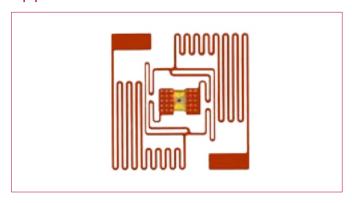


The Alien Technology® ALN-9529 Squiggle®-SQ Inlays are small, general purpose RFID inlays optimized for use in item level tagging of pharmaceuticals, high value consumables, and similar item level applications.

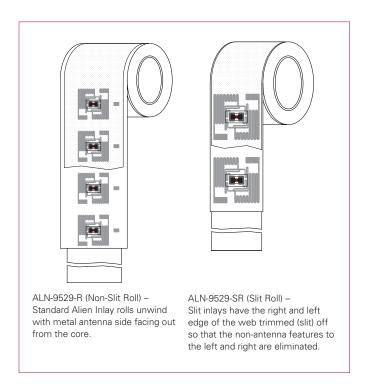


Based on Alien®'s break through Alien H2 UHF RFID IC and a high-performance antenna design, the ALN-9529 delivers industry leading EPC Gen 2 range and reliability at competitive prices. ALN-9529 inlays are also "globally" compliant, enabling inlays that operate consistently across the diverse frequencies of the Americas, Europe, Middle East, Asia, and Africa.

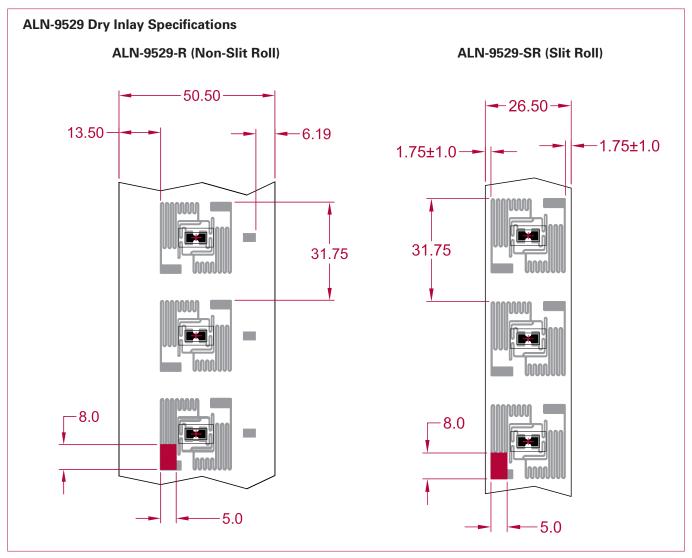
The ALN-9529 is the smallest member of Alien's family of Alien H2 powered UHF RFID inlays. Other members include: the Squiggle inlay (ALN-9534), Alien's iconic industry best general purpose inlay for use in pallet and case tagging applications; the 2x2 inlay (ALN-9534), an omni-directional inlay for baggage and apparel: and the M inlay (ALN-9554), optimized for use in tagging plastic totes, pallets and other reusable asset. All members of the family are manufactured using Alien's patented Fluidic Self Assembly (FSA™) process, which delivers high inlay volumes at low unit costs.

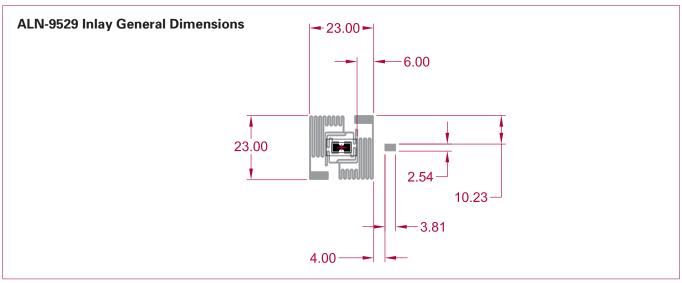
Features

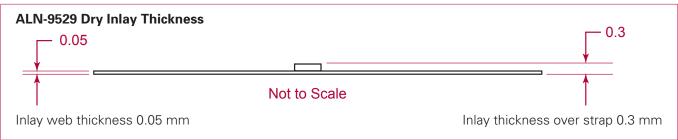
- > EPC Class 1 Gen 2 / ISO 18000-6C
- > Exceptional range for an item level inlay
- High-speed programming for seamless manufacturing integration
- > Operates at all global frequencies 860–960 MHz
- Available in high-yield, high-capacity rolls for highvolume converting processes
- > Alien H2 IC

