



FEATURES

- Bipolar Step Motor Driver
- Operates from +24 to 80 VDC
- Phase Current Ranges from 1 to 7 Amps or 0.3 to 2 Amps
- 10x Microstepping Driver
- Optically Isolated Step, Direction, and Disable/Enable Inputs
- Selectable Current Reduction of 33%
- Low Power Dissipation
- Step Frequency of 200 kHz
- Efficient Current Control
- Power-On Indicator
- Power Disable/Enable Control
- Sinusoidal Current Waveform
- Low Cost Driver

R710 - includes a built-in Step Pulse Multiplier board

The R710 has the same features as the R701 plus two additional features:

• Input Option Header:

Allows the use of a Common Ground or a Common +5VDC for optically isolated inputs

• Step Pulse Multiplier:

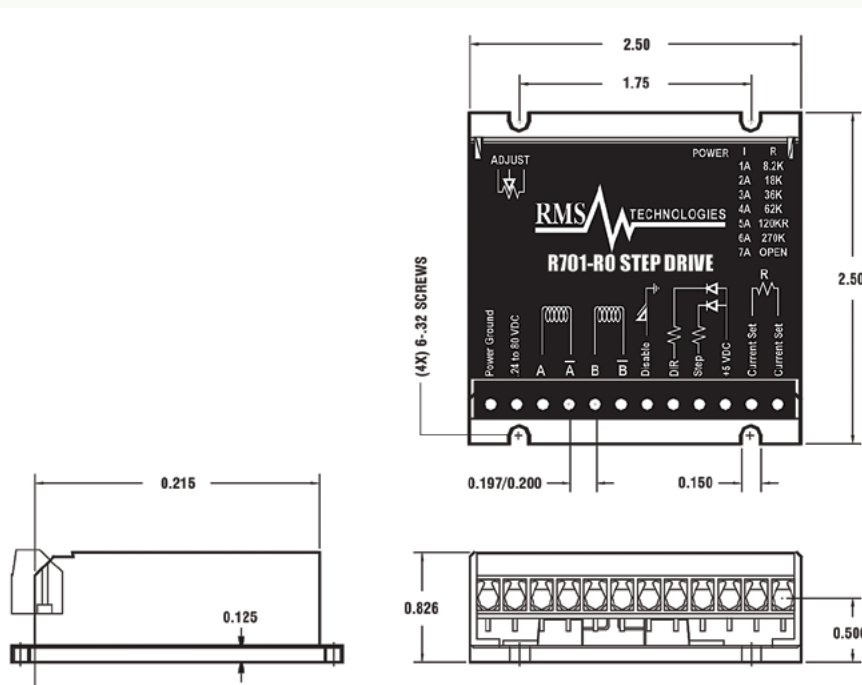
The R701 will always output 10 microstepping, even with a step input of Full Step, Half Step, 5 Microstep, or 10 Microstep. The user no longer needs to change their original setup to get microstepping. Simply select the desired step multiplier of 1, 2, 5 or 10; to achieve the 10 microstepping output from the driver, while maintaining the rotational speed that you had in your original setup.



SPECIFICATIONS

- **INPUT VOLTAGE:**
+24 to 80 VDC
- **DRIVE CURRENT(PER PHASE):**
0.3 to 2.0 Amps or 1 to 7 Amps
- **ISOLATED INPUTS:**
Step Clock, Direction, Disable
- **STEP FREQUENCY (MAX):**
200 kHz
- **STEPS PER REVOLUTION (1.8° MOTOR):**
2000
- **MICROSTEP RESOLUTIONS (1.8° MOTOR):**
10x

DIMENSIONS





FEATURES

- Input Voltage of +12 to 40 VDC
- Phase Current Ranges from 0.3 to 2.0 Amps Peak
- Microstepping Capabilities of Full, 2x, 4x, 8x, 16x, 32x, 64x, 128x, and 256x
- 2 User Configurable Digital I/O's
- 2 Dedicated Inputs:
 - * 1 Optical Sensor for Homing
 - * 1 Switch Closure to Ground
- Fully Programmable Ramps and Speeds
- Software Selectable Hold and Run Currents
- Stand Alone Operation with No Connection to PC
- Stores up to 16 Different Programs at Once with 4 kBytes of Memory
- RS485 Communication with Optional Converter Cards

