

**Printronix Guide Specification
RFID Label
860-960 MHz EPC Class 1, Gen 2
Alien 9640/9740 Squiggle Antenna**



Applicable Printer Models

SL4M/SL5000r MP2 Standard Pitch and SL4M Short Pitch

Disclaimer

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9/25/2012

Scope

This document provides guide specifications for constructing UHF Class 1, Gen 2, RFID labels with an Alien 9640 or 9740 Squiggle RFID Gen2 Antenna for use with Printronix RFID SL4M, SL5000r MP2 Standard Pitch and SL4M Short Pitch printers.

Requirements

Inlay Characteristics

Inlay: **Alien 9640 Squiggle**. Silicon Type: **Alien Higgs 3**. TID: **E2003412**.

Alien 9740 Squiggle. Silicon Type: **Alien Higgs 4**. TID: **E2003414**.

Nominal operating frequency: 860-960 MHz.

EPC Memory: **Alien 9640 Squiggle**: 96 up to 256 bits

Alien 9740 Squiggle: 128 bits.

User Memory: **Alien 9640 Squiggle**: 320 up to 512 bits (set automatically based on EPC memory setting).

Alien 9740 Squiggle: 128 bits.

EPC Protocol: UHF Class 1, Gen 2

Printer Setup

SL4M/SL5r MP2 Std Pitch & SL4M Short Pitch Coupler Position: **Orange**

SL4M/SL5r MP2 Std Pitch & SL4M Short Pitch RFID menu Tag Type: “**Alien9640 Squig**”

SL4M/SL5r MP2 Std Pitch & SL4M Short Pitch RFID menu Tag Type: “**Alien9740 Squig**”

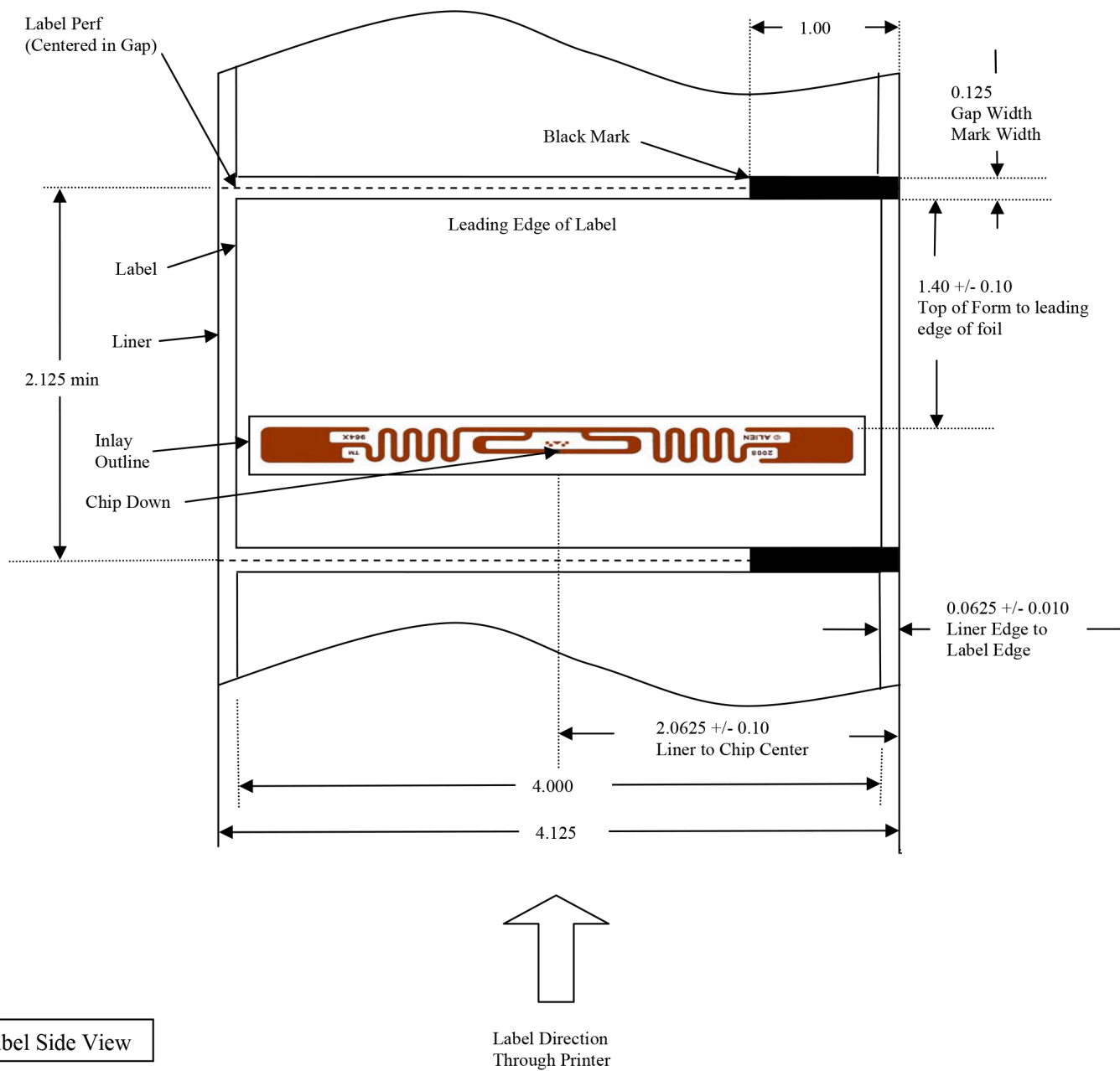
SL4M/SL5r MP2 Std Pitch RFID menu (Interim Tag Type: “**Alien9640 Squig**”).

