

# GENERAL SPECIFICATION OF DB777WP BLDC & WATERPROOF SERVO

Control System	PWM (Pulse Width Modulation)	Left = 900usec	Neutral = 1500usec	Right = 2100usec
	TTL Level Multi Drop Bus	Half duplex Asynchronous Serial Communication (8bit,1stop, No Parity)		
		9600 bps ~ 4.5 Mbps		
		Baud-Rate : 9600 bps ~ 4.5 Mbps		
		ID : 1 ~ 254		
Operating Voltage Range	6.0 V ~ 7.4V			
Motor Type	BLDC			
Input Signal	+5.0V			
MCU	32Bits			
Potentiometer	Contacted encoder			
Test Voltage	-	At 6.0V		At 7.4V
No Load Speed	-	0.08sec/60° (750°/sec) (125RPM)		0.06sec/60° (1000°/sec) (166.6RPM)
Stall Torque	-	8.0kg-cm (226.8oz.in)		11.0kg-cm (291.63oz.in)
Stand By Current	-	35mA		40mA
No load Running current	-	250mA		350mA
Stall Current	-	3500mA		4500mA
Dead Band Width	-	1usec		1usec
Operating Travel	Default	±40°		1100 ~ 1900usec
		±60°		900 ~ 2100usec
	Programmable	±90°		600 ~ 2400usec
Connector Wire Spec	300mm(11.81in) /20AWG /Yellow : Signal			
Outline Dimensions	41.0 x 21.0 x 26.5mm (±0.2mm) (1.61 x 0.826 x 1.043 in)			
Weight	68g (23.98oz) (±5%)			
Ball Bearing	Dual Ball Bearing /MR148			
Case & Gear Material	Full Aluminume Case & Full Metal Gear			
Operating Temperature Range	-20°C ~ +70°C (-4°F ~ +158°F)			
Storage Temperature Range	-30°C ~ +80°C (-31°F ~ +176°F)			
Gear train Backlash	Max 0.5°			
Horn Gear Spline	H25T (25 Segment Ø6.0)			
Dust & Water Protect Class	IP67			
Vibrations At No Load	MIL-STD-810G 514.6C-VII			
Applications	RC > Offload 1/8 & Surface 1/8 GP Buggy Industry > Robot & UAV			

