

Printronix Auto ID Guide Specification
RFID Label
860-960 MHz EPC Class 1, Gen 2
Alien 9640/9740/9840 Squiggle Antenna



Applicable Printer Models

SL4M/SL5000r MP2 Std Pitch, SL4M/T6 Short Pitch and T6 On Pitch

Disclaimer

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10/24/2016

Scope

This document provides guide specifications for constructing UHF Class 1, Gen 2, RFID labels with an Alien 9640, 9740 or 9840 Squiggle RFID Gen2 Antenna for use with Printronix Auto ID RFID SL4M and SL5000r MP2 Std Pitch or SL4M and T6 Short Pitch or T6 On 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**.

Alien 9840 Squiggle. Silicon Type: **Alien Higgs EC**. TID: **E2003811**.

Nominal operating frequency: **860-960 MHz**.

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

Alien 9740 Squiggle: 128 bits.

Alien 9840 Squiggle: 128 bits.

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

Alien 9740 Squiggle: 128 bits.

Alien 9840 Squiggle: 128 bits.

EPC Protocol: **UHF Class 1, Gen 2**

Printer Support and Setup

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

T6 Short Pitch and T6 On Pitch Antenna Position: **7**

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**"

T6 Short Pitch RFID menu Tag Type: "**Aln9640 ShortPitch**"

T6 Short Pitch RFID menu Tag Type: "**Aln9740 ShortPitch**"

T6 Short Pitch RFID menu Tag Type: "**Aln9840 ShortPitch**"

T6 On Pitch RFID menu Tag Type: "**Aln9640 OnPitch**"

T6 On Pitch RFID menu Tag Type: "**Aln9740 OnPitch**"

T6 On Pitch RFID menu Tag Type: "**Aln9840 OnPitch**"

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

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

T6 Short Pitch RFID menu (Interim Tag Type: "**N/A**").

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

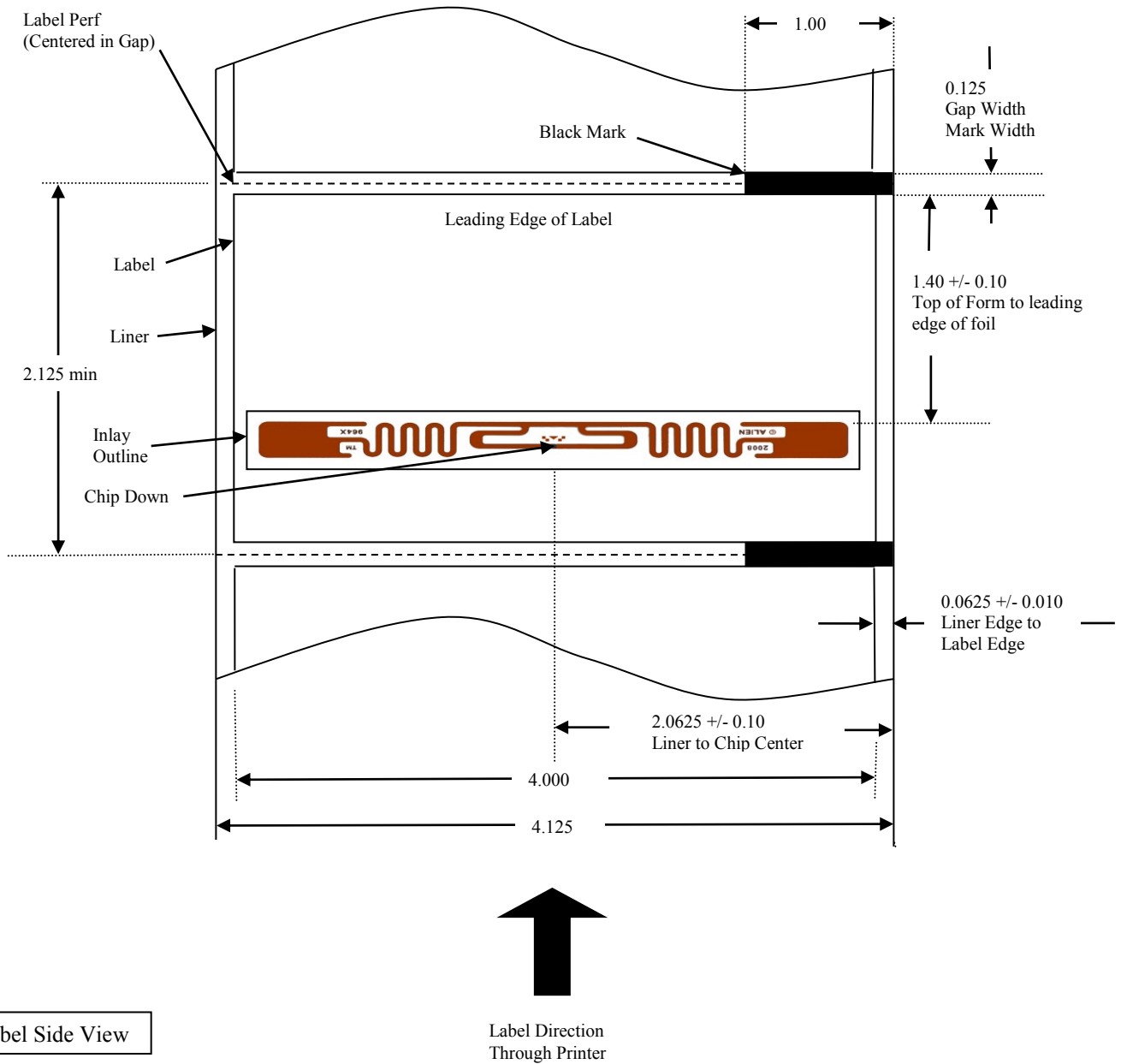
SL4M and T6 Short Pitch RFID menu Tag Position: **-0.3 inches**

