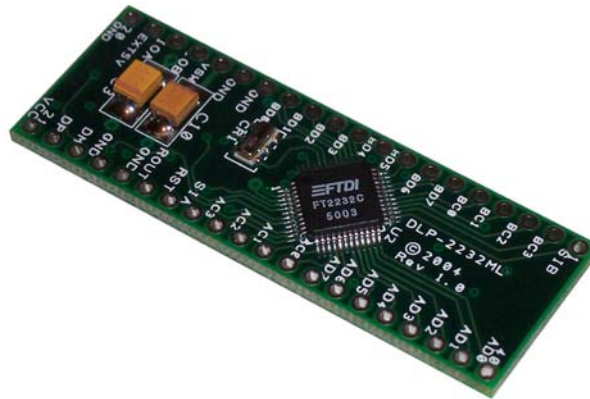




DLP-2232ML-G LOW-PROFILE USB MODULE

* Lead Free *



1.0 Introduction

The DLP-2232ML-G utilizes FTDI's third-generation USB UART/FIFO I.C., the FT2232D. This low-cost, RoHS compliant development tool features two Multi-Purpose UART/FIFO controllers that can be configured individually in several different modes.

In addition to the UART interface, FIFO interface, and Bit-Bang IO modes of the second-generation FT232BM and FT245BM devices, the FT2232D offers a variety of additional modes of operation including a Multi-Protocol Synchronous Serial Engine interface designed specifically for synchronous serial protocols such as JTAG and SPI bus.

The DLP-2232ML-G features a quality four-layer printed circuit board with a solid ground plane, an integral 93C56 EEPROM on board for easy OEM customization and a standard 40-pin, 0.6in wide footprint. Integral power control and on-board MOSFET power switch make the DLP-2232ML-G a perfect choice for USB bus-powered, high-power designs as well as self- and low-powered products.

NOTE: With the exception of the mechanical connectors, mechanical dimensions and the host connection interface signals, the DLP-2232ML-G and DLP-2232M-G are the same product. The supporting electronics for the USB connector are already on the DLP-2232ML-G board, just add a type B connector to your design and you're ready to go.

For a complete list of features and specifications please refer to the datasheet for the DLP-2232M-G.

2.0 Module Pin-Out

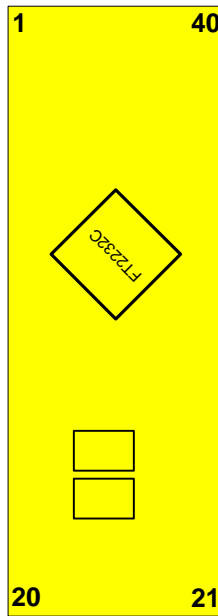
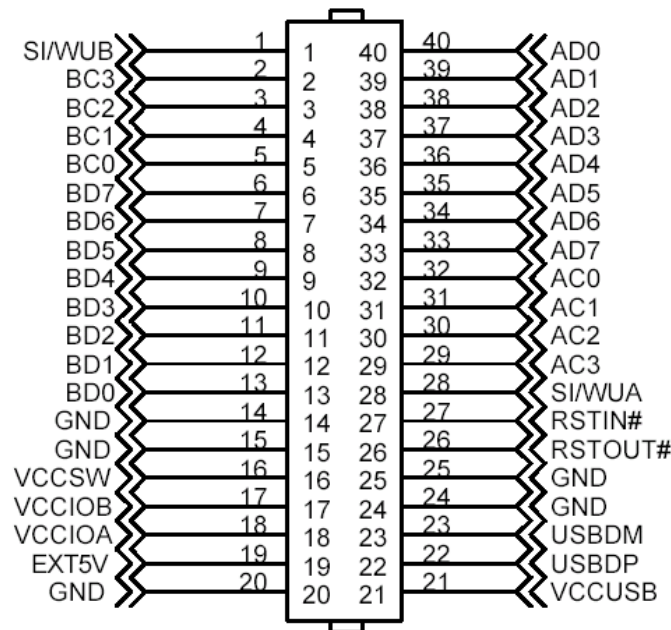


Figure 2. Pin-Out (40 Pin DIP Header)

