

# AD-223



## AD-223 RFID Inlays

- All-purpose transponder tuned for global supply chain application use
- Best read range performance in the AD-22x family
- Write range approaches read range
- Tight pitched high volume rolls
- Available in high yield/capacity rolls which integrate seamlessly into high-volume converting processes



Electrical Characteristics	
Operating Frequency	Global [860 - 960MHz]
Integrated Circuit [IC] – Manufacturer & IC Name	Impinj Monza 3
RF Communications Protocol	ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2
Memory	96 bits EPC

Environmental	
Operating Temperature	-40°F to 185°F [-40°C to 85°C]
RoHS	Designed to comply with EU Directive 2002/95/EC

Inlay Roll Format / Finishing	
Un-wind direction	Inlay-side out
Core size with adaptor insert	6 in [152 mm]
Maximum roll outer diameter [not to exceed]	12 in [305 mm]

Part Number	600192	600193	600194
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] x 0.321 in [8.15mm]		
Die-cut dimensions		3.885 in [98.68] x .44 [11.18mm]	
Inlay-to-liner adhesive		S-490 (Fasson®)	
Liner material		40# SCK (Fasson®)	
Total thickness over chip [typical]	11.5 mils [292 microns]	14 mils [356 microns]	11.5 mils [292 microns]
Standard pitch	.625 in [15.88mm]		
Standard web widths	4.75 in [120.65mm]	4.125 in [104.78]	3.875 in [98.43mm]
Inlay substrate material	PET		
Quality assurance	100% read tested with out-of tolerance inlay marked	100% edit and replace	100% read tested with out-of tolerance inlay marked
Average number of units per roll	20,000		
Rev	03	01	03

**CARE AND HANDLING** RFID inlays are sensitive to ESD. Observe standard practices to keep environmental 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.

**Warranty** Please refer to Avery Dennison RFID standard terms and conditions. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

**PRODUCT CHANGES** Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice.

\* Trademark Statement Avery Dennison, S490 and Fasson® are trademarks of Avery Dennison Corporation. For the most recent information on Avery Dennison products, visit [www.rfid.averydennison.com](http://www.rfid.averydennison.com).

### Avery Dennison RFID

North America

866 903 RFID (7343)

Mexico +55 5093 0100

Europe +352 50 46 50 1

Asia Pacific +852 9163 1313

[rfid.info@averydennison.com](mailto:rfid.info@averydennison.com)

[www.rfid.averydennison.com](http://www.rfid.averydennison.com)