FUTEK MODEL QIA125

DRAWING NUMBER: FI1515-B

INCH [mm] | R.O.= Rated Output

QIA125, Three Channel Simultaneous Sampling System with SPI Output.

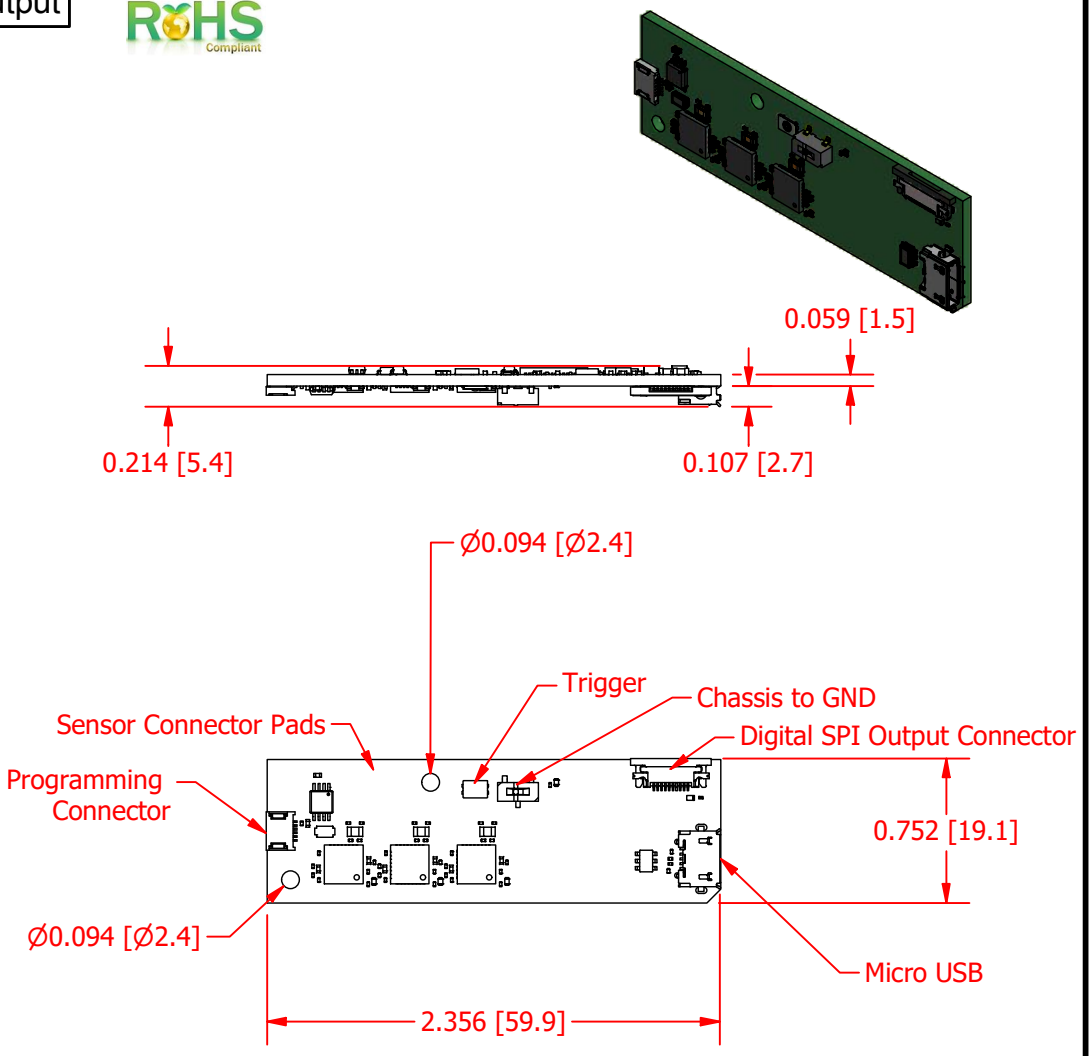
RoHS Compliant

Item #: QSH02040

Digital SPI Output Connector			
Pin	Code	Pin	Code
1	VIN	8	CS
2	GND	9	DRDY
3	GND	10	TRIG
4	GND		
5	MISO		
6	MOSI		
7	SCLK		

PROGRAMMING CONNECTOR	
Pin	Code
1	MCLR
2	3V3
3	GND
4	DAT
5	CLK
6	N/C

SENSOR CONNECTOR	
Pin	Code
1	+Excitation
2	+Signal CH03
3	-Signal CH03
4	+Signal CH02
5	-Signal CH02
6	+Signal CH01
7	-Signal CH01
8	-Excitation



SPECIFICATIONS:

Sensor Input:
- Excitation: 5VDC
- Bridge Resistance: 350Ω - 5000Ω per channel

Operating Temperature: -30°C to +80°C (-22°F to +176°F)

Power:
- Vin : 5VDC ± 10%
- Inrush Current: 700mA
- Power Consumption: 0.3W

Digital Output:
- Sampling: 5 SPS - 4800 SPS
- Noise Free Resolution: 18.1 bits - 12.7 bits
- Offset Error Drift: 5nV/°C
- Gain Error Drift: 1ppm /°C
- SPI Output:
  - Voltage: 3.3VDC
  - Clock Speed: 4MHz to 8MHz
  - Word Size: 8 bits
  - Stored Calibration: 12 points per channel
- USB Output (Compatible with FUTEK Software)
- Fault Detection Mode:
  - Short/Open circuit detection (For 1000Ω Bridge only)

FUTEK ADVANCED SENSOR TECHNOLOGY, INC.

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10 THOMAS
IRVINE, CA 92618 USA
+1 (949) 465-0900

INTERNET:
http://www.futek.com