AD-251r6-P ETSI

Overview

Frequency Band
UHF 860 - 960 MHz

Chip
Impinj Monza R6-P

Antenna Dimensions
95 x 14.5 mm / 3.74 x 0.57 in

International Standard
ISO/IEC 18000-63 Type C

Industry Segments
Food

Applications
Microwave Safe
Asset Tracking
Supply Chain Management

RoHs
EU Directive 2011/65/EU and 2015/863 Compliant

Microwave-safe UHF tags

As part of Avery Dennison's exclusive WaveSafe™ product line, AD-251r6-P inlays have been developed for providing a true end-to-end solution for the food industry.

By avoiding arcing or excessive heating when used as recommended if subjected to a microwave environment, AD-251r6-P inlays provide a perfect solution for food safety, compliance, and high-performance item-level tracking applications.

AD-251r6-P inlays are available in two, unique WaveSafe™ designs; AD-251r6-P ETSI and AD251r6-P FCC. Compliant with TÜV Rheinland® T-Mark certification standards, both inlays have the capability to withstand up to 5 minutes of microwave cook time if used in accordance with established parameters.

Both designs come with Monza r6-P chips from Impinj featuring 128/96-bit of EPC memory, 32/64-bit of User Memory and a 48-bit unique serialized TID Number. Delivery format is Pressure Sensitive Label.

Like all RFID products from Avery Dennison, AD-251r6-P inlays are manufactured according to the industry's highest quality standards, as confirmed by the RFID Lab at Auburn University: The inspection body awarded Avery Dennison its first comprehensive and significant ARC accreditation for quality.

Technical features

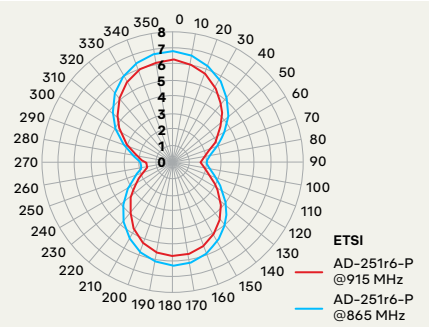
Chip	Impinj Monza R6-P
EPC and User Memory	128-bit / 96-bit and 32-bit / 64-bit
TID Memory	96-bit / 48-bit unique serial number
Product Code	RF100497
Delivery Format	Label / sticker
Die-cut Dimension	98 x 18 mm / 3.90 x 0.70 in
Inlay Substrate	PET
Face Sheet	White PET
Total Thickness	14 - 16 mils / 349 - 400 microns
Standard Pitch	31.75 mm / 1.25 in
Web Width	105 mm / 4.125 in
Core Size	76 mm / 3 in
Quantity / Reel	5487 pcs/reel
Operating Temperature	-40 °C to 85 °C -40 °F to 185 °F
On-Metal	Non metal

Recommended microwave safe use parameters

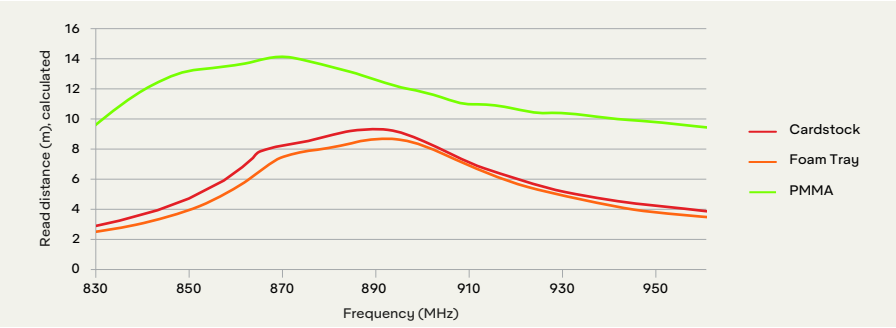
Microwave Wattage	Maximum Cook Time
950W	5 minutes
1200W	4 minutes
1800W	2 minutes

- Label placement on the side of packaging.
- A minimum of 8 ounces of product with temperature ranging from frozen to chilled.
- Products to include meat, fish, and prepared meals.
- Packaging material to include plastic (e.g. PET) with plastic wrap, plastic with plastic lid, or cardboard .
- Power setting up to and including 100% power for up to and including 5 minutes on the wattage set forth in the following table.

Orientation sensitivity



Read range



All graphs are indicative: performance in real life applications may vary.

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RoHS

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