Shenzhen XQPOWER Technology Co., LTD

XQ-POWER

Product Inspection Specification

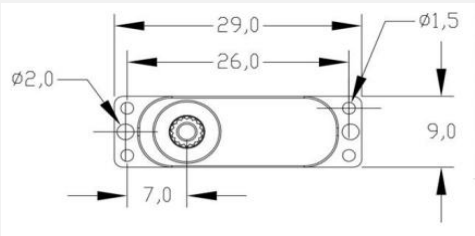
DOCUMENT NO	N/D.2013.2.28
VER	X1_1009.02
Page.	P.1
Prepare Date	20130305

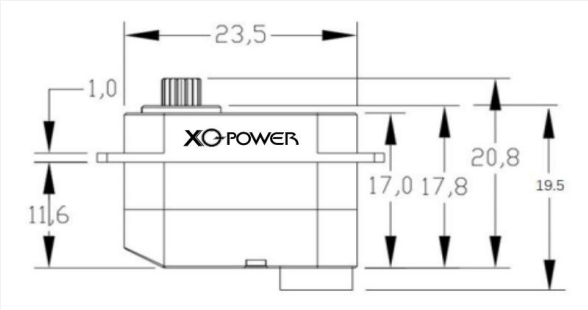
GSN	XQ-1S	Product Name	XQ-POWER 7.4V3kg-cm Micro Digital Servo	Model	XQ-S1009D	Material	CNC all-metal case

Process flow

CNC / industry testing torque

SIZE OF THE DRAWINGS





The Drawings

Photos1



Photos2



Control Specifications		
NO.	Standard Test Environment	
1-1	Temperature range	25℃±5℃
1-2	Humidity range	65%±10%
NO.	Apply Environmental Condition	
2-1	Storage Temperature Range	-20℃ ~ 70℃
2-2	Operating Temperature Range	-15℃ ~ 65℃
NO.	Mechanical Specification	
3-1	Servo Dimensions	23.5*9*19.5 mm
3-2	Servo Weight	7.7g
3-3	Servo Gear	Aluminium
3-4	Angle of limit	360°
3-5	Servo Bearing	2 Ball bearings
3-6	Output force shaft	15T-φ3.85mm
3-7	Servo arm	Plastic, POM
3-8	Case Material	Aluminium CNC
3-9	Servo line	145mm±5mm
3-10	Built-in motor	Coreless motor
3-11	Splash water resistance	Yes
Electrical Specification		
NO.	Test Operating Voltage Range	
4-1	Work Voltage	**6.0 V**
4-2	No load speed	0.09 sec/60°
4-3	Runnig current (no load)	150 mA
4-4	Peak stall torque	2.5 kg.cm
4-5	Stall current	0.8 A
	Work Voltage	**7.4 V**
4-6	No load speed	0.07 sec/60°
4-7	Runnig current (no load)	200 mA
4-8	Peak stall torque	3.0 kg.cm
4-9	Stall current	1.2 A
	Work Voltage	
4-10	No load speed	
4-11	Runnig current (no load)	
4-12	Peak stall torque	
4-13	Stall current	

AQL

Make table	CHECK	APPROVE
MR.ZHONG	MR.LIU	Manager.ZHOU

Shenzhen XQPOWER Technology Co., LTD

Product Inspection Specification

DOCUMENT NO	N/D.2013.2.28
VER	X1_1009.02
Page.	P.2
Prepare Date	20130305

GSN	XQ-1S	Product Name	XQ-POWER 7.4V3kg-cm Micro Digital Servo	Model	XQ-S1009D	Material	CNC all-metal case

Control Specification

Test display diagram

Photos1

Accessories

Photos1



Reference opinions of all departments: Agree

EMPHASIS

NO.	Item	Specification
5-1	Command signal	PWM
5-2	Amplifier type	Digital Controller
5-3	Pulse width range	500～2500 μsec
5-4	Neutral position	1500 μsec
5-5	Running degree	360° (when1000～2000μsec)customizable
5-6	Dead band width	2 μsec
5-7	Rotating direction	CCW (when1000～2000 μsec)

Appearance inspection	
NO.	QC details
5-7	Material qualified
5-8	Gear structure qualified
5-9	Function qualified
5-10	Use data qualified
5-11	Pass the test

NO.	Other
6-1	
6-2	
6-3	
6-4	

Other Accessories	
7-1	Plastic arm bag
7-2	Screw
7-3	Metal arm (additional purchase)



AQL

Make table	CHECK	APPROVE
MR.ZHONG	MR.LIU	Manager.ZHOU