JEWELRY | PASSIVE RAIN RFID

Tamper response in a jewelry-ready label.



AU-TE-JW-7538 | AERO UHF TAMPER-EVIDENT JEWELRY LABEL

LABEL DIE CUT	ANTENNA	FREQUENCY	EPC MEMORY
75 x 38 mm	66 x 12 mm	860-960 MHz	448 bits

Electrical characteristics

Model-level specification

Chip	Custom chip
International standards	EPC Class 1 Gen 2 | ISO/IEC 18000-6C Type C
Frequency band	860-960 MHz
Operating mode	Passive
Read/write endurance	100,000 write/program cycles; 20-year data retention
Base material	PET
Delivery format	Label, supplied on reel
Quantity per reel	2,000 or 2,500 pcs

Memory configuration

Read/write memory areas

MEMORY AREA	CAPACITY / ACCESS
EPC memory	448 bits | Read and write
User memory	112 bits

Layer construction

Exploded from face to liner

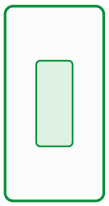
01 FACE	Bright white PET
02 LAMINATION	Pressure-sensitive adhesive
03 RF INLAY	Custom chip + antenna on PET
04 INLAY BOND	Hot-melt adhesive
05 CARRIER	Release liner

- **Base material:**
  50 um PET carrier
- **Antenna:**
  10 um etched aluminum on PET
- **Antenna footprint:**
  66 x 12 mm
- **Operating mode:**
  Passive UHF RFID

Label format & dimensions

Mechanical overview

FRONT FACE



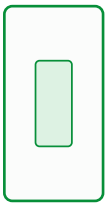
75 x 38 mm

Die-cut label size

Printable area:

14 x 33 mm

BACK FACE



75 x 38 mm

Die-cut label size

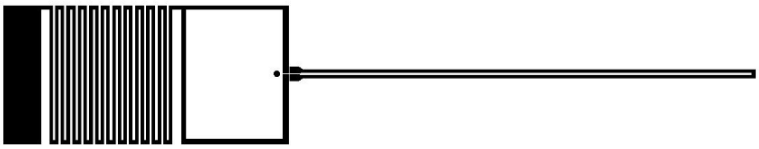
Printable area:

14 x 33 mm

INLAY / ANTENNA: 66 x 12 mm overall. Fold panel and tail sub-dimensions are not separately specified.

Antenna reference

Illustrative artwork



TAMPER RESPONSE

Tail-cut tamper sensing changes tag data, helping deter counterfeiting and theft.

READ RESPONSE

First 2 bytes: 0804 intact; 0004 tail cut.

JEWELRY OPERATIONS

Jewelry RFID can improve accuracy, efficiency and traceability, with more timely stock visibility across operations.

Print area: 14 x 33 mm. Confirm fold/tail split on final converted artwork.