1. Apply Environmental Condition :

No.	Item	Specification	
1-1	Storage Temperature Range	-20°C∼60°C	
1-2	Operating Temperature Range	-10°C∼50°C	
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.
-------------------------------	---

3. Appearance Inspection :

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

Dowor	Product Name	Model No.	Version	Page
	DIGITAL SERVO	HD-1810MG	V1	1/3

4. Electrical Specification (Function of the Performance):

No.	Item	4.8V 6.		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

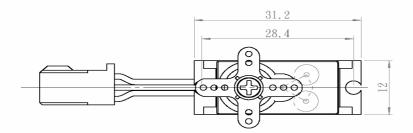
5.Mechanical Specification:

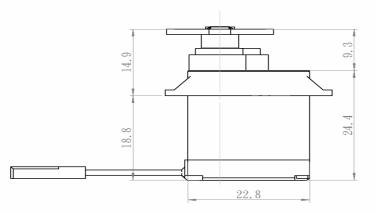
No.	Item	Specification		
5-1	Overall Dimensions	See the drawing		
5-2	Limit angle	220°±10°		
5-3	Weight	15.8 ± 0.2 grams (without servo horn)		
5-4	Connector wire gauge	#26 AWG		
5-5	Connector wire length	250 ±5 mm		
5-6	Horn gear spline	21T/		
5-7	Horn type	Cross , Big cross , Disk , Flat		
5-8	Reduction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



6.Control Specification :

No.	Item	Specification	
6-1	Control system	Pulse width modification	
6-2	Amplifier type	Digital controller	
6-3	Operating travel	45° (when 1500 \rightarrow 2000 μ sec)	
6-4	Neutral position	1500 μ sec	
6-5	Dead band width	5 μ sec	
6-6	Rotating direction	Clockwise (when 1500 \rightarrow 2000 μ sec)	
6-7	Pulse width range	750→2250 μ sec	
6-8	Maximum travel	Approx $145^{\circ}(\text{when }750 \rightarrow 2250 \ \mu \text{ sec})$	









Product Name	Model No.	Version	Page
DIGITAL SERVO	HD-1810MG	V1	3/3

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for AC, DC & Servo Motors category:

Click to view products by Pololu manufacturer:

Other Similar products are found below :

805470B40040MY
R88M-G10030H-S2
R88MK15K015CS2
R88MK1K520HS2
R88MK3K030FBS2
R88MK1K530HBS2

R88MK75030TS2
1032
M4E068-CF01-01
80510503
805470A403.6MY
805470B40020MY
80627003
82800003
82830009

R88MK2K030FS2
KDE4014XF-380 (D5)
R88A-RG08UA
82810017
82861019
89850008
R88M-K75030H
R88M-G10030L-OS2
R88M

GP20030L-OS2
R88M-K90010F-S2
R88M-GP40030L-OS2
R88M-K1K030H-S2
R88M-GP20030H-BO
R88M-G10030L-BO
R88M

GP20030S-OS2
R88M-K20030H-B
R88M-G40030H-BS2
R88M-GP20030H-O
R88M-G40030T-S2
R88M-K10030L
82840003
82840004

R88M-GP20030L
R88M-GP20030H-BS2
R88M-GP10030S
R88M-GP20030L-S2
R88M-G40030H-BS2
R88M-GP20030L-OS2
R88M-GP20030