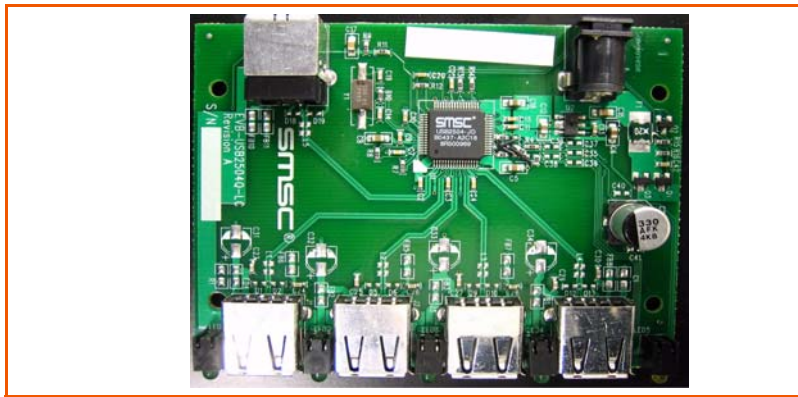


EVB-USB2504-CRB Customer Reference Board



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1 Overview

1.1 Features

- Operates from a single voltage (+5.0V, regulated) wall wart external power supply
- Onboard +3.3V Regulator
- Self-powered operation
- Green LED indicator for each port and a single amber LED indicator
- Ganged port over-current sense and power switching
- Multi-TT enabled
- High-speed/Full-speed capable
- 100mS down stream port power on time
- 1mA VBUS current consumption
- PCB - 2.6" X 3.5", 4-layers

1.2 General Description

The primary purpose of this board is to demonstrate a low cost self-powered USB HUB with the SMSC USB2504 4-port HUB. A single poly-switch provides over current protection. Two P-MOS FETs switches down stream port power. The PCB layout has provisions for optional EMI protection and optional ESD protection. All components are placed on the top. Figure 1 shows the top-level silkscreen.

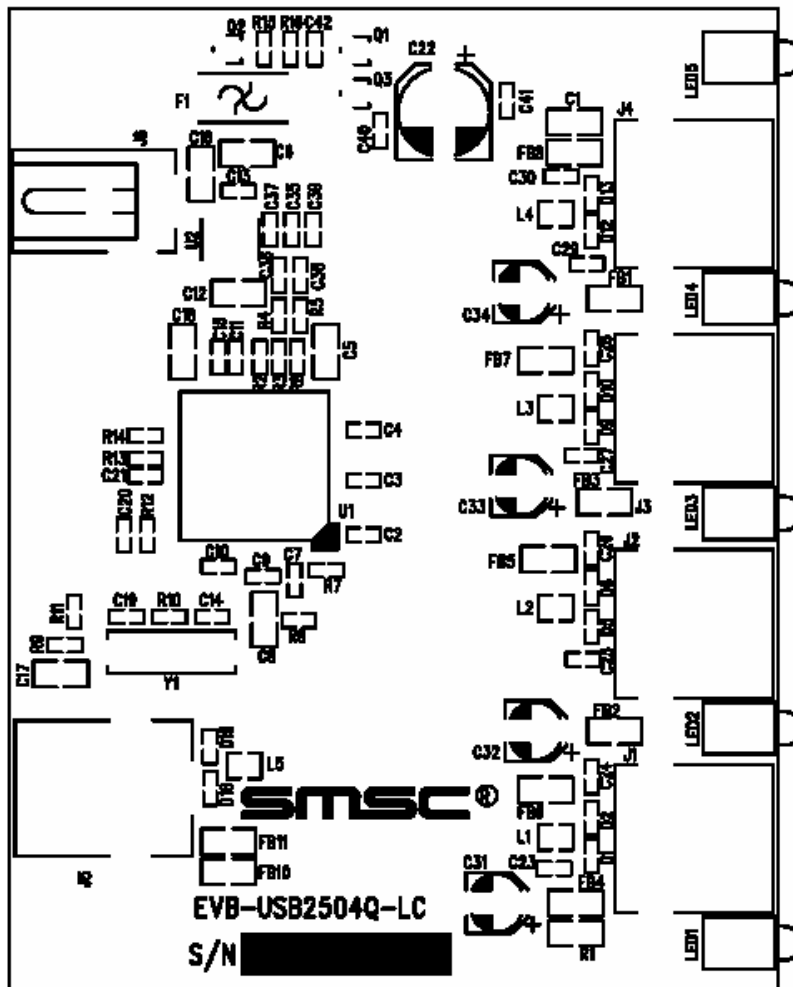


Figure 1.1 Silkscreen Top Level