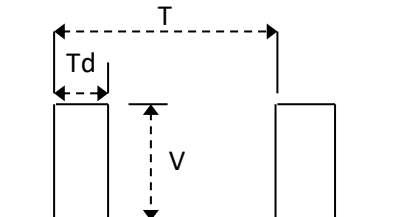
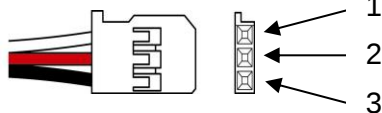
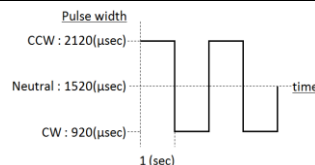


AD3AF Technical Specification

	Item	Specification				Remark		
1	Communication Interface	PWM				Signal Voltage:V	HIGH : min. 1.5V max. Vcc	
						Frame Rate:T	14.25~20ms	
						CW/Center/CCW:Td	920/1520/2120μs (Resolution recommends less than 1μs.)	
								
2	Rated Voltage	DC 4.8~DC 6.0V				—		
3	Operating Voltage	DC 4.0~DC 6.0V				—		
4	Standby Current	≤ 15mA				at 4.8~6.0V		
5	Starting Current*	1.7A				at 6.0V		
6	Consumption Current*	LL	Me	UL	unit	at 6.0V , No-Load		
		100	210	320	mA	LL : Low Limit Me : Medium Value UL : Upper Limit		
7	Max. Torque*	LL	Me	UL	unit	at 6.0V		
		6.2	8.9	11.6	kgf-cm			
		0.6	0.9	1.1	N-m			
		86.1	123.6	161.1	ozf-in			
8	Rated Torque*	2.7			kgf-cm	at 6.0V 30% of Max. Torque		
		0.26			N-m			
		37.1			ozf-in			
9	No Load Speed*	LL	Me	UL	unit	at 6.0V		
		0.17	0.20	0.23	s/60°			
		260.9	300.0	352.9	°/s			
		43.5	50.0	58.8	rpm			
10	Default Travel Angle	CW 60° (920us) CCW 60° (2120us)				—		
11	BackLash*	≤ 0.7°				—		
12	Operating Temperature Range	-10~+45°C (14~113°F)				—		
13	Storage Temperature Range	-20~+60°C (-4~140°F)				—		
14	Outer Dimension	40.0 x 20.0 x 38.1mm (1.57 x 0.79 x 1.5 in)				—		
15	Weight	46.5g (1.64oz)				with Horn and set screw		
16	Case Material	Upper,Middle,Bottom : Resin				—		
17	Gear Set Material	1st : Resin , 2nd,3rd,4th(Final) : Metal				—		
18	Cable	Non-Shielded Cable				Cable Length : 7.87 inch (200mm)		
19	Connector	Manufacture		J.A.M. Co., Ltd.				
		Type		FC25-03HG**				
		Mating		FC25-03M** etc.				
		Pin Assignment		1	White			PWM
				2	Red			Vcc
		3	Black	GND				
20	MTTF	TBD				<u>Test Condition</u> - Load : 20% of Max. Torque - Operating Condition : 0.5Hz sweep (±60°) - Input Pluse : PWM 		
21	Vibration Resistance *	Operating time > 10h (at 6.0V) Non-Operating time > 90h				Test Condition		
						Frequency range		80 to 400Hz
						Sweep Rate		1.2 min / single-sweep
						Acceleration		30G (294m/s2)
						Vibration axis		X , Y , Z

* At 23±5°C (Initial Performance Data)

