Mini Pupper Servo Specification				Date: 2021-10-26			
1. App	ly Environmenta	ıl Condit	tion:				
No.			Item		Spe	Specification	
1-1	Storage Temperatu	ıre Range			-30℃~80℃		
1-2	Operating Tempera	Operating Temperature Range			-20°C ~60°C		
2. Sta	ndard Test Envi	ronment:	;				
No.		Item			Specification		
2-1	Temperature Range				25℃ ±5℃		
2-2	Humidity Range				65%±10%		
3. Sec	ure Performance	and Cer	rtificate				
No.	Item	Cert	ificate		Remarks		
3-1	EMC	,	Yes				
3-2	ROHS	,	Yes				
4. App	earance Inspect	ion:					
No.		Item		Specification			
4-1	OutlineDrawing			See the appendix			
4-2	Appearance			No damage and mustn't affect functions.			
5. Ele	ctrical Specifi	cation		l			
No.	Item		Specification	Specifica	ation	Remark	
5-1	Operating Voltage			4.8V	6V		
5-2	No Load Speed			0.125sec/60° (80RPM)	0.1sec/60° ((100RPM)	
5-3	Running Current (no load)			140mA	170mA	I	
5-4	Stall Torque (at	looked)		2.8kg.cm	3. 5kg.	cm	
)-4	Stall lorque (at	Tocked)		38.95oz.in	48. 69oz	.in	
5-5	Stall Current (at locked)			1000mA	1200m	A	
5-6	Idle Current (at stopped)		6mA	6mA			
5-7	Input Voltage			3. 5\	3. 5V-7. 4V		
5-8	Rated Torgue			0.9kg.cm	1.15kg.	сm	
5-9	Rated Current			300mA	400mA	1	
5-10	Kt parameter		2, 9k	g.cm/A			
	hanical Specifi	cation:			- ·		
No.	Item	•	Sp	ecification		Remarks	
6-1	Size		23. 2X12. 1X25. 25mm		See drawings		
5-2	Limit Angle		No limit				
5-3	Case material		PC plastic				
6-4 S F	Gear material		Metal Gear				
5-5	Bearing type		No	Carbon-Film			
			Туре	Potentiometer			
6-6	Angle Sansor		Angle	220°			
			Life	100000Cycles Min			

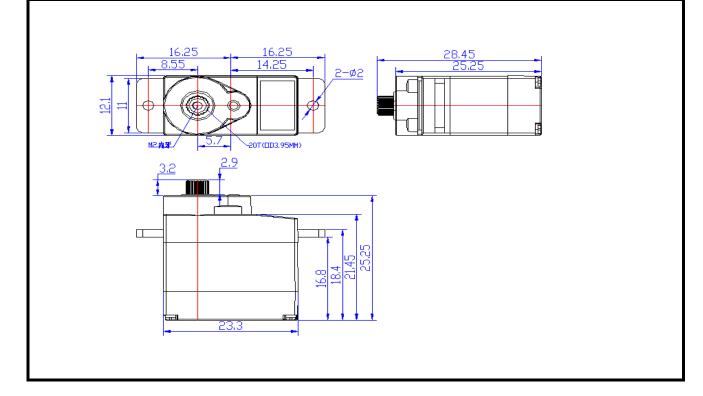
6-7	Connector and Cable	Type Material	JR PVC	3 2
		Length	16CM	1
		Pin Definition	1 Signal 2 Vcc 3 GND	
6-8	The Weight	13.5 \pm 1g		
6-9	Horn Type	20T/3.95mm		
6-10	Gear Ratio	1/416		
6-11	Back Lash	≤2.0°		
6-12	The rocker phantom	0°		
6-13	The rocker screw	M2. 0X4		
6-14	Motor	Core Motor		

7 Control Specification:

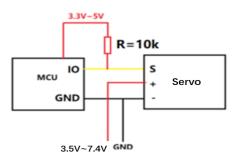
No.	Item	Specification	Remarks
7-1	Command Signal	Pulse width modification	
7-2	Control System Type	Digital comparator	
7-3	Operating Travel	180° (at 500→2500 μ sec)	
7-4	Left&Right Travelling Angledeviation	≤ 5°	
7-5	Centering Deviation	≦2°	
7-6	Neutral Position	1500 μ sec	
7-7	Dead Band Width	≤4 μsec	
7-8	Rotating Direction	Counterclockwise(1500→2000 μ sec)	
7-9	Pulse Width Range	500→2500 μ sec	
7-10	Electronic Protection	Stall 8Sec	

No.	Item	Specification	Remarks
8-1	Life test	>50000 times	
8-2	The motor noises	45±5dB	
8-3	Steering gear noises	70±5dB	
8-4	Waterproof performance	No	

9 Outside Dimension(Unit: mm)



10 Interface Definition				
Control signal parameter				
Signal Period	20ms			
Pulse Width	500us-2500us			
Signal high Voltage	2V-5V			
Signal Low Voltage	0. 0V-0. 45V			



11 The Packaging Detail