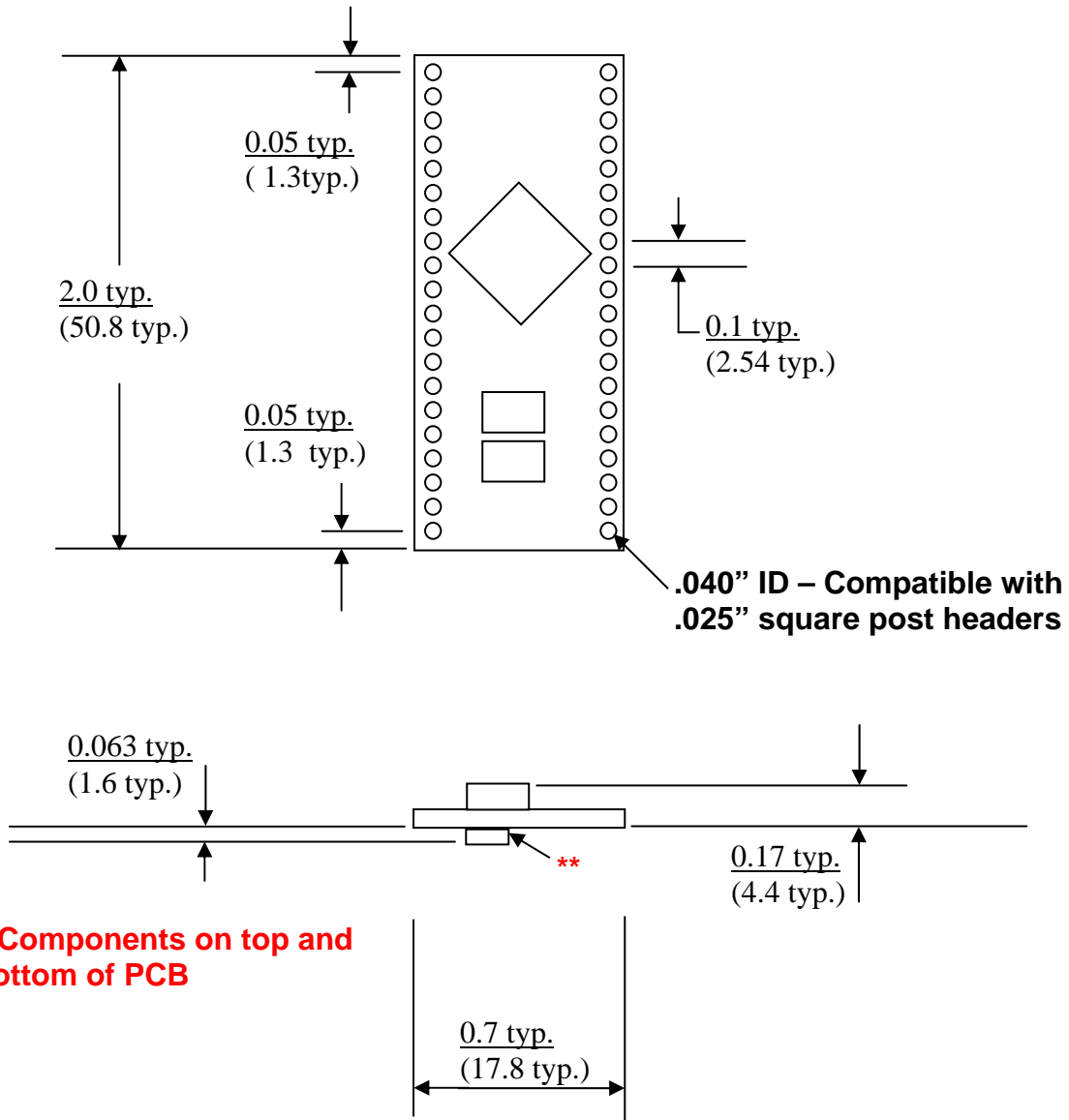
2.1 Pin Definitions

Since the DLP-2232ML-G does not have a USB connector, the USBDM and USBDP signal lines are brought out on pins 23 and 22 as shown here.



With the exception of the 2 USB communications lines (USBDM and USBDP) and pin 20, the pinout for the DLP-2232ML-G is the same as the DLP-2232M-G module. Please refer to the datasheet for the DLP-2232M-G for a complete description of the pinout.

