
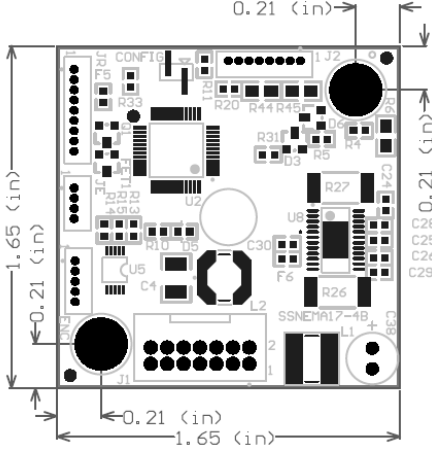


Single Axis NEMA 17 Microstepping Controller (SSNEMA17-4x) (Low Current)



Mating connectors not Included

Dimensions:



1.65" x 1.65" x 0.6"
41.91mm x 41.91mm x 15.24mm

Specifications

	Minimum	Maximum
RoHS Compliant	Yes	
Total Motor Axis/Board:	1	
Motor Driver Type (per axis):	Bipolar Stepper Driver	
Motor Driver Stepping Range (per axis):	Full, 1/2, 1/4, 1/8, 1/16, 1/32	
Motor Stepping Speeds (per axis):	1 sps	30,000 sps
Motor Stepping Prescaler (per axis):	Yes (1 (default) to 255) (prescaler=255=0.003922 sps)	
Motor Idle Power Modes (per axis):	OFF to Maximum Setting	
Maximum Current Control Setting (per axis):	Software Controlled Single 8 bit DAC	
Driver Current Decay Control (per axis)	Yes	
Driver Phase Short Circuit Protection:	Yes	
Driver Thermal Shutdown Protection:	Yes	
Driver Junction Temperature (Thermal Shutdown):	-	+165 degrees C (+329 degrees F)
Motor Current Limits (per axis)		
Running:	0.100 amps/phase	1.50 amps/phase
Idle:	0.00 amps/phase	To maximum setting
Operating Voltages:	15.0VDC	50.0VDC
Ambient Temperature Range		
Operating:	0 degrees C (32 degrees F)	+70 degrees C (158 degrees F)
Storage:	-40 degrees C (-40 degrees F)	+125 degrees C (257 degrees F)
Maximum Controller Boards on One (1) Serial Line	16 (up to 255 if 2-digit address is used)	
Communications:	RS422 or RS485	
Communication Baudrates:	9600, 19200, 38400, 57600 (default), 115200, 230400, 460800	
Home Sensor Input (per axis):	Infrared (Current Limited to 25ma) Sensor Input	
Limit Sensor Input (per axis):	Infrared (Current Limited to 25ma) Sensor Input	
Dedicated User Input Lines (per axis):	2-Input with on board 22K pull-up, 0-5.0VDC, 1-ADC 0-3.3VDC Input	
Dedicated User Output Lines (per axis):	1 - MOSFET 0.5 amp - OVDC to Board operating voltage Open Collector with NO diode clamp	
PWM Outputs (per axis):	1 - Open Collector MOSFET and 2 - TTL 0 to 3.3VDC PWM's	
ADC Inputs (per axis):	1 - (ANLGIN) 0 to 3.3VDC, 12-bit ADC	
Quadrature Encoder Interface (per axis):	Yes (Single ended only)	
Quadrature Encoder Maximum Frequency (per axis):	1.5MHz	
Quadrature Encoder Modes (per axis):	x1, x2 and x4	
Quadrature Encoder scaling (per axis):	Double Precision Floating Point	
PCB Flammability Rating:	UL 94V-0	

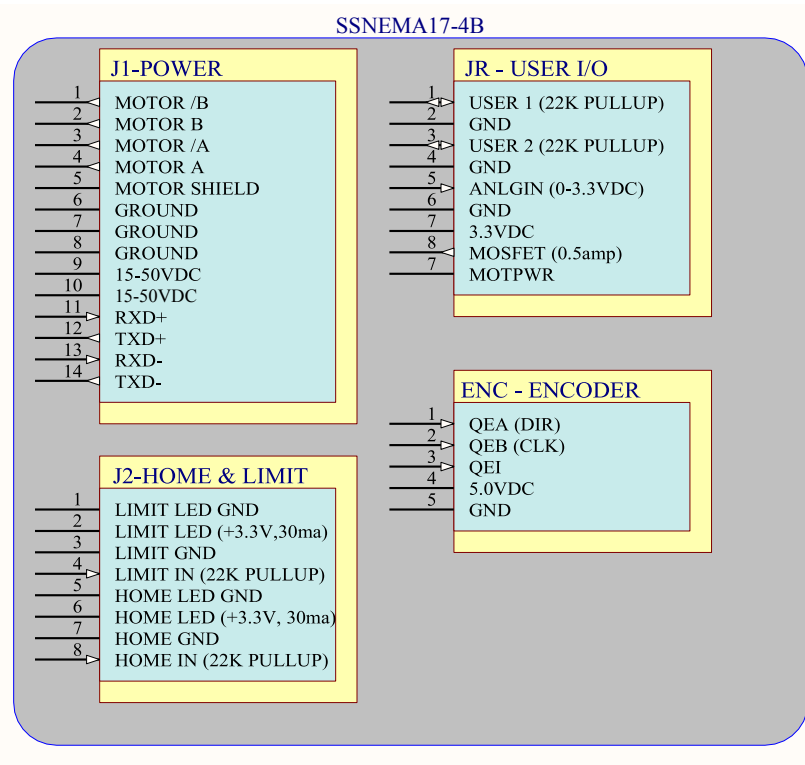


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Connector Name	Connector Type	Mating Connector P/N
J1	Molex iGrid	501646-1400
J2	Molex PicoBlade	51021-0800
JR	Molex PicoBlade	51021-0900
ENC	Molex PicoBlade	51021-0500

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