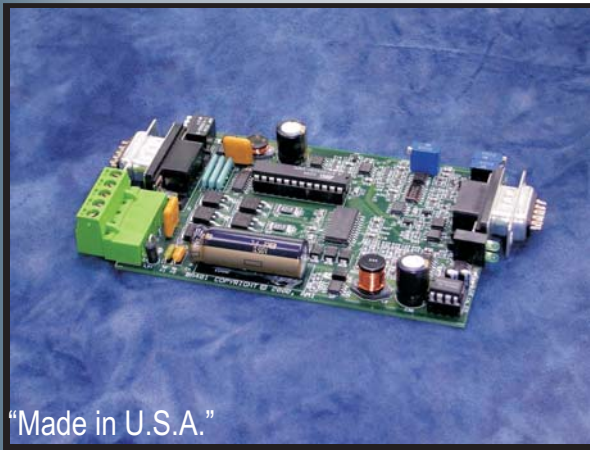


introduction



The *BA481* is a PWM current mode servo amplifier designed to drive brushed or brushless DC motors or voice coil actuators. Control is provided via an analog input signal of 0 to ± 10 VDC corresponding to a constant commanded output current of 0 to ± 8 Amps.

Model *BA481* Amplifier

features

- **Description** DC Brushless PWM Servo Amplifier
- **Operating Mode** Current Mode
- **DC Supply Voltage** 12 - 48 VDC
- **Output Current**..... ± 4 Amps Continuous, ± 8 Amps Peak
- **Nominal Input Voltage Range**. 0 to ± 10 Volts
- **Maximum Input Voltage**..... ± 15 Volts
- **Input Impedance** Approx. 25K Ohms
- **Quiescent Current** Approx. 80 mA at 24 VDC
- **Enable Input Current** Approx. 2 mA
- **Status Output Sat. Voltage** Approx. 0.8 V at 8 mA
- **Maximum Input / Output Gain**. Approx. 0.8 Amps / Volt
- **PWM Frequency** Approx. 52 KHz
- **Output Phase Shift** Approx. 43° with 2 KHz Sine Wave Input (330 uH Load)
- **Inputs** Analog Command (± 10 V Max.), Inhibit (+5 V Max.)
- **Output** Status
- **Hall Sensor Input** Single-ended or Differential
- **Hall Supply Voltage** 5 VDC
- **Hall Input Voltage** 5.5 VDC Max., -0.1 VDC Min.
- **Operating Temp. Range** 0° C to 50° C
- **Storage Temp. Range** -40° C to 70° C
- **Dimensions** 5.0" L x 3.3" W x 1.1" H (not including mounting tabs)
- **Weight**..... Approx. 10 oz
- **Enclosure**..... Rugged Powder Coated Aluminum Extrusion

www.automationmodules.com

Tel: (800) 585-3631

Fax: (253) 549-4866

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