$1. \ Apply \ Environmental \ Condition:$

No.	Item	Specification	
1-1	Storage Temperature Range	-20℃ ~60℃	
1-2	Operating Temperature Range	-10℃~50℃	
1-3	Operating Voltage Range	4.0V~6.0V	

2. Standard Test Environment:

2-1	Standard Test Environment	Every characteristic of the inspect must be normal temperature and humidity carry out the test , temperature 25±5°C and relative humidity 65±10% of judgment made in accordance with this specification standard testing conditions.
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3. Appearance Inspection:

No.	Item	Specification	
3-1	Outline Drawing	Dimension see the last page	
3-2	Appearance	No damage which affects functions allowed	



Product Name	Model No.	Version
DIGITAL SERVO	HD-1810MG	V1

Page

1/3

4. Electrical Specification (Function of the Performance):

No.	Item	•	4.8V	6.0V	
4-1	Operating speed (at no load)	0.16	sec/60°	0.13	sec/60°
4-2	Running current (at no load)	180	mA	240	mA
4-3	Stall torque (at locked)	3.1	kg-cm	3.9	kg-cm
4-4	Stall current (at locked)	1200	mA	1400	mA
4-5	Idle current (at stopped)	5	mA	5	mA

Note: Item 4-2 definition is average value when the servo running with no load

5. Mechanical Specification:

No.	Item	Specification
5-1	Overall Dimensions	See the drawing
5-2	Limit angle	220°±10°
5-3	Weight	15.8 ± 0.2 grams (without servo horn)
5-4	Connector wire gauge	#26 AWG
5-5	Connector wire length	250 ±5 mm
5-6	Horn gear spline	$21T/ \phi 4.97$
5-7	Horn type	Cross , Big cross , Disk , Flat
5-8	Reduction ratio	1/383

Power
HIGH PERFORMANCE

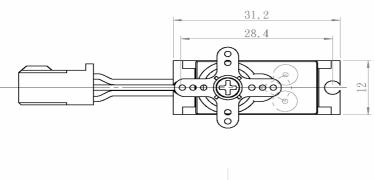
Product Name	
DIGITAL	SERVO

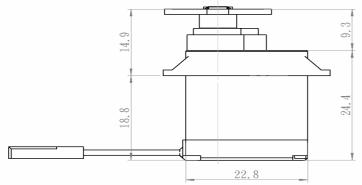
Model No.
HD-1810MG

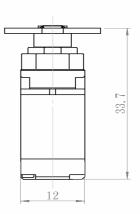
Version	Pag

$\textbf{6.} Control \ Specification:}$

No.	Item	Specification
6-1	Control system	Pulse width modification
6-2	Amplifier type	Digital controller
6-3	Operating travel	45° (when1500→2000 μ sec)
6-4	Neutral position	1500 μ sec
6-5	Dead band width	5 μ sec
6-6	Rotating direction	Clockwise (when1500→2000 μ sec)
6-7	Pulse width range	750→2250 μ sec
6-8	Maximum travel	Approx 145°(when750→2250 μ sec)







UNIT: MILLIMETERS

Page



Product Name	Pr
DIGITAL SERVO	

Model No.
HD-1810MG

Version	
V1	