

# FUTEK MODEL QIA128

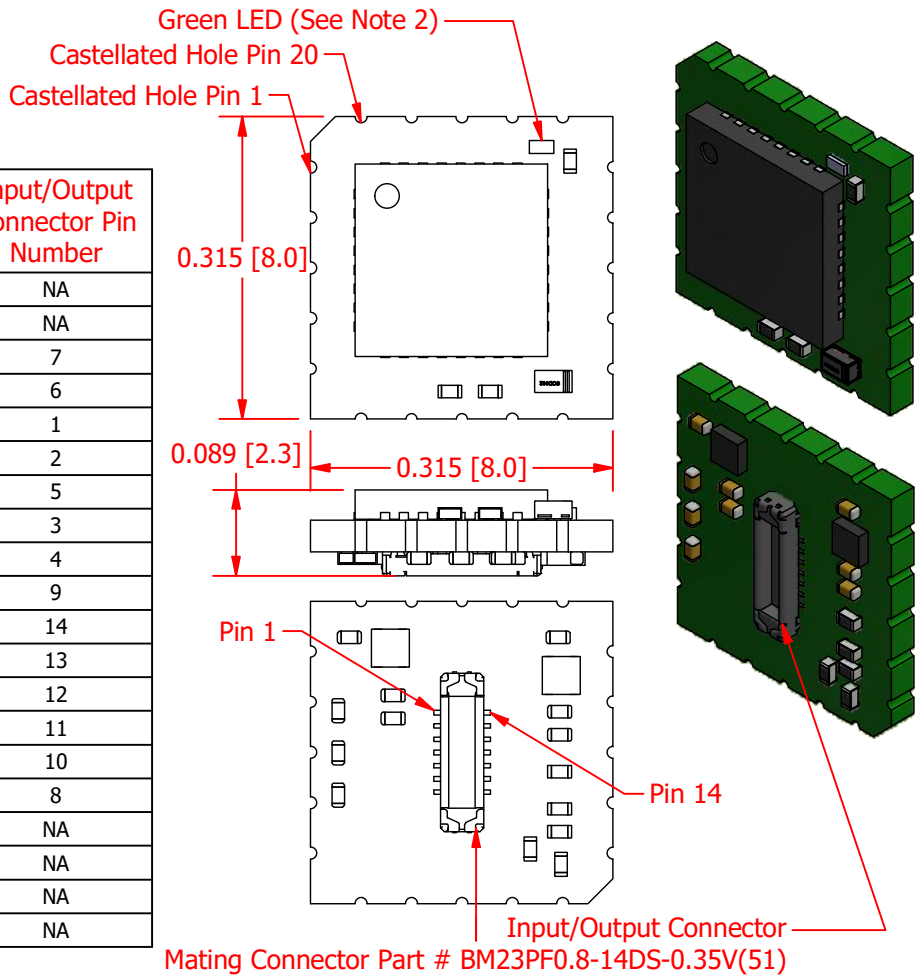
## Miniaturized Integrable Sampling System

DRAWING NUMBER: FI1519-A

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

Item #: QSH02084

	Castellated Hole Pin Number	Pin Function	Input/Output Connector Pin Number
JTAG	1	RESET	NA
	2	TMS	NA
UART	3	TX	7
	4	RX	6
SENSOR	5	GND	1
	6	-EXCITATION	2
	7	-SIGNAL	5
	8	+EXCITATION	3
	9	+SIGNAL	4
	10	VIN	9
SPI	11	CS	14
	12	SCLK	13
	13	MISO	12
	14	MOSI	11
	15	DRDY	10
JTAG	16	VDD	8
	17	NTRST	NA
	18	TDO	NA
	19	TDI	NA
	20	TCK	NA



Noise Free Resolution (See Note 1)									
Range (mV/V)	GAIN	4 SPS	20 SPS	50 SPS	100 SPS	200 SPS	500 SPS	850 SPS	1300 SPS
240-480	1	18.4	17.7	16.7	16.3	15.8	15.2	14.6	14.2
120-240	2	17.1	16.8	15.8	15.3	14.9	14.2	13.9	13.3
60-120	4	16.9	16.7	16.5	16.3	16.0	15.0	14.9	14.1
30-60	8	16.8	16.4	16.3	16.1	15.6	15.1	14.8	13.8
15-30	16	16.7	16.3	16.2	16.0	15.5	15.2	14.7	13.7
7.5-15	32	16.6	16.2	16.1	15.9	14.9	14.7	14.6	13.5
3.7-7.5	64	16.5	16.1	16.0	15.8	15.7	15.2	14.5	13.4
1.8-3.7	128	16.1	15.6	15.5	15.1	14.7	14.0	13.8	13.2
0.9-1.8	256	15.1	14.7	14.1	13.5	13.3	13.1	12.6	12.2
0-0.9	512	14.0	13.6	13.5	13.1	12.8	12.1	11.8	11.4

### Specifications:

#### Input:

- Type: Differential
- Excitation: 2.5 VDC
- Bridge Resistance: 350 Ω to 5000 Ω
- Input Range: Up to 480 mV/V

#### Power:

- 3 VDC to 5 VDC
  - 20-40mV peak-to-peak ripple in passband
  - 20MHz bandwidth (cutoff 40dB @ 20MHz)
- Power Consumption: 60 mW

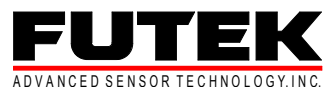
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#### SPI Output:

- Voltage: 1.8 VDC (compatible with 3.3 VDC) Operating Temperature: -40°F to 185°F (-40°C to 85°C)

Note 1: Noise Free Resolution is calculated using upper limit of 'Range(mV/V)' or 'maximum dynamic range'

Note 2: Solid green LED indicates normal operation mode



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