

CMA3000-A0X PWB Specification



1 Introduction

The purpose of CMA3000-A0X PWB is to enable fast prototyping.

CMA3000-A0X PWB includes

- CMA3000-A01 sensor soldered on PWB
- PWB design # VT129264 with pin headers and analog buffer circuitry
- Connectors and passive components

Refer to "CMA3000-A0X_product_family_datasheet_8282100" when using the CMA3000-A0X PWB.

2 CMA3000-A0X PWB

Detailed BOM of CMA3000-A0X PWB is presented in Table 1 below.

Table 1. BOM of CMA3000-A0X PWB.

Item	Qty	Ref	Part Name / type	Value
1	1	J1	8-pin through hole pin header, pitch 100 mils, pin size 0.63x0.63mm, length ~5.85mm (example mating part: Samtec: SSQ-107-01-S-S)	
2	1	J2	7-pin through hole pin header, pitch 100 mils, pin size 0.63x0.63mm, length ~5.85mm (example mating part: Samtec: SSQ-108-01-S-S)	
3	1	J3	3-pin through hole pin header, pitch 100 mils, pin size 0.63x0.63mm, length ~5.85mm (example mating part: Samtec: SSQ-103-01-S-S)	
4	2	C1, C5	capacitance, package size 0402	100nF
5	3	C2, C3, C4	CMA3000-A0X load capacitance C_L , package size 0402	100nF
6	1	IC1	CMA3000-A0X sensor	
7	1	IC2	TLV2765 (OpAmp), package TSSOP16	
8	5	R1-R5	Resistor, package size 0402	100k Ω
9	1		PWB (design #VT129624) Material FR4, thickness 1,6 mm, size 20 × 23 mm	

Detailed pictures of CMA3000-A0X PWB are presented in following pages:

- Circuit diagram
- PWB layout
- Assembly drawings

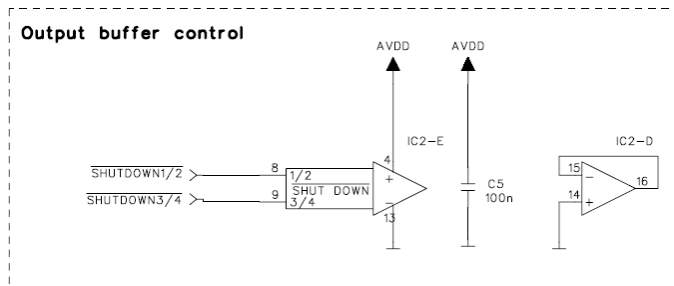
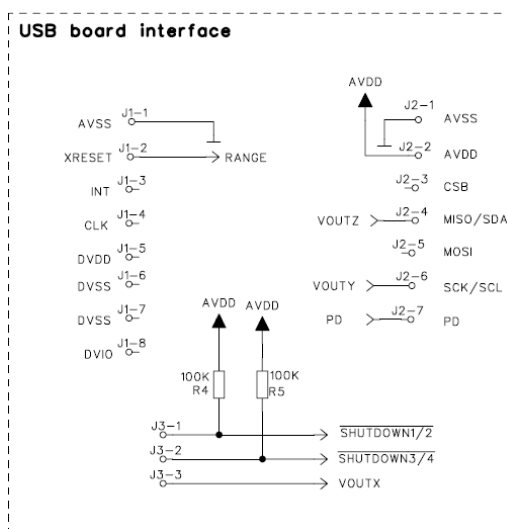
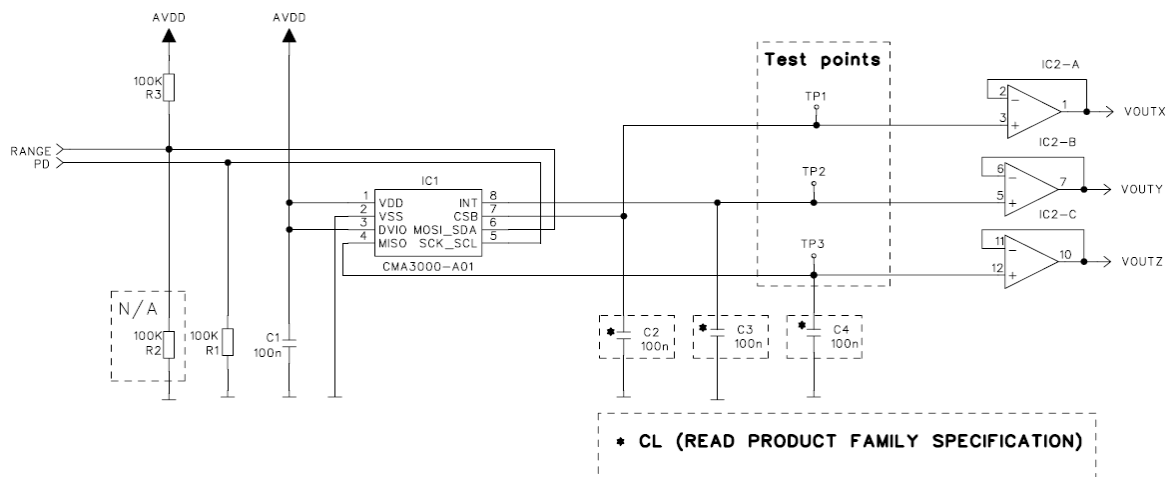


