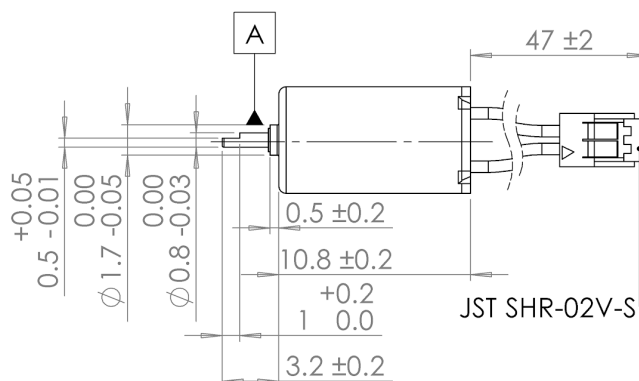
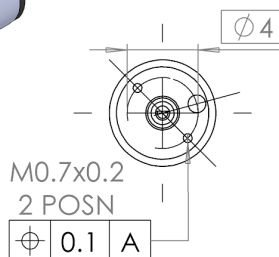
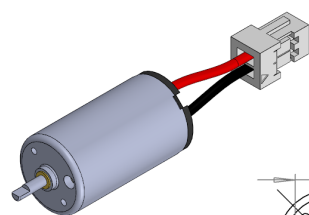
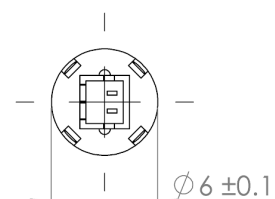


106-10C Brushed motor Coreless (precious metal brushes)

Ø6 x 11mm / fit for gearbox



DIMENSIONS ARE IN mm
SURFACE FINISH: N7
TOLERANCES:
LINEAR: ± 0.2
ANGULAR: $\pm 1^\circ$



3RD ANGLE
PROJECTION



Design and accessories			Units	Samples available	Manufacturable on request	Custom design
				106-10C		106-XXX
A	Availability			Stocked design		8 weeks
B	Motor Type			Brushed		Brushed
C	Commutation			Precious metal brush		Precious metal brush
D	Shafts			Single		Single
E	Gearbox			Not fitted		Range 1:5.14 ~ 1:698
F	Encoder			Not fitted		Please contact support@pmdri.com
G	Connections			JST SHR-02V-S		
H	Cable			47mm x AWG32		
I	Housing Material			Nickel plated steel		Nickel plated steel
I	Body diameter	mm		6		
K	Body length	mm		10.8		
L	Weight	g		1.3		
Performance characteristics						
1	Nominal voltage	V		3.0		Nominal load, no load, and stall points, and efficiency will depend on the winding design. Please contact support@pmdri.com
2	No load speed	rpm		34 330		
3	No load current	A		0.016		
4	Nominal speed	rpm		21 360		
5	Nominal torque	mNm		0.12		
6	Nominal current	A		0.170		
7	Stall torque	mNm		0.32		
8	Stall current	A		0.625		
9	Maximum efficiency	%		63.9		
Winding specific characteristics						
10	Terminal resistance	Ω		7.20		Winding dependent
11	Terminal inductance	uH		51		
12	Torque constant (Kt)	mNm/A		0.80		
13	Speed constant (Kv)	rpm/V		11 900		
14	Speed / torque gradient	rpm/mNm		108 081		
15	Mechanical time constant	ms		43		
16	Rotor inertia	g·cm²		0.019		
Motor body characteristics				Performance curve (based on ambient 25°C)		
17	Thermal resistance housing-ambient	°C/W	91.0	106-10C Speed Current Power Out Efficiency		
18	Thermal resistance winding-housing	°C/W	21.0			
19	Thermal time constant winding	s	2			
20	Thermal time constant motor	s	67			
21	Ambient temperature	min °C	-20			
		max °C	+60			
22	Max. permissible winding temperature	°C	+85			
23	Max. permissible rotor speed	rpm	56 000			
24	Axial play at axial load	mm	0.3 max			
25	Max. axial load (dynamic)	N	0.08			
26	Max. force for press fits (static)	N	8.0			
27	Max. radial loading (3mm from flange)	N	0.25			
28	Number of magnet pole pairs		1			