** Custom connector. If necessary, Please use the extension cord sold from Futaba.

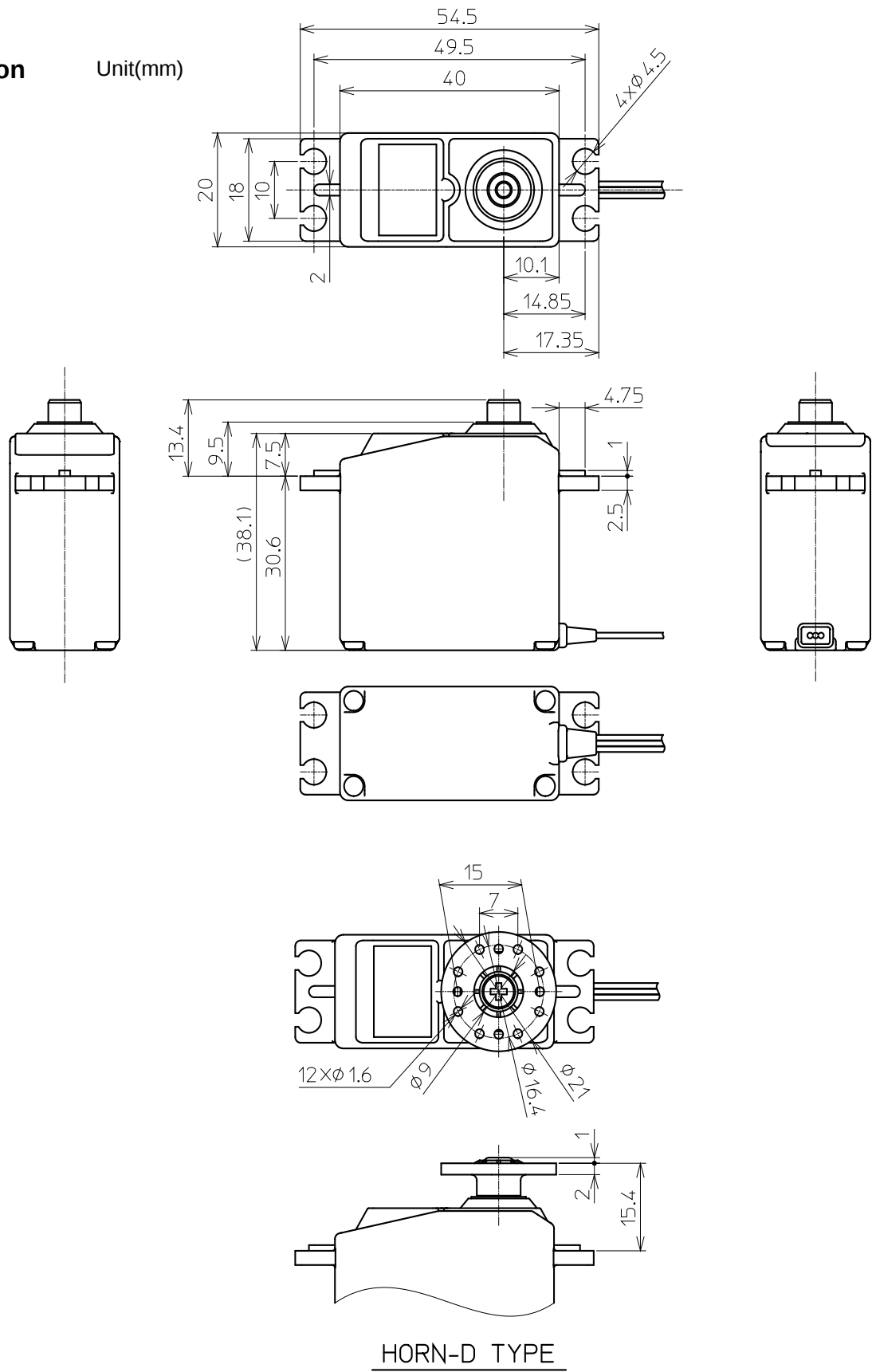
All Specifications are subject to change without prior notice.

Caution

• This product SHOULD NOT been used for the devices that is directly related to human life.

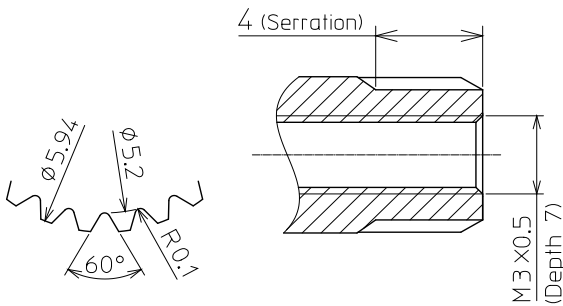
Outer Dimension

Unit(mm)



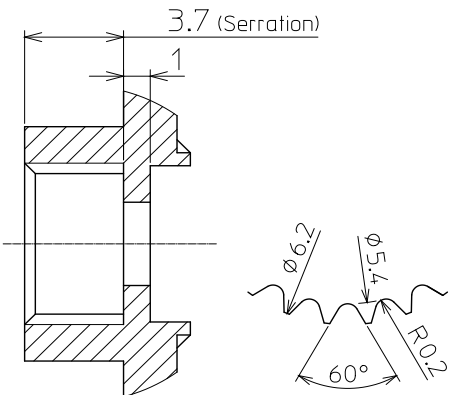
OUTPUT SHAFT

Unit(mm)



SERVO HORN

Unit(mm)



Sarretion Size

Standard Diameter : Ø6
Standard Length : 4mm
Angle : 60°
Tooth : 25