Converter Cards Available

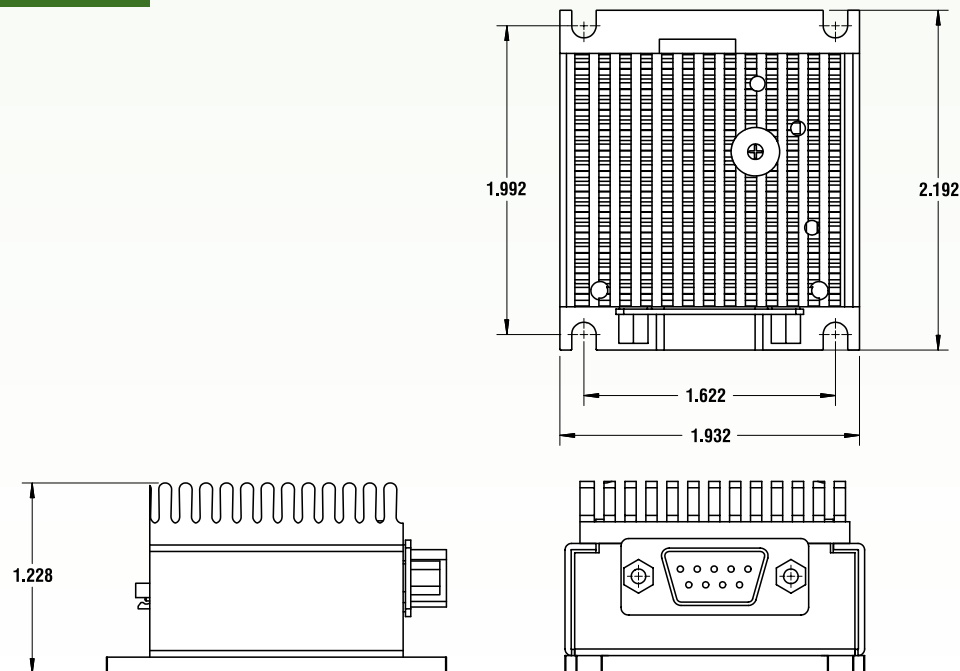
- USB485 - see page 110
- RS232 to RS485 - see page 109



SPECIFICATIONS

- **INPUT VOLTAGE:**
+12 to 40 VDC
- **DRIVE CURRENT (PER PHASE):**
0.3 to 2.0 Amps Peak
- **ISOLATED INPUTS:**
I/O, Switch Closure Ground, Opto Phototransistor
- **STEPS PER REVOLUTION (1.8° MOTOR):**
200, 400, 800, 1600, 3200, 6400, 12800, 25600, 51200
- **MICROSTEP RESOLUTIONS (1.8° MOTOR):**
Full, 2x, 4x, 8x, 16x, 32x, 64x, 128x, 256x

DIMENSIONS



FEATURES

- Input Voltage of +12 to 40 VDC
- Phase Current Ranges from 0.3 to 3.0 Amps Peak
- Microstepping Capabilities of Full, 2x, 4x, 8x, 16x, 32x, 64x, 128x, and 256x
- 2 User Configurable Digital I/O's
- 2 Dedicated Inputs:
 - 1 Optical Sensor for Homing
 - 1 Switch Closure to Ground
- Fully Programmable Ramps and Speeds
- Software Selectable Hold and Move Currents
- Stand Alone Operation with No Connection to PC
- Stores up to 16 Different Programs at Once with 4 kBytes of Memory
- RS485 Communication with Optional Converter Cards

Converter Cards Available

- USB485 - see page 110
- RS232 to RS485 - see page 109



SPECIFICATIONS

- **INPUT VOLTAGE:**
+12 to 40 VDC
- **DRIVE CURRENT (PER PHASE):**
0.3 to 3.0 Amps Peak
- **ISOLATED INPUTS:**
4 I/O's, Switch Closure to Ground, Opto Phototransistor
- **STEPS PER REVOLUTION (1.8° MOTOR):**
200, 400, 800, 1600, 3200, 6400, 12800, 25600, 51200
- **MICROSTEP RESOLUTIONS (1.8° MOTOR):**
Full, 2x, 4x, 8x, 16x, 32x, 64x, 128x, 256x

DIMENSIONS