T6 On Pitch RFID menu Tag Position: **-0.8 inches**

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

Contact Information

For comments or questions, please contact Andy Edwards at AEdwards@PrintronixAutoID.com or 657-258-0816.

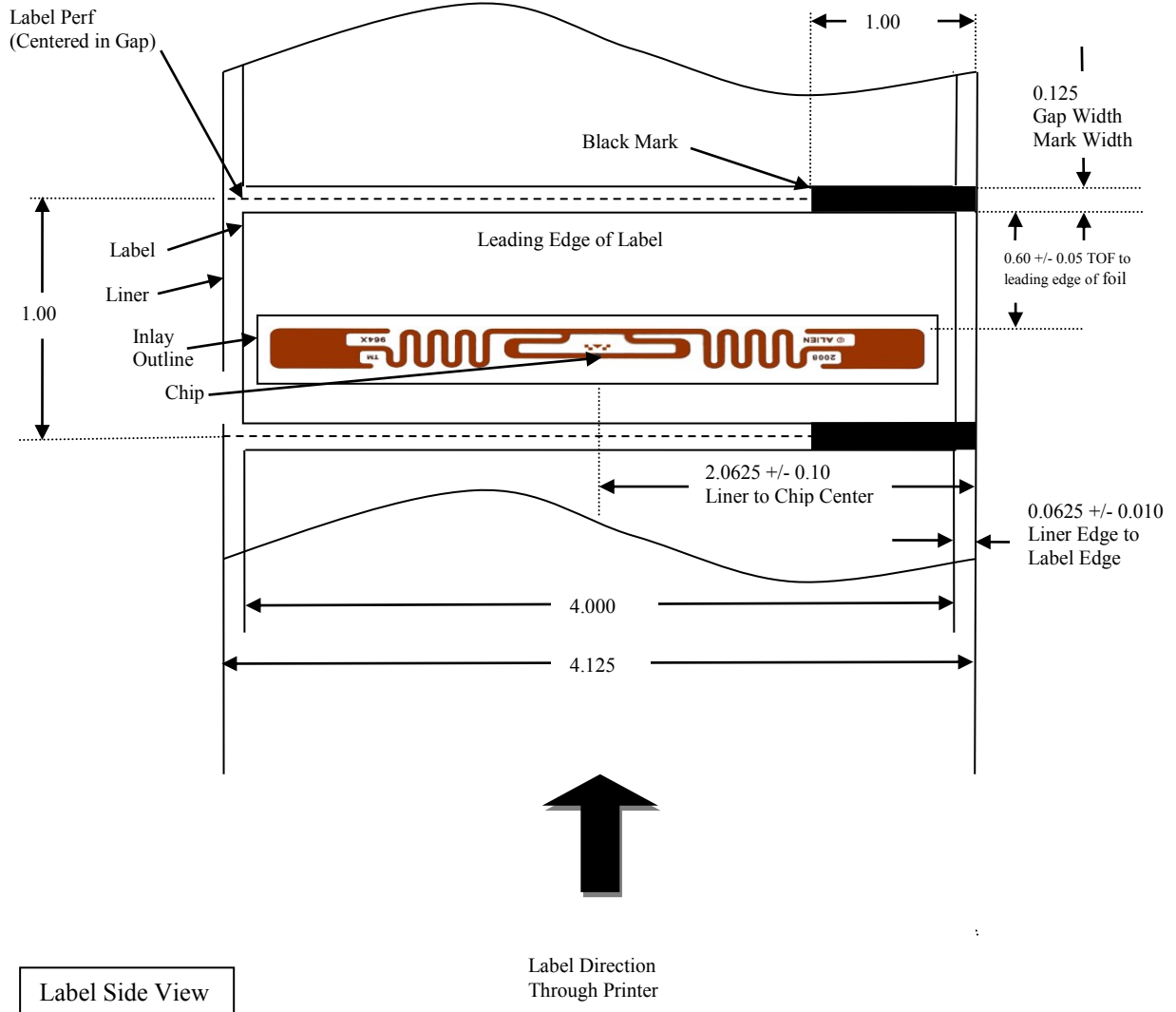


**Printronix Auto ID RFID Label Requirements for Standard Pitch
SL4M/SL5r MP2 Gen 2
Alien 9640/9740 Squiggle Inlay**

Not to Scale
All Dimensions in Inches

Oct 24, 2016

Figure 1. Label Layout

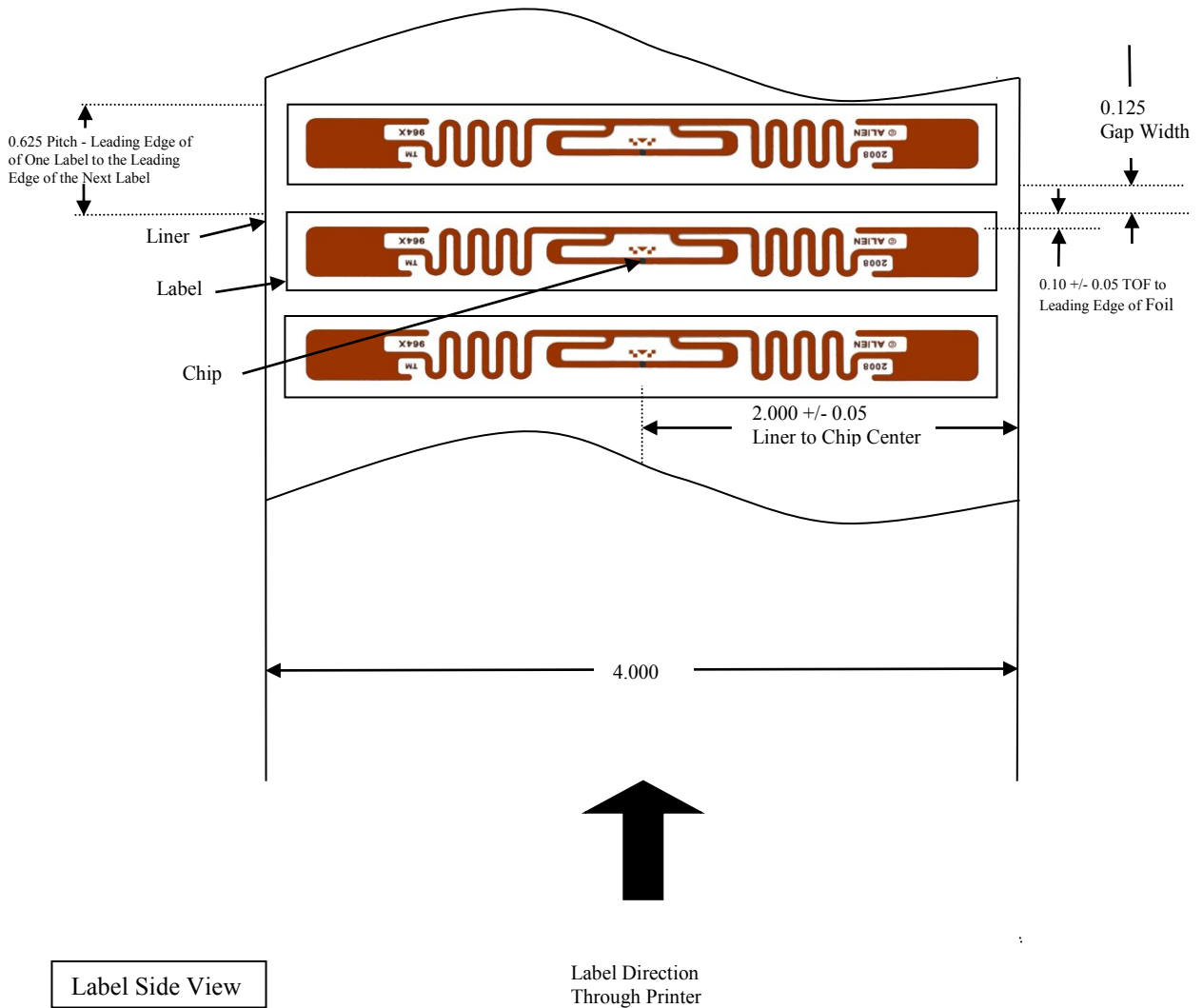


**Printronix Auto ID RFID Label Requirements for SL4M/T6
 “Short Pitch” Alien 9640/9740/9840 Squiggle Inlay**

Not to Scale
 All Dimensions in Inches

Oct 24, 2016

Figure 2. Label Layout



**Printronix Auto ID RFID Label Requirements for T6 "On Pitch"
Alien 9640/9740/9840 Squiggle Inlay**

Not to Scale
All Dimensions in Inches

Oct 24, 2016

Figure 3. Label Layout