12P
Stator Diamter	12mm	12mm	12mm
Stator Length	6mm	6mm	6mm
Shaft Diameter	2mm	2mm	2mm
Motor Dimension(Dia.*Len)	Φ15.8*17mm	Φ15.8*17mm	Φ15.8*17mm
Weight(g)	6.5	6.5	6.5
Idle current(10@10V(A)	0.75	1.15	1.8
No.of Cells(Lipo)	3-4S	3S	3S
Max Continuous Power(W)180S	145	165	165
Internal Resistance	180mΩ	120mΩ	95mΩ
Max Current(180S)	12A	14A	14A



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Motor	Prop	Voltages(V)	Throttle(%)	Load Current (A)	Pull(g)	Power(W)	Efficiency(g/W)	Temperature(in full throttle load 2min)
GR1206 4500KV	银燕 3024	12V	50%	3.61	126	43	2.93	58°C
			60%	5.07	161	59.9	2.69	
			70%	6.39	198	75.42	2.63	
			80%	8.3	233	96.81	2.41	
			90%	10.45	263	121.04	2.17	
			100%	12.7	291	145.62	2	
	乾丰 2540-3	12V	50%	2.31	75	2.31	2.73	48°C
			60%	3.22	105	38.05	2.76	
			70%	4.16	136	49.27	2.76	
			80%	5.34	169	62.83	2.69	
90%			6.48	202	75.96	2.66		
100%			8.06	235	93.76	2.51		
GR1206 6000KV	银燕3024	8V	50%	3.7	93	28.98	3.21	49°C
			60%	5.1	119	39.62	3	
			70%	6.42	147	49.59	2.96	
			80%	8.48	177	65.03	2.72	
			90%	10.67	205	81.17	2.53	
	乾丰 2540-3	12V	50%	4.07	115	48.41	2.38	63°C
			60%	5.24	152	62.12	2.45	
			70%	6.97	195	82.21	2.37	
			80%	9.03	235	105.29	2.23	
			90%	11.45	277	133.55	2.07	
GR1206 7500KV	乾丰2040	12V	50%	4.73	92	56.34	1.63	60°C
			60%	5.91	128	70.02	1.83	
			70%	7.67	164	90.64	1.81	
			80%	9.52	200	110.68	1.81	
			90%	11.58	234	133.71	1.75	
			100%	14.36	272	165.13	1.65	
	乾丰2540	8V	50%	4.04	86	31.7	2.71	50°C
			60%	5.15	113	40.18	2.81	
			70%	6.73	141	52.47	2.69	
			80%	8.48	169	64.8	2.61	
90%			10.64	197	80.94	2.43		
100%			13.21	228	99.1	2.3		