Figure 1. CMA3000-A0X PWB circuit diagram.

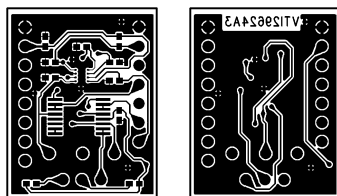


Figure 2. Layouts of CMA3000-A0X PWB.

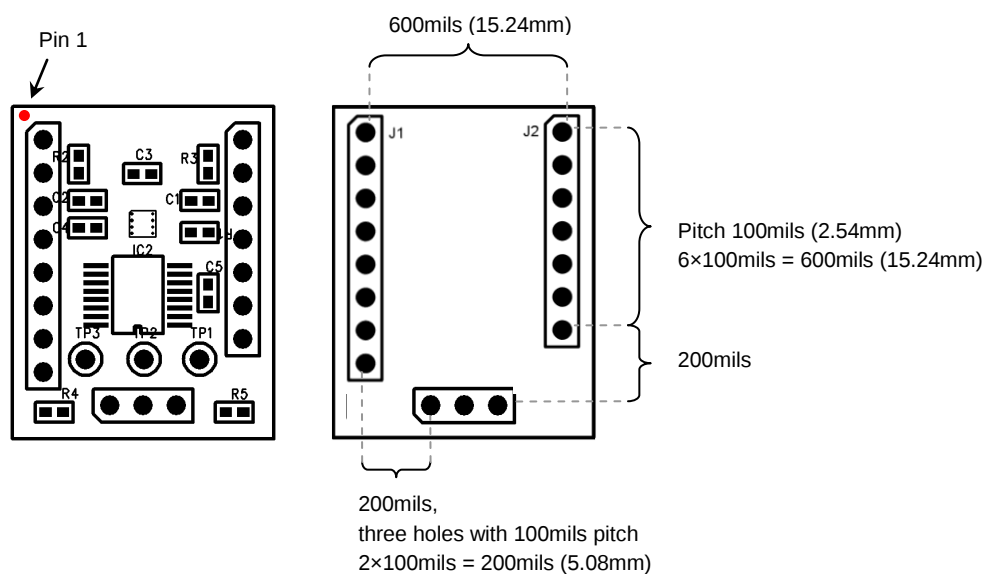


Figure 3. Assembly drawings for CMA3000-A0X PWB.

3 Document Revision History

Version	Date	Change Description
A.01	27.02.2008	Initial release
A.02	10.12.2008	Cover page picture updated
A.03	14.01.2009	Load capacitance values and package sizes in BOM updated
A.04	03.08.2012	Update to Murata template.