



Mustang Mechanical Specification  
Rev 1.0  
06/29/06

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**1. Change Log**

Revision	Description	Editor
1.0	Release	SMS

## **2. Introduction**

This document provides the mechanical and PCB requirements for development a motherboard for use with the Mustang Ethernet Solution.

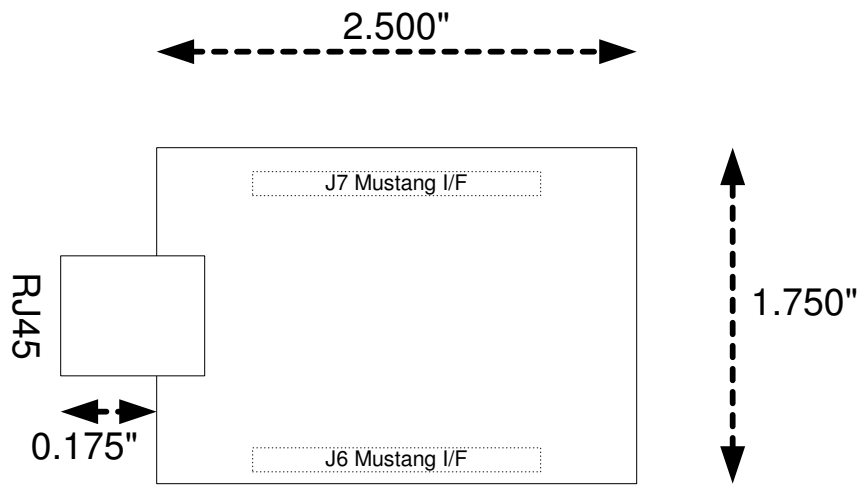
### 3. Mustang PCB Footprint

This drawing shows the mechanical envelope for the Mustang PCB.

The PCB dimension tolerance is +/- 0.010"

Connectors J7 and J6 (Mustang Interface Bus) are mounted on the underside of the board.

The RJ45 Connector extends 0.175" beyond the leading edge of the PCB. This connector is located on the PCB centerline.



View From Top

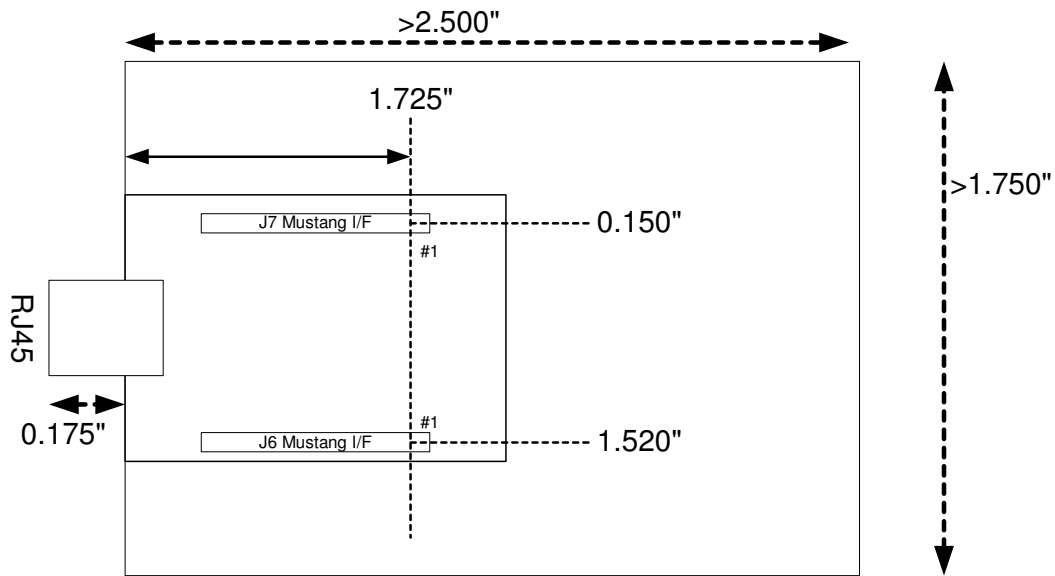
#### 4. Motherboard Footprint for Mustang

In order to connect to the Mustang, the motherboard must provide two 1x20 receptacles to interface with the 1x2 headers on the Mustang main PCB.

The Motherboard must provide receptacle part number: Samtec SMS-120-01-F-S

This connector is a 1x20 pin, 0.050" pitch, single row connector with Gold Flash plating.

The required Motherboard footprint is shown below.

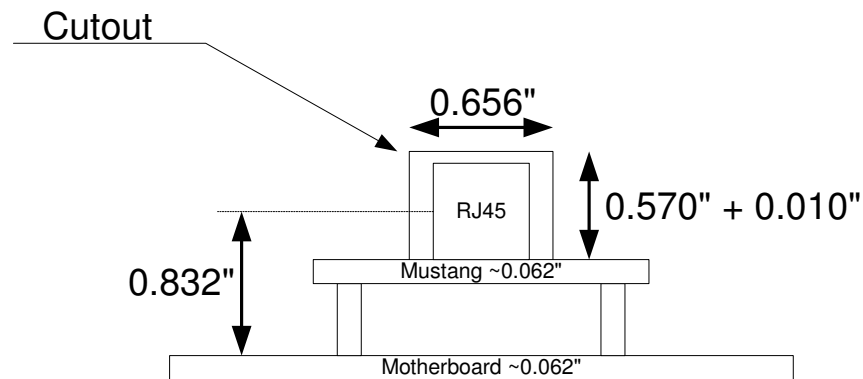


View From Top To Pin#1 of J7 and J6

## 5. Front Panel/RJ45 Cutaway

If the Mustang's RJ45 connector is to protrude through a panel opening a cutout must be provided.

The following detail shows the recommended panel cutout and vertical stackup of the Mustang.



The Vertical dimension, referenced from the top of the motherboard, to the center of the RJ45 connector is. The RJ45 is centered on the PCB as is referenced (in this drawing) as the origin.

The horizontal dimension of the panel cutout should be 0.656".

The vertical dimension of the panel cutout should provide 0.570" ABOVE the surface of the Mustang PCB and 0.010" BELOW the surface of the Mustang PCB.

## 6. Component Keepouts

It is acceptable to locate components on the motherboard area underneath the Mustang.

The component height must not exceed 0.200" when placing components on the motherboard.