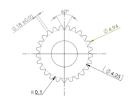


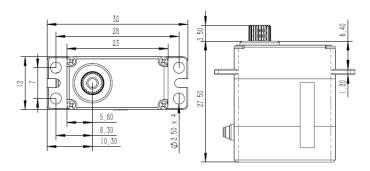
## KST DIGITAL TECHNOLOGY LIMITED

## **DS215MG V8.0 Technical Specification**





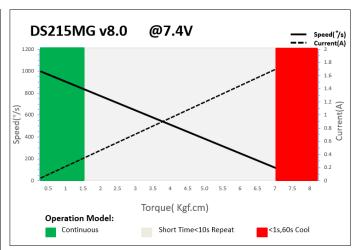
25T-5mm Output Shaft Spline



### 1. Operating Data

DS215MG V8.0		
Rated Voltage	DC7.4V	
Voltage Range	DC6.0V-8.4V	
0 0	3.1Kgf.cm@6.0V	
Torque	3.7Kgf.cm@7.4V	
	4.0Kgf.cm@8.4V	
Speed	0.060sec/60°@6.0V	
	0.055sec/60°@7.4V	
	0.050sec/60°@8.4V	
Working Frequency	1520us/333Hz	
Default Travel Angle	±70° = 140° Total	
Temperature Range	-10℃+65℃	
Soft Start	Programable	
Programable	Yes	
Case Material	Aluminum Alloy	
Motor Type	Coreless DC Motor	
Gear Set Material	Hardened Steel	
Position Sensor	Potentiometer	
Ball Bearing	2BB	
Case Dimensions	23mm*12mm*27.5mm±0.2mm	
Weight	20g±10%	

#### 2. Performance



# 3. Command signal PWM Command Interface

Signal Voltage	HIGH: min.3.3V, max.5.0V Low: min.0.0V, max.1.5V
Pulse Lengths	800us-2200us
Pulse Lengths for Position -50°/ 0°/+50°	1000us/1500us/2000us

#### 4. Electrical Connection

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Pin Assignment				
1	Orange	Signal	PWM Command	
2	Red	DC+	Supply Voltage	
3	Brown	DC-	Supply Ground	