

MLT - LMT70 Flexprobe

Mark Wolf

August 9, 2016

Contents

| | |
|----------------------------------|----------|
| 1 License | 4 |
| 2 Introduction | 5 |
| 3 Schematic | 6 |
| 4 Layout | 7 |
| 4.1 Pin Assignement P1 | 7 |

Revision History

| Revision | Date | Author(s) | Description |
|-----------------|-------------|------------------|--------------------|
| 1.0 | 09-08-2016 | Mark | Initial Release |

1 License

Copyright/Author: Mark Wolf, MLT

This board is Open Source Hardware, licensed under the CERN OHL v.1.2.

<http://ohwr.org/cernohl>

All documentation is available at <http://www.maleetronic.com>

Please feel free to send us any feedback, comments and suggestion, it is highly appreciated.

2 Introduction

The MLT - LMT70 Flexprobe is an star-flex-star pcb design with the LMT70 analog output temperature sensor from Texas Instruments(TI). More details about the sensor can be found in the data sheet.

For easier handling and use, there is an 3 pin IDC connector with convenient bread-board-friendly 2.54mm (100mil) pitch on one end. This design is approximately 5cm (2inch) long.

This board comes with unsoldered 3 pin IDC header. Someone may want to solder wires to it instead of an IDC connector.

3 Schematic

Figure 1 shows the schematic of this board.

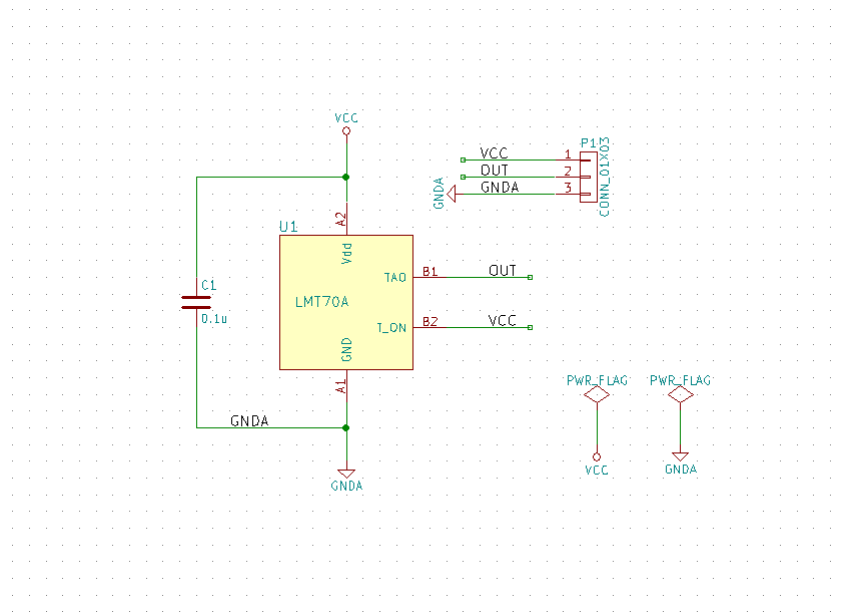


Figure 1: Schematic

4 Layout



Figure 2: Layout

4.1 Pin Assignment P1

Pin 1 is the square pad on P1.

| Pin | Net | Description |
|-----|------|---------------|
| 1 | VCC | 2.0 to 5.5V |
| 2 | OUT | Analog Output |
| 3 | GNDA | Analog GND |