

SiT6303EB Evaluation Boards User Manual for Single-Ended Oscillators

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1 Introduction

The SiT6303EB series of evaluation board allows a user to evaluate the functionality of SiTime pre-programmed 4-pins oscillator of SiT8021 series on a customer's Circuit Board. SiTime recommends evaluating parts in a soldered down condition, for best signal integrity, and for best conformance to typical condition in practical applications, where parts are soldered down into a production system. The SiT6303EB series support 1.55 x 0.85 mm CSP (chip-scaled package) type.

2 Board Information

The schematic of the board is shown on Figure 1. There is one Edge Connector J1 for pre-programming the part on SiTime factory. Between Pin 3 (VDD) and Pin 4 (GND) the ceramic bypass capacitor 0.1 uF with package type 0402 (1005 metric) is using.

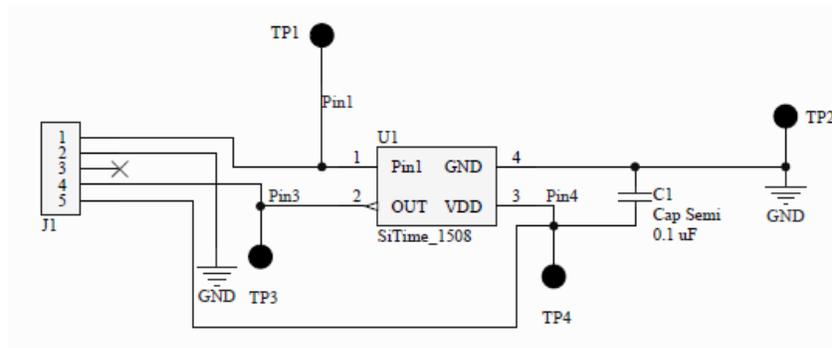


Figure 1: SiT6303EB r. 1.0 schematic

The layout of the board Top side and Bottom side are shown on Figure 2 and Figure 3 correspondently. Board dimensions are 15 x 10 mm.

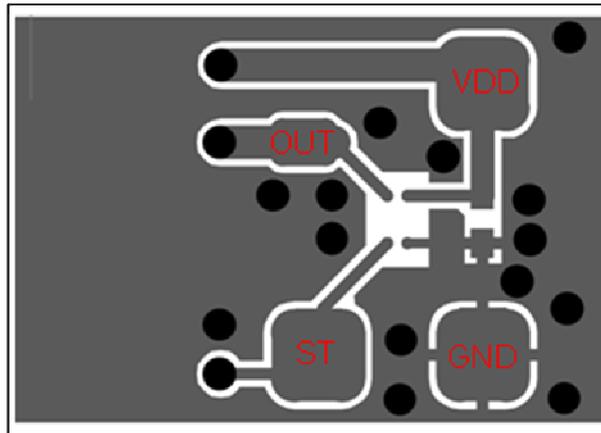


Figure 2: SiT6303EB layout (Top side)

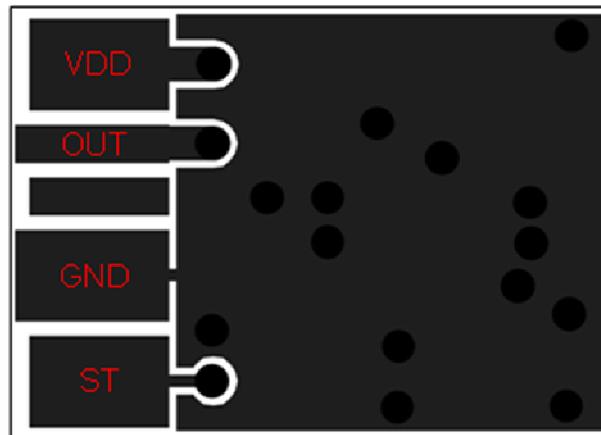


Figure 3: SiT6303EB layout (Bottom side)

3 Usage Notes

Customer can connect the Evaluating Board to his Circuit Board by wires soldering ones at points “ST”, “GND”, “VDD” and “OUT” (see Figure 2) and correspondent points of customer Circuit Board. Wires length should be about 0.5”.

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