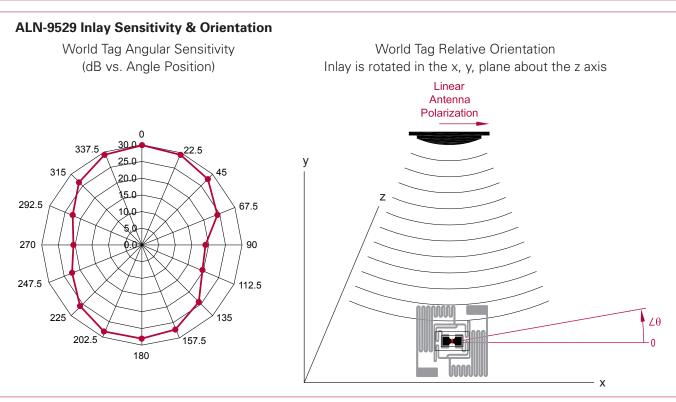


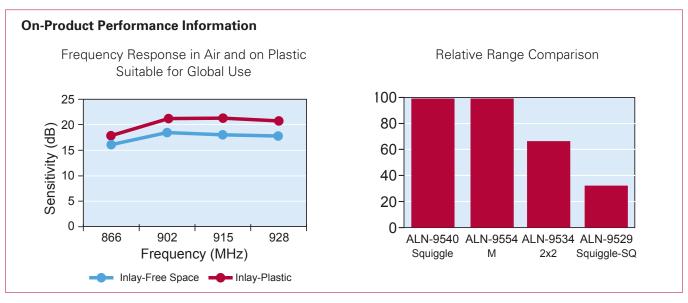






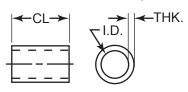








ALN-9540 Roll Format/Finishing



Slit Roll Core Dimensions	Non-Slit Roll Core Dimensions
CL = 31.75 (1.25")	CL = 50.80 (2.00")
THK = 6.35 ± .3 (.25 ± .01")	THK = $6.35 \pm .3 (.25 \pm .01")$
I.D. = $152.4^{+3.8}_{-1.2}$ (6.00 $^{+.15}_{05}$ ")	I.D. = $152.4^{+3.8}_{-1.2}$ (6.00 $^{+.15}_{05}$ ")
Material: chipboard or Alien approved material	

Roll Finishing	
Leader Length	4,000 +/- 400mm
Interleaf Material	Parchment
Number of Inlay Units Per Roll	10,000 +/- 10%
Roll Labeling Data	Roll Number, Quantity
Roll Leader & Interleaf Width	114.3 +/- 1.5 mm

Environmental Specifications	
Shelf Life	2 Years
Recommended Storage Conditions	-25C to +50C 20% to 90% RH Non-condensing
Drop Resistance	Per ASTM D5276
RoHs	2002/95/EC Compliant

RF Protocol	
ISO/IEC 18000-6C	
EPC Class 1 Gen 2	
EPC Memory Size	96 Bits
Access Control	32 Bits
Kill Code	32 Bits
Programming Cycles	10,000 Write Cycles
Product Specifications	
Worldwide Operating Frequencies	860–960 MHz (US, Europe, Asia, & Japan)
Minimum Inlay Antenna Size	23 x 23 mm
ESD & Inlay Handling	

Note: Inlays are sensitive to ESD. Observe standard practices to keep environmental static charge to a minimum.

1.5 kV minimum

1.5 kV minimum

Human Body Model

Charged Device Mode

