MEMS 1x4 Non-Latching Fiber Optical TTL Driver Instruction part number ()

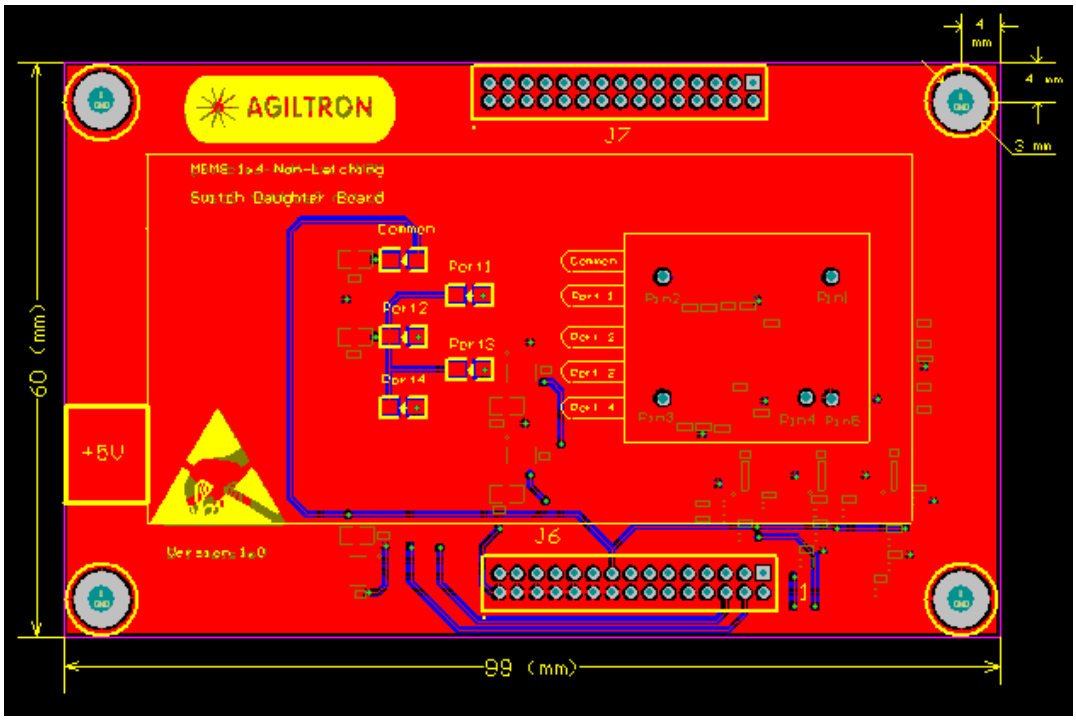
Woburn MA 01801
www.agiltron.com

1. *Introduction*

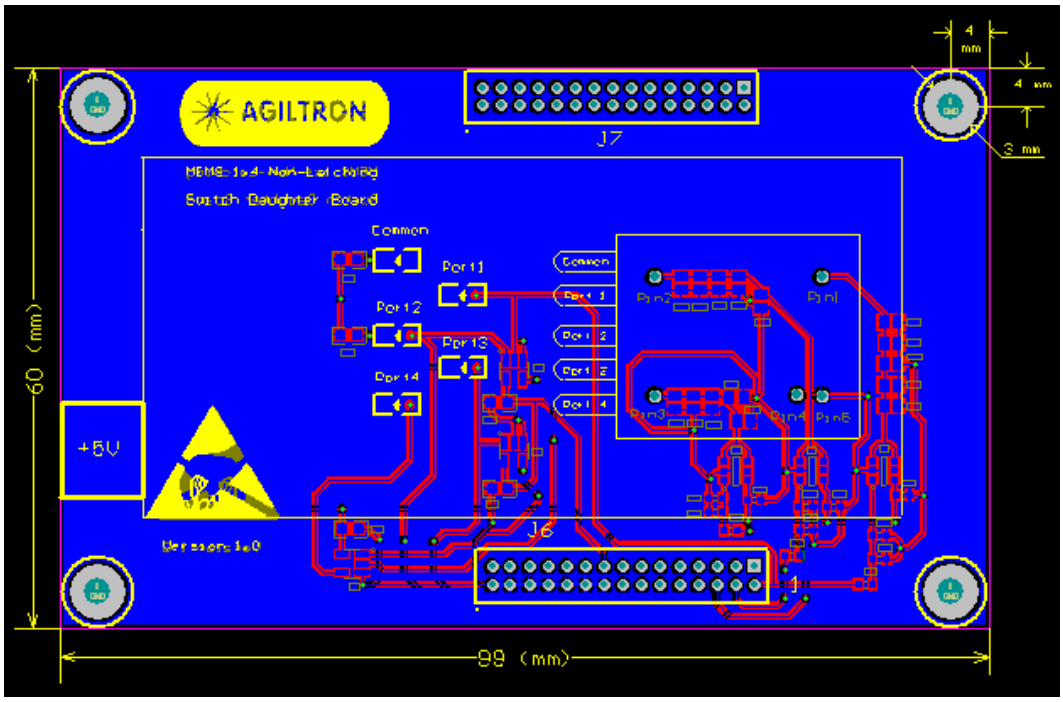
The objective of this electronic driving board is to demonstrate the full functionality of the 1x4 MEMS switch. The interface for this board is TTL. A wall-plug power supply is accompanied by the board. For system level applications, we provide a turn-key solution with various interface options.

