# PRODUCT SPECIFICATION

# A20CHM V2

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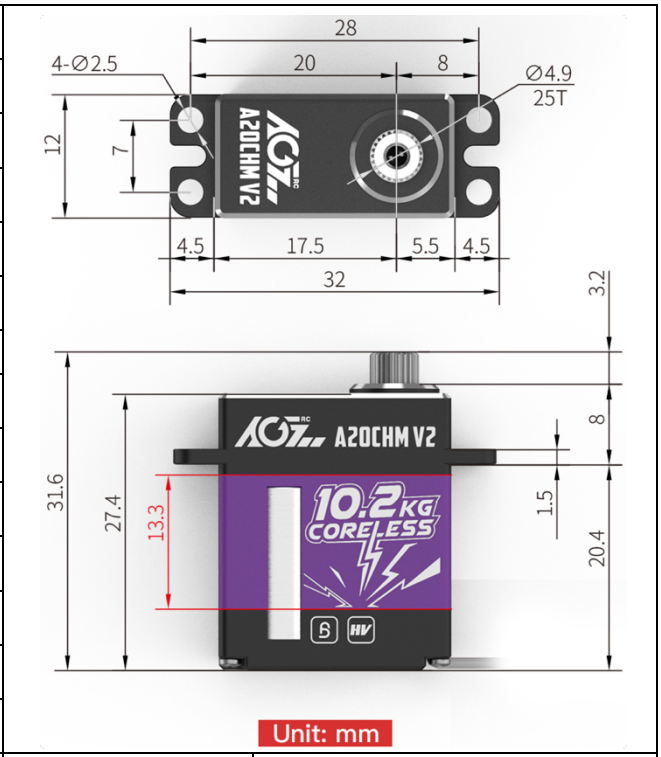
|---|---|
| **Control System** | Pulse width modulation control |
| **Refresh Rate** | 333Hz |
| **Neutral Position** | 1520μS |
| **Signal Mode** | Digital |
| **Dead band** | 2 μSec |
| **Operating Voltage** | 4.8 ~ 8.4V |
| **Operating Temperature** | -15C° ~ +70C° |
| **Bearing** | Double Ball Bearings |
| **Mechanical Angle** | No Limit |
| **Size** | 23*12*27.5mm |
| **Net Weight** | 21g |
| **Wire** | TYU 180mm / 26AWG |
| **Operating Travel** | 180°±10° |
| **Signal Range** | 500 to 2500 μSec |



Unit: mm

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| **Stall Torque** | 6.8 kg-cm (76 oz-in) @ 4.8V<br>7.5 kg-cm (87 oz-in) @ 6.0V<br>8.8 kg-cm (97 oz-in) @ 7.4V<br>10.2 kg-cm (111 oz-in) @ 8.4V | **Unload Current** | 150mA @ 4.8V<br>180mA @ 6.0V<br>210mA @ 7.4V<br>250mA @ 8.4V |
| **Operating Speed** | 0.155sec/ 60° @ 4.8V<br>0.132sec/60° @ 6.0V<br>0.105sec/60° @ 7.4V<br>0.093sec/60° @ 8.4V | **Loading Current** | 1600mA @ 4.8V<br>1800mA @ 6.0V<br>2000mA @ 7.4V<br>2200mA @ 8.4V |

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| **Direction** | ☑CCW | ☐CW | | |
| **Waterproof Level** | ☐IP65 | ☐IP67 | | |
| **Angle Sensor** | ☑Potentiometer | ☐Magnet Angle Sensor | | |
| **Motor Type** | ☐Brushless | ☑Coreless | ☐DC | |
| **Motor Drive** | ☐FET Drive | ☑IC Drive | ☐Transistor Drive | |
| **Programmable** | ☑Yes | ☐No | | |
| **Gear Material** | ☑Strength Steel | ☐Titanium | ☐Copper | ☐Plastic |
| **Horn Gear Spline** | ☐25T-φ5.92mm | ☑25T-φ4.94mm | ☐Other _____ | |
| **Case Material** | ☑ AL6061T6 | ☐Aluminum + Plastic | ☐Plastic | |
| **Bearing Material** | ☑ Metal | ☐Plastic | | |
| **Horn Accessories** | ☐AL6061T6 | ☑Plastic | | |
| **Wire Color** | Negative: ☑Black ☐Brown<br>Positive: ☐Black ☑Red<br>Signal: ☐Grey ☑White ☐Orange | | | |