



915MHz EPC CLASS 1 RFID TAGS



ALL-9338 (Squiggle 1.1)



ALL-9340 (Squiggle 2.1)



ALL-9440 (Squiggle 2.2)



ALL-9350 (I)



ALL-9354 (M)



ALL-9334 (2x2)



ALL-9460 (Omni-Squiggle 1.2)

A leading supplier of EPC tags, Alien Technology® manufactures a range of EPC Class 1 “Encode & Apply” inlays and labels. Alien’s EPC Class 1 tags have 96-bits of user programmable memory and are designed to operate under U.S. FCC Part 15 as well as other similar global regulations. Alien offers a growing portfolio of designs and form factors delivering optimal performance in a variety of applications.

ALL-9338 (Squiggle 1.1)

- The industry’s EPC Class 1 price/performance benchmark
- Ideal for very low cost, general purpose use on corrugate, plastic and paper
- Small form factor for labels as small as 4x1 inches

ALL-9340 (Squiggle 2.1)

- Broad-band EPC Class 1 design for very high performance at a low cost
- High performance solution for most packaging including products containing metal and water
- Small form factor for labels as small as 4x1 inches

ALL-9354 (M)

- High gain general purpose for use on corrugate, plastic and paper
- Small form factor for labels as small as 4x2 inches

ALL-9350 (I)

- Very high gain for use in a controlled orientation
- General purpose use on corrugate, plastic and paper with challenging content

ALL-9334 (2x2)

- General purpose for use on corrugate, plastic and paper
- Designed for applications such as airline baggage, apparel and plastic trays
- Small form factor for labels as small as 2x2 inches

ALL-9440 (Squiggle 2.2)

- The industry’s EPC Class 1 Gen 2 price/performance benchmark
- Very high performance solution for most packaging including products containing metal and water
- Small form factor for labels as small as 4x1 inches

ALL-9460 (Omni-Squiggle 1.2)

- High performance, omni-directional design
- Very high performance solution for most packaging including products containing metal and water
- Form factor supports 3x3 labels

PRODUCT SPECIFICATIONS

OPERATING FREQUENCY:

860-960MHz – optimized for 915MHz ISM Band

OPERATING MODE:

Passive

MEMORY: Gen1 tags	128 bits total
User Programmable	96 bits
CRC	16 bits
Lock Code	8 bits
Kill Code	8 bits

MEMORY: Gen2 tags	240 bits NVM
EPC size	96 bits
Protocol Control bits	16 bits
Lock Bits	10 bits
Kill Bit	1 bit
Access Code	32 bits
Kill Code	32 bits
Reserved	53 bits

MINIMUM PROGRAMMING CYCLES:

Gen2 tags	10,000 write/erase cycles
Gen1 tags	> 25

OPERATIONAL TEMPERATURE RANGE:

Gen2 tags	-25° C to +65° C
Gen1 tags	-25° C to +70° C

RECOMMENDED BENDING RADIUS:

70+ mm

THICKNESS:

Gen2 tag: Over IC	0.42mm
Gen1 tag: Over strap	0.41mm
Over antenna	0.20mm

LABEL DIMENSIONS

ALL-9338 - "Squiggle™" 1.1	98.2 x 12.3 mm
ALL-9340 - "Squiggle™" 2.1	98.2 x 12.3 mm
ALL-9354 - "M"	98.4 x 32.8 mm
ALL-9350 - "I"	152.5 x 15.9 mm
ALL-9334 - "2x2"	47.6 x 50.8 mm
ALL-9440 - "Squiggle™" 2.2	98.2 x 12.3 mm
ALL-9460 - "Omni-Squiggle™" 1.2	76.2 x 76.2 mm

LABEL PITCH ON WEB

ALL-9338 - "Squiggle™" 1.1	15.9 mm
ALL-9340 - "Squiggle™" 2.1	15.9 mm
ALL-9354 - "M"	35.9 mm
ALL-9350 - "I"	19.1 mm
ALL-9334 - "2x2"	54.0 mm
ALL-9440 - "Squiggle™" 2.2	15.9 mm
ALL-9460 - "Omni-Squiggle™" 1.2	79.4 mm

WEB WIDTH

ALL-9338 - "Squiggle™" 1.1	101.5 mm
ALL-9340 - "Squiggle™" 2.1	101.2 mm
ALL-9354 - "M"	101.6 mm
ALL-9350 - "I"	155.7 mm
ALL-9334 - "2x2"	54.0 mm
ALL-9440 - "Squiggle™" 2.2	101.2 mm
ALL-9460 - "Omni-Squiggle™" 1.2	79.4 mm

TYPICAL ROLL QUANTITIES

ALL-9338 - "Squiggle™" 1.1	14,500
ALL-9340 - "Squiggle™" 2.1	14,500
ALL-9354 - "M"	7,500
ALL-9350 - "I"	14,500
ALL-9334 - "2x2"	7,500
ALL-9440 - "Squiggle™" 2.2	14,500
ALL-9460 - "Omni-Squiggle™" 1.2	7,500
ALL-9338-TST - "Squiggle™" 1.1 test pack	2,000
ALL-9340-TST - "Squiggle™" 2.1 test pack	2,000
ALL-9354-TST - "M" test pack	2,000
ALL-9350-TST - "I" test pack	2,000
ALL-9334-TST - "2x2" test pack	2,000
ALL-9440-TST - "Squiggle™" 2.2 test pack	2,000
ALL-9460-TST - "Omni-Squiggle™" 1.2 test pack	2,000



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