

AD-824



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Antenna Size:
1.181 x 1.969 in
[29.99 x 50mm]

Features:

- Stackable inlay - Breakthrough antenna design enables a high read rates in item level applications where tags may be stacked within millimeters of each other
- 240 bit EPC memory with an option for 512 bits user memory
- Factory programmed and locked unique ID
- Available in high yield / high capacity rolls which integrate seamlessly into high-volume converting processes

Market Applications: Retail, Supply Chain

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	240 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 Details for AD-824 (Total 2 Parts)

Part Number	600171
Chip	NXP G2XL
Antenna dimensions, [CDxMD]	1.181 in [29.99mm] x 1.969 in [50mm]
Die-cut dimensions	N/A
Inlay-to-liner adhesive	N/A
Liner material	N/A
Total thickness over chip [typical]	11 mils [279 microns]
Standard pitch	2.5 in [63.5mm]
Standard web widths	1.