

Componetics, Inc. Frameless Motors

General Description

Componetics, Inc has the ability to provide frameless motors for aerospace applications. Through an exclusive arrangement with Componetics Incorporated, your company is able to offer these high quality components to the aerospace community.

Componetics Inc. has been a quality supplier of high reliability precision motor components and motor windings to the spaceflight and aerospace communities for a variety of applications with over 29 years of heritage experience. Componetics motor components have been supplied for high visibility spaceflight programs including; Mars Pathfinder, Shuttle Radar Topography Mapper, Genesis Mission, and the Viking program as well as aerospace applications such as the; F-117 Stealth Fighter, B-2 Stealth Bomber, F-22 Raptor and Tomahawk Cruise Missile.

Sample Applications

- Antenna Pointing Mechanisms
- Camera Pointing Mechanisms
- Solar Array Drives
- Robotics Applications
- Deployment Mechanisms
- Rover Wheel & Steering Mechanisms
- Aircraft Control Surfaces
- Missile Fin Actuators
- Fuel Pumps

Any Aerospace motor can be supplied manufactured to customer prints or specifications. Build to print motors are manufactured to customer drawings using approved processes. Build to spec motors are manufactured to meet your customer performance requirements and then manufactured using flight proven customer approved processes.

Your custom designed motors are fabricated using high performance alloys for maximum performance and minimum weight. Typical motors feature vanadium-cobalt-steel laminations and neodymium-iron-boron magnets. For high temperature applications samarium-cobalt magnets are also available. Depending on the particular application stator cores can be fabricated from stamped laminations, Laser Cut,



Redundant Inside Out Motor Stator with Skewed Slots
wire EDM'd from bonded lamination stacks or manufactured from solid cores.

Motor windings can be provided using SML or HML wires in non-redundant or redundant configurations. All soldering is performed by J-STD-001. Motors can be wound in either two or three phase configurations.

Stator Applications

- Brushless DC Motors
- Permanent Magnet Stepper Motors
- Hybrid Stepper Motors
- Brush Motors

With special arrangement your company will have the ability to supply many different motor types including but not limited to; brushless DC motors, permanent magnet stepper motors, hybrid stepper motors and brush motors. In addition to being able to supply many different styles of motors each motor can be provided with your additional features.



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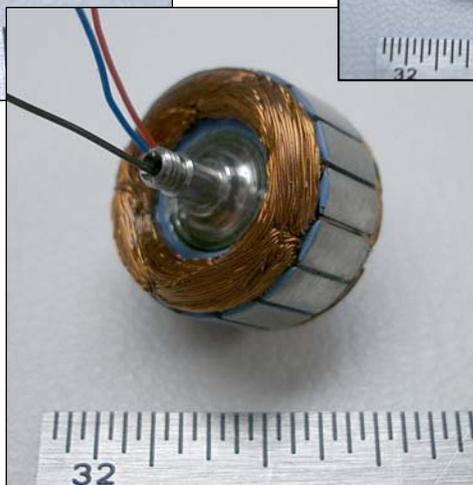
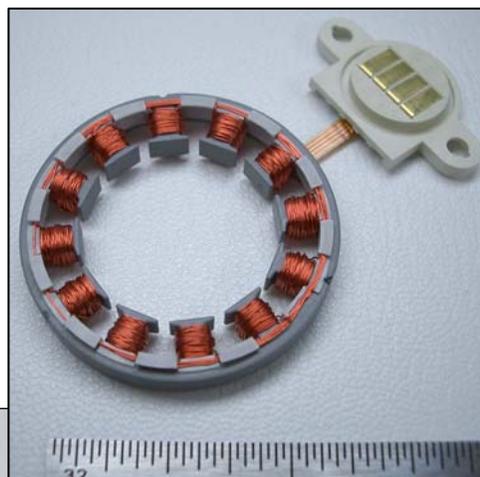
2492 Turquoise Circle, Newbury Park, CA 91320USA • voice: 805-498-0939 • fax: 805-499-8677 • www.componeticsinc.com

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Your motor design can be manufactured with the best materials in the industry backed up by the American industries. Contact Componetics, Inc. for a quote, or e-Mail to sales@componeticsinc.com

Optional Features

- Two or Three Phase Windings
- Redundant Windings
- Neodymium-Iron-Boron or Samarium-Cobalt Magnets
- SML or HML Magnet Wire
- Electrostatic Insulation or High Temperature Paper Insulation
- Standard or Inside-Out Motor Configurations
- High Detent Straight Slot or Low Detent Skewed Slot Configurations
- Embedded Thermistors
- Laminated Cores



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