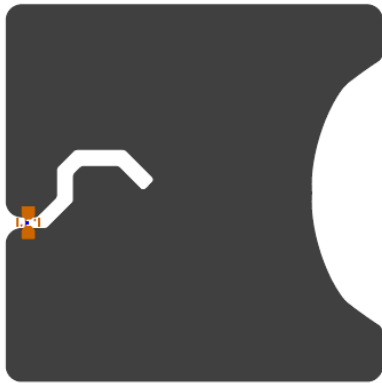


AD-641



Drawing not to scale

AD-641 RFID Inlays

- The AD-641 inlay is designed for case and pallet level asset management applications.
- Incorporates NXP pre-programmed silicon for added validation and verification security against theft and counterfeiting.
- Sloop technology for strong performance at almost any read angle
- Optimized read range to support targeted query in dense read environments



Electrical Characteristics	
Operating Frequency	Global (860 - 960MHz)
Integrated Circuit [IC] – Manufacturer & IC Name	NXP G2XL/XM
RF Communications Protocol	ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2
Memory	240 bits EPC memory with an additional 512 bit user memory option

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

Inlay Roll Format / Finishing	
Un-wind direction	Inlay-side out
Core size with adaptor insert	3 in [76.2 mm]
Maximum roll outer diameter [not to exceed]	12 in [305 mm]

Part Number	600225 / 600228	600227 / 600229
Antenna dimensions, [CDxMD]	2.76 in [70 mm] x 2.76 in [70 mm]	
Die-cut dimensions	2.881 in [73.18 mm] x 2.881 in [73.18 mm]	
Inlay-to-liner adhesive	S-490 (Fasson®)	
Liner material	40# SCK (Fasson®)	
Total thickness over chip [typical]	11 mils [279 microns]	14 mils [356 microns]
Standard pitch	3.125 in [79 mm]	
Standard web widths	4 in [101.6 mm]	3.25 in [82.55mm]
Inlay substrate material	PET	
Quality assurance	100% read tested with out-of-tolerance inlay marked	100% edit and replace
Average number of units per roll	7,500	7,500
Rev	01	01

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.

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