3.0 Mechanical Dimensions Inches (mm)



4.0 Disclaimer

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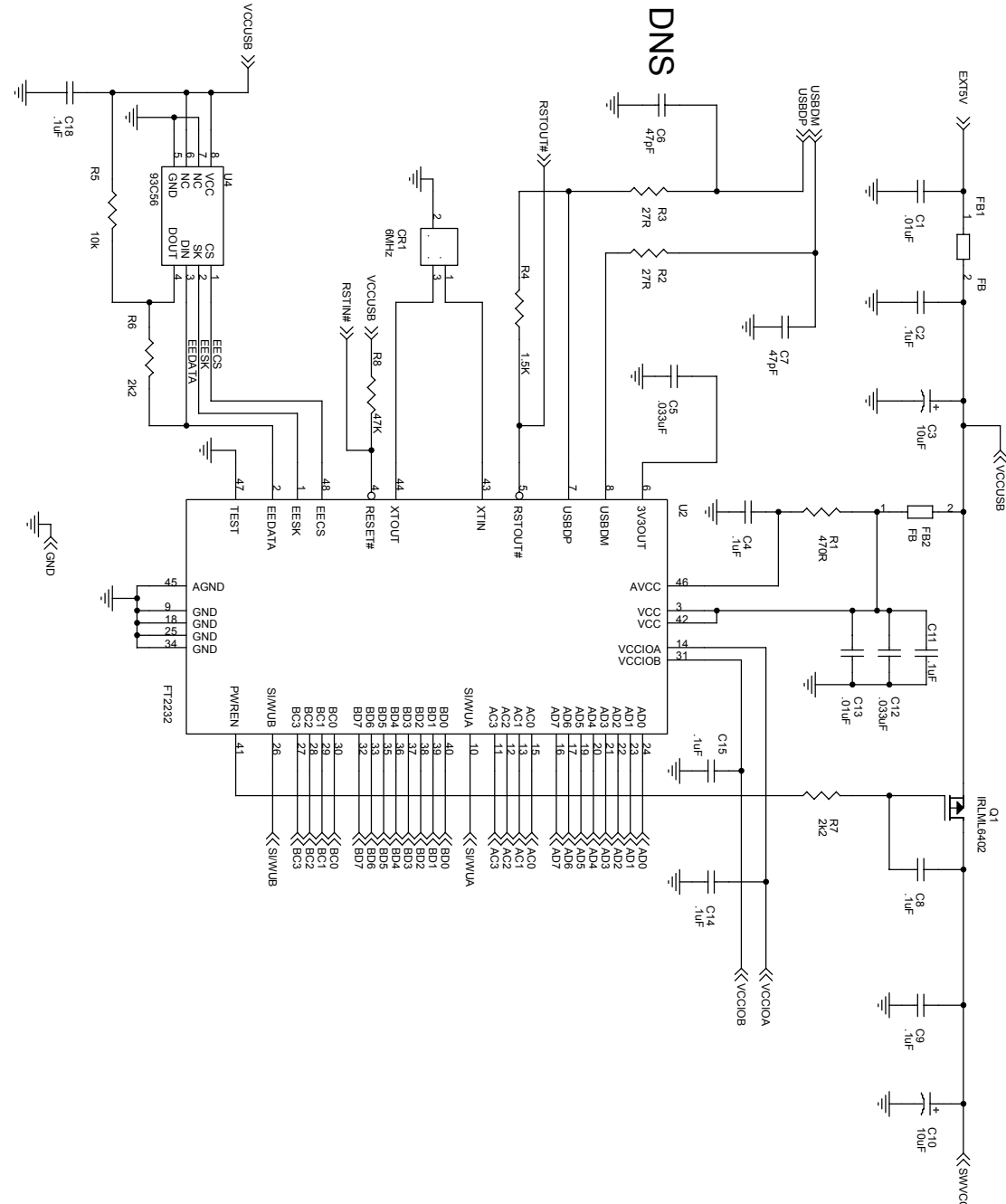
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This document provides preliminary information that may be subject to change without notice.

5.0 Contact Information

DLP Design, Inc.
1605 Roma Ln.
Allen, TX 75013
Phone: 469-964-8027
Fax: 415-901-4859
E-Mail (Sales) : sales@dlpdesign.com
E-Mail (Support) : support@dlpdesign.com
Web Site URL : <http://www.dlpdesign.com>

DLP-2232ML MODULE



CONN PCB 20X2

1	40	<<AD0
2	39	<<AD1
3	38	<<AD2
4	37	<<AD3
5	36	<<AD4
6	35	<<AD5
7	34	<<AD6
8	33	<<AD7
9	32	<<AC0
10	31	<<AC1
11	30	<<AC2
12	29	<<AC3
13	28	<<SIMWA
14	27	<<RSTIN#
15	26	<<RSTOUT#
16	25	<<GND
17	24	<<GND
18	23	<<GND
19	22	<<GND
20	21	<<GND

Title	<Title>
Size	Document Number
Rev	<Rev>
Date	Saturday, April 17, 2004
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