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# FUTEK MODEL QIA132

*Digitally Configurable Fully Differential Amplifier  
with Voltage Output*

DRAWING NUMBER: FI1522

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

Item #: QSH02115



## Specifications:

### Input:

- Differential Input: 0.9 - 4.5 mV/V
- Bridge Resistance: 350 Ohm - 5000 Ohm
- Bridge Excitation: Variable up to 5 VDC

### Analog Output:

- Range:  $\pm 3$  VDC
- Bandwidth: 10 kHz
- Noise: 9 mV p-p

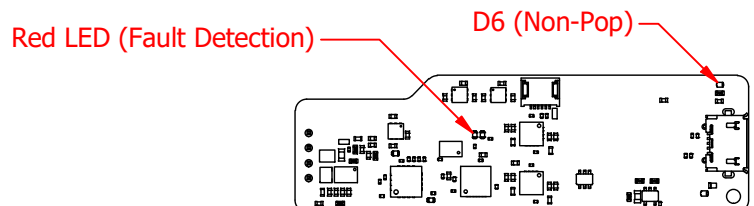
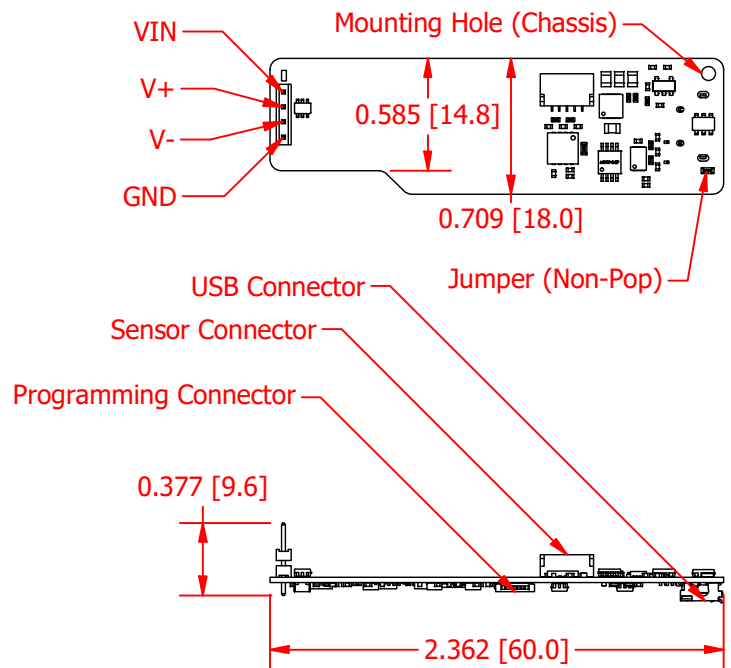
### Power:

- 4.5 - 5.5 VDC
  - o 20-40mV peak-to-peak ripple in passband
  - o 20MHz bandwidth (cutoff 40dB @ 20MHz)
- Power Consumption: 200mW
- Inrush Current: ~1A

Operating Temperature: -20°C to 80°C [-4°F to 176°F]

## Features:

- Differential Input
- Differential Output
- Short/Open Circuit Detection
- On Board Temperature Measurement



Note 1 : There are 2 non pop components, specified as Jumper and D6 to keep the Chassis (Mounting hole) floating

Note 2 : There is a differential filter in the output of amplifier with a bandwidth of 10kHz

Note 3 : Red LED indicates that there is an open/short at the input and/or the temperature is not within 16 C to 40 C

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