# AD-680r6-P

## Overview

**Frequency Band**
UHF 860 – 960 MHz

**Chip**
Impinj Monza R6-P

**Antenna Dimensions**
50 x 50 mm / 1.97 x 1.97 in

**International Standard**
ISO/IEC 18000-63 Type C

**Industry Segments**
Logistics

**Applications**
Asset Tracking
Package tracking

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



## Orientation sensitivity and excellent edge read performance

AD-680r6 and AD-680r6-P inlays from Avery Dennison features a unique, slotted-loop (sloop) design which provides orientation insensitivity and outstanding edge read performance for a wide variety of UHF RFID tagging applications. The design is available in two chip formats: Monza r6 and Monza r6-P.

Leveraging the design's unique characteristics, AD-680r6 and AD-680r6-P are a perfect fit for specific applications in supply chain management, asset tracking, and package tracking.
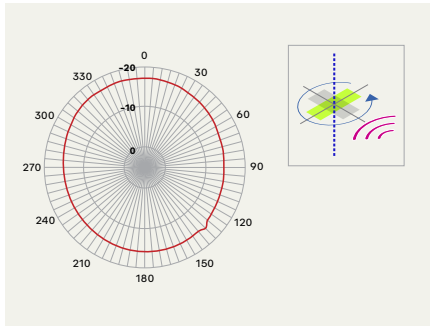
AD-680r6 with the Impinj Monza R6 IC comes with 96-bit of EPC memory, while AD-680r6-P with the Impinj Monza R6-P is available with 128/96-bit of EPC memory and 32/64-bit of User memory. Both versions have a 48-bit unique serialized TID Number and are available in Dry Inlay and Wet inlay delivery formats.

Like all RFID products from Avery Dennison, AD-680r6 and AD-680r6-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.
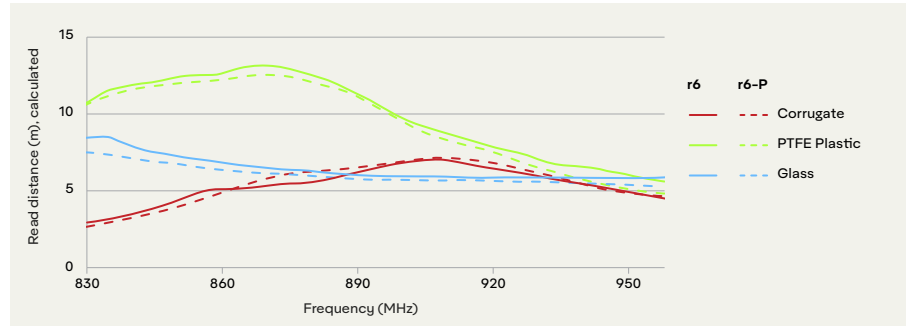
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rfid.averydennison.com

# Technical features

| | | |
|---|---|---|
| **Chip** | Impinj Monza R6-P | |
| **EPC and User Memory** | 128-bit and n/a | |
| **TID Memory** | 96-bit / 48-bit unique serial number | |
| **Product Code** | RF600684 | RF600685 |
| **Delivery Format** | Dry inlay | Wet inlay |
| **Die-cut Dimension** | - | 53 x 53 mm / 2.09 x 2.09 in |
| **Inlay Substrate** | PET | |
| **Total Thickness** | 9 - 10 mils / 229 - 254 microns | 10 - 12 mils / 254 - 305 microns |
| **Standard Pitch** | 60.33 mm / 2.375 in | |
| **Web Width** | 60 mm / 2 in | |
| **Core Size** | 76 mm / 3 in | |
| **Quantity / Reel** | 7500 pcs/reel | |
| **Operating Temperature** | -40 °C to 85 °C<br>-40 °F to 185 °F | |
| **On-Metal** | Non metal | |

# Orientation sensitivity

# Read range



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

## Contact information
rfid.averydennison.com/contact
North America:  +1-866-903-7343 (toll free US)
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**RoHS**

**Warranty:** Please refer to Avery Dennison standard terms and conditions: **rfid.averydennison.com/termsandconditions**

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

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