2. *Board Layout*

Top View

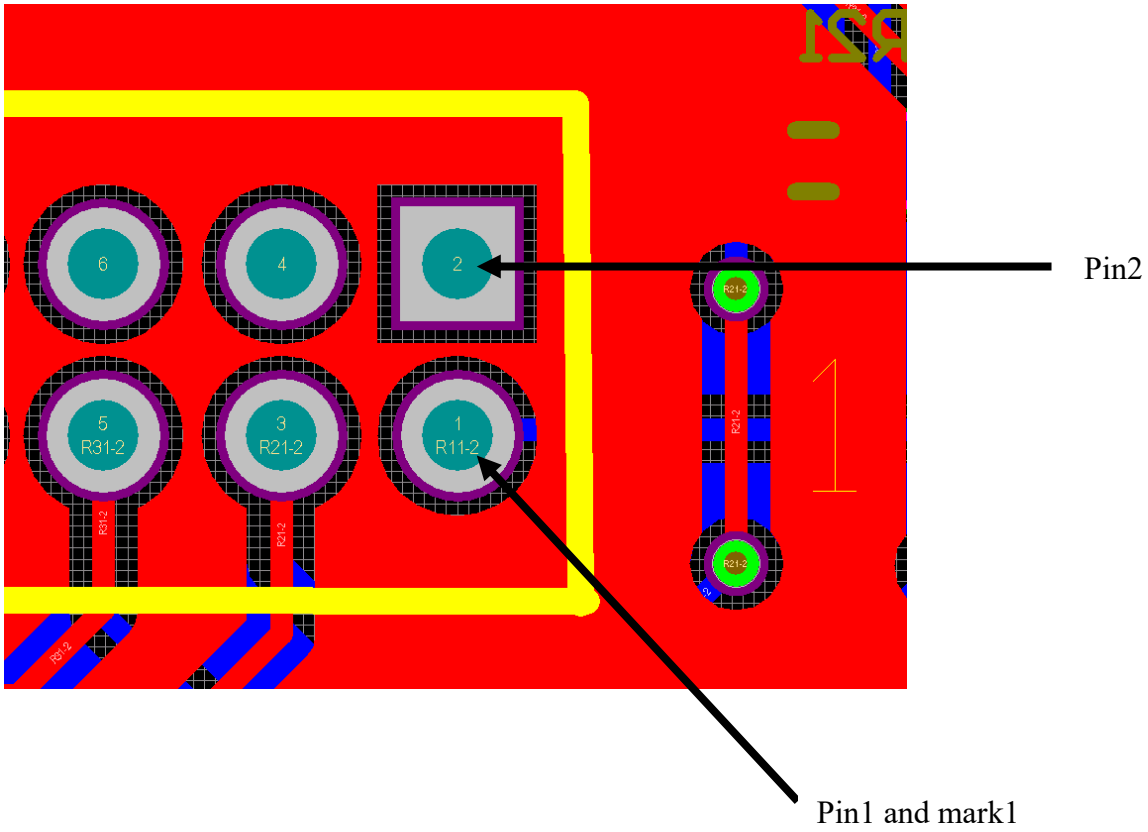


Bottom View



3. *TTL Connection*

The connector is J6 (3M Manufacturer part number: 150230-6002-RB).



1	TTL in	logic “0”, or”1”, depends on the truth table.
2	NC	
3	TTL in	logic “0”, or“1”, depends on the truth table.
4	NC	
5	TTL in	logic “0”, or“1”, depends on the truth table.
6	NC	
7	NC	
8	NC	
9	NC	
10	NC	
11	NC	
12	NC	
13	NC	
14	NC	
15	NC	
16	NC	
17	GND	Power supply (-)
18	+5V in	Power supply (+)
19	GND	
20	NC	
21	GND	
22	NC	
23	GND	
24	NC	
25	GND	
26	NC	
27	GND	
28	NC	
29	GND	
30	NC	

Note: NC --- No connect
GND --- connect to ground
+5V --- +5V DC +/- 0.1V input
TTL in --- TTL signal input pins. Logic “0” is </= 0.8V and logic “1” is >/= 2.8V
J7 is totally NC.

4. Truth Table

This truth table is only for Agiltron MEMS 1x4 Non-Latching Switch.

Optical Path	Pin 1	Pin 3	Pin 5
Input to output1	+	-	-

Input to output2	-	+	-
Input to output3	-	-	+
Input to output4	-	-	-

Note: + ---- logic “1”
- --- logic “0”

Pin1, 3, 5 are for J6 connector

1) Pin of the board: