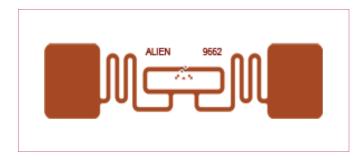


The Alien Technology® ALN-9662 "Short" RFID inlay is a narrower version of its high performance, general purpose Squiggle® sibling



Powered by Alien®'s break-through Higgs™3 UHF RFID IC and innovative Squiggle antenna design, the ALN-9662 delivers industry leading EPC Gen 2 performance and reliability in a narrower width than it's bigger brother, the Squiggle®.

ALN-9662 inlays are World Tag compliant, enabling consistent operation across the diverse frequencies of the Americas, Europe, Middle East, Asia, and Africa.

With its Higgs-3 core, the Short delivers excellent performance and a rich feature set including a 32-bit TID, a 64-bit Unique TID for authentication and serialization applications, an extensible EPC memory bank, 512-bits of user memory for distributed data applications, and password protected read and write support capabilities to prevent unauthorized viewing and modification of the tag's data.

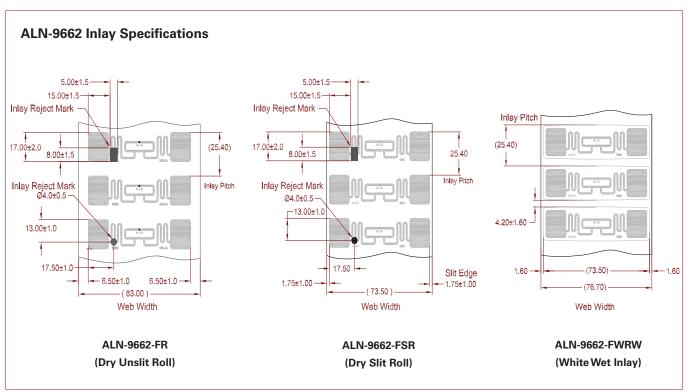
Typical applications for the Short include, but are not limited to, corrugate cases, pallet placard labels, apparel hang tags, shipping labels, asset management, file folder labels, and application on plastics.

FEATURES

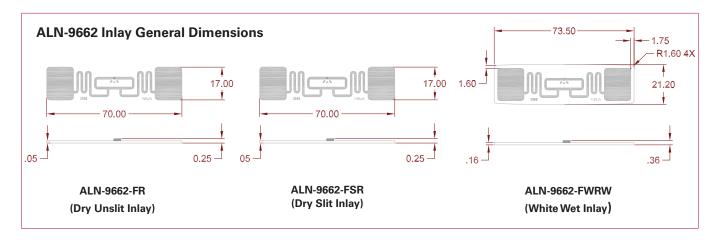
- > Exceptional performance
- > EPC Gen 2 (v1.2.0) compliant
- > ISO/IEC 18000-6C compliant
- > Worldwide RFID UHF operation (840-960MHz)
- → HiggsTM-3 IC with 800-bits of Nonvolatile Memory
 - 32-bit TID
 - 64-bit Unique TID
 - 96-bit EPC Memory, extensible to 480-bits
 - 512-bit User Memory
 - 32-bit Access password
 - 32-bit Kill password
- Pre-programmed with a unique, unalterable 64-bit serial number (ideal for authentication)
- > User Memory can be Block Perma-Locked
- > User Memory can be Read Password protected in 64bit blocks, prohibiting unintended Reads without an access password
- Supports all Mandatory and Optional Gen 2 commands including item level commands
- > Custom commands for high speed programming
- Available in high-yield, high-capacity dry/wet inlay rolls for high volume converting processes

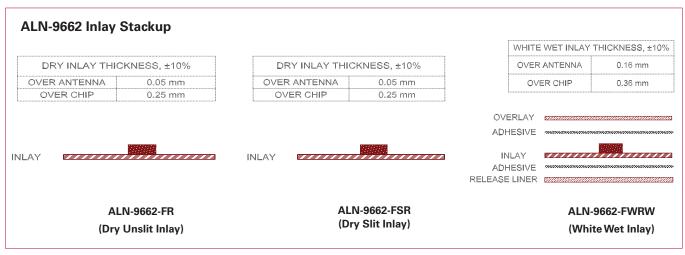


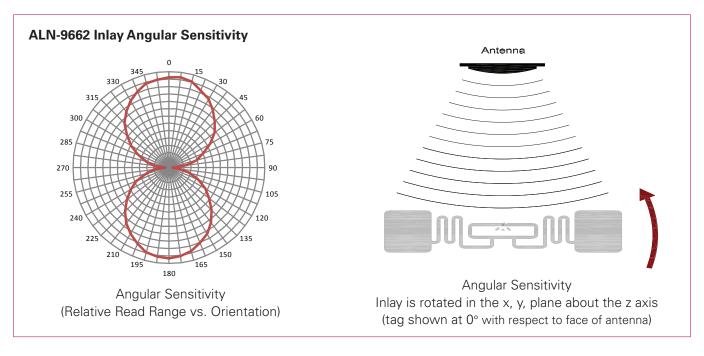














ALN-9662 Specifications

| Dry Inlay | |
|--------------------|------------------|
| Antenna Width | 2.756" [70mm] |
| Antenna Length | 0.669" [17mm] |
| Web Width (FR) | 3.27" [83.0mm] |
| Web Width (FSR) | 2.96" [73.5mm] |
| Web Pitch | 1.0" [25.4mm] |
| Core Width | 2.874" [73.0mm] |
| Core ID | 6" [152.4mm] |
| Core Material | Fiberboard |
| Interleaf Material | Paper |
| Interleaf Width | 1.5" [38.1mm] |
| Inlays per Roll | 15,000 Nominal |
| Maximum Roll OD | < 13" [330.2mm] |
| Roll Labeling Data | Roll #, Quantity |
| Wet Inlay | |
| Inlay Width | 2.96" [73.5mm] |
| Inlay Length | 0.835" [21.2mm] |
| Web Width (FWR) | 3.02" [76.7mm] |
| Web Pitch | 1.0" [25.4mm] |
| Core Width | 2.874" [73.0mm] |
| Core ID | 6" [152.4mm] |
| Core Material | Fiberboard |
| Inlays per Roll | 15,000 Nominal |
| Maximum Roll OD | < 16" [406.4mm] |

| Environmental | |
|---------------------|--|
| Shelf Life | 2 Years at +77°F [+25°C] @ 40%RH |
| Recommended Storage | +77°F [+25°C] @ 40% RH |
| Storage Limits | -13°F to 122°F [-25°C to +50°C] 20% to 90% RH Non-condensing |
| Operating Limits | -40°F to +158°F [-40°C to +70°C] 20% to 90% RH Non-condensing |
| Bend Diameter | > 1.97" [50mm] |
| Pressure | < 5N/mm ² |
| Drop Resistance | Per ASTM D5276 |
| Write Cycles | 10,000 |
| RoHs | 2002/95/EC Compliant |
| ESD – HBM / CDM | > 5.0kV / > 1.5kV |

| RFID | |
|-------------------------|--------------------|
| ISO/IEC 18000-6C | |
| EPCglobal Class 1 Gen 2 | |
| Integrated Circuit | Alien Higgs-3 |
| EPCglobal Certificate | 950110126000001084 |
| Operating Frequency | 840–960 MHz |
| EPC Size | 96 - 480 Bits |
| User Memory | 512 Bits |
| TID | 32 Bits |
| Unique TID | 64 Bits |
| Access Password | 32 Bits |
| Kill Password | 32 Bits |

Copyright © 2009 Alien Technology Corporation

Roll Labeling Data

Overlay (-FWRW)

Inlay Adhesive

Temperature

Release Liner

Adhesive Service Temperature

Adhesive Application

Overlay Adhesive (-FWRW)

All rights reserved. Alien, Alien Technology, the Alien Technology logo, FSA™, Alien Higgs-3, Squiggle, and the Squiggle logo are trademarks or registered trademarks of AlienTechnology Corporation in the U.S. and other countries.

Roll #, Quantity

> +36.5°F [+2°C]

 $-4^{\circ}F$ to $+199.4^{\circ}F$

[-20°C to +93°C]

Acrylic

Acrylic

40# SCK

2.5 Mil White Polyolefin

 $\textbf{HANDLING PRECAUTIONS} \ \text{Observe standard handling practices to minimize ESD.} \\$

DISCLAIMER Application recommendations are guidelines only - actual results may vary and should be confirmed. This is a general purpose product not designed or intended for any specific application.



Alien Technology 18220 Butterfield Blvd. Morgan Hill, CA 95037 866-RFID NOW www.alientechnology.com