SL4M Short Pitch RFID menu (Interim Tag Type: “**Alien9640 Squig**”).

SL4M MP2 Std Pitch RFID menu Tag Position: **0.0 inches**

SL4M Short Pitch RFID menu Tag Position: **-0.3 inches**

Interim Tag Type selection works with 96 bit EPC only. Printer firmware update is required to work with full memory.

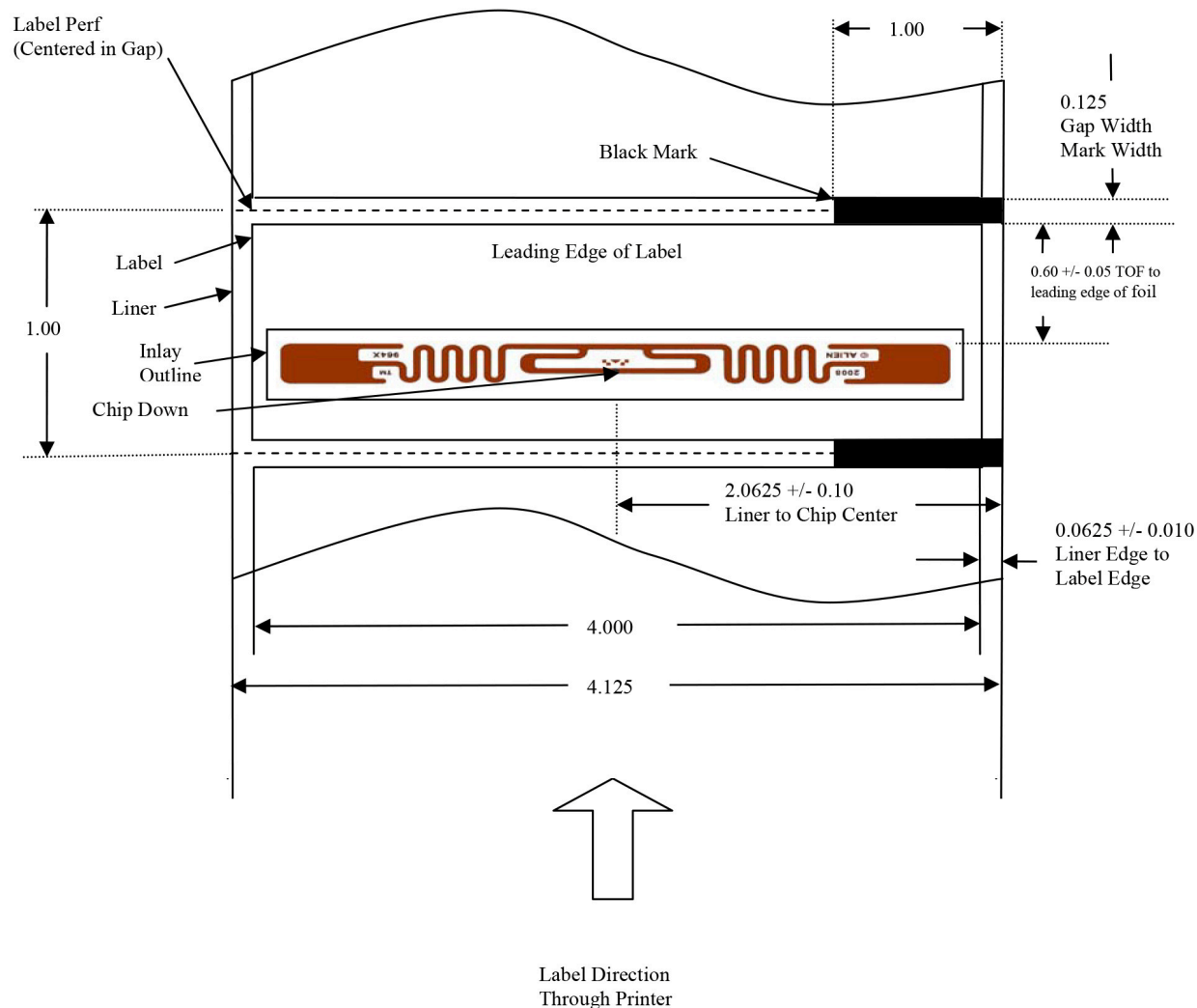


**Printronix RFID Label Requirements for SL4M/SL5r MP2
Standard Pitch Gen 2
Alien 9640/9740 Squiggle Inlay**

Not to Scale
All Dimensions in Inches

Sept 25, 2012
Revision 1.0

Figure 1. Label Layout



**Printronix RFID Label Requirements for SL4M “Short Pitch”
Alien 9640/9740 Squiggle Inlay**

Label Side View

Not to Scale
All Dimensions in Inches

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Figure 2. Label Layout

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