

# AD-840

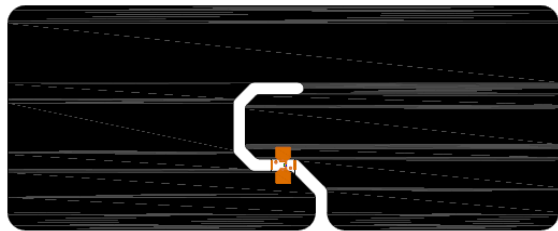


## AD-840 RFID Inlays

- Powerful read range performance in rough industrial automation applications such as aviation baggage handling
- Durable antenna construction reduces risk of antenna disconnect due to damage by virtue of the broad antenna structure\*
- 240 bit EPC memory with an additional 512 bit user memory option



\* Antenna image (Sloop) is a trademark of Avery Dennison Corporation



Drawing not to scale\*

Electrical Characteristics		
Operating Frequency	Global (860 - 960MHz)	
Integrated Circuit [IC] – Manufacturer & IC Name	NXP G2XL	
RF Communications Protocol	ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2	
Memory	600176: 240 bits EPC / 600177: 240 bits EPC+512 bits User Memory	
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	600176	600177
Antenna dimensions, [CDxMD]	1.496 in [38 mm] x 3.701 in [94mm]	
Die-cut dimensions		1.621 in [41.18mm] x 3.826 in [97.18mm]
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	5 in [127mm]	
Standard web widths	2.5 in [63.5 mm]	1.871 in [47.53mm]
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	4,000	
Rev	04	05

**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.

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