

AD-224



AD-224 RFID Inlays

- 240 bit EPC memory with an additional 512bits user memory option
- Ideal for life cycle verification applications such as e-pedigree and brand authentication
- All-purpose transponder tuned for global supply chain application use
- Global frequency operation
- Available in high yield/capacity rolls which integrate seamlessly into high-volume converting processes



AD-224 G2XL version



AD-224 G2XM version



Drawings not to scale

Electrical Characteristics	
Operating Frequency	Global (860 - 960MHz)
Integrated Circuit [IC] – Manufacturer & IC Name	NXP G2XL or NXP G2XM
RF Communications Protocol	ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2
Memory	NXP G2XL: 240 bits EPC / NXP G2XM: 240 bits EPC +512 bits user memory

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	600169	600179	600170	600180	600178	600181
Chip	G2XL	G2XM	G2XL	G2XM	G2XL	G2XM
Antenna dimensions, [CDxMD]	3.741 in [95.03 mm] x 0.3208 in [8.1476 mm]					
Die-cut dimensions			3.885 in [98.68 mm] x .44 in [11.18mm]			
Inlay-to-liner adhesive			S-490 (Fasson®)			
Liner material			40# SCK (Fasson®)			
Total thickness over chip [typical]	13.52 mils [343 microns]		14 mils [356 microns]		13.52 mils [343 microns]	
Standard pitch	.625 in [15.88 mm]					
Standard web widths	4.75 in [120.65 mm]		4.125 in [104.78 mm]		3.875 in [98.43 mm]	
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	05	02	06	04	02	02

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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