

## Global Leader

NEA® Electronics, Inc. is a global leader in spacecraft mechanisms. Our low shock release devices are relied upon for spaceflight applications more than any other device.

## Reliable

Our designs are reliable, simple, insensitive to adverse environments and backed up by years of heritage and loyal customers.

## Quality Assured

NEA, a trusted supplier of mission critical components, is certified to ISO 9001:2008 and AS9100:2009 C

# NEA Model G3<sup>5</sup> Gimbal

## Model G3<sup>5</sup> Gimbal Product Data Sheet

NEA's G3<sup>5</sup> Gimbal is designed to fit the mechanical interface requirements of a large number of existing and future applications while providing superior performance.

### Advantages

- Very fine step size option  $\sim 0.0024^\circ$
- Four Flexible Standard Configurations
- Integrated active thermal control

### Two Step Angle Options

NEA pointing mechanisms are available with either a  $0.0075^\circ$  output step angle and or a  $\sim 0.0024^\circ$  for very fine positioning and low torque disturbance without the need for microstepping. Eliminating the need for microstepping reduces power consumption.

### Four Configurations

The NEA G3<sup>5</sup> Gimbal is available in four different configurations that support both normal and fine step angles as well as 3-phase and 4-phase winding configurations.

### Integrated Active Thermal Control

Integrated redundant heaters and thermistors located in close proximity to the input bearings conserve power and support extended temperature range operation.



## Design Features

Additional design features include:

- Modular Telemetry Options
- Electrically Redundant
- Custom Adjustable Stops and Travel Ranges
- Multi-pass Labyrinth Seals at Dynamic Interfaces
- Optional Twist Capsules & Rotary Coaxial Joints

# NEA Model G3<sup>5</sup> Gimbal



**RIGHT FOR YOUR MISSION**

## Model G3<sup>5</sup> Gimbal Technical Specifications

Refer to the P3<sup>5</sup> Pointing Mechanism Actuator data sheet for technical specifications per axis. Combined gimbal technical specifications are dependent upon customer interface requirements. Please contact NEA applications engineers for specific gimbal requirements.

## Series G3<sup>5</sup> Gimbal Mechanical Interface Drawing

Refer to P3<sup>5</sup> Pointing Mechanism Actuator data sheet for mechanical interface data. Specific gimbal geometries are dependent on customer specific requirements. Please contact NEA applications engineers for specific gimbal applications and interface requirements.

## Mission Success

NEA<sup>®</sup> Electronics, Inc. is dedicated to building mankind's legacy in space by supporting our customers in the aerospace industry through on time delivery of innovative products that exceed expectations and assure mission success.

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Cleared for Open Publication by the Office of Security Review, Department of Defense 04/24/2014 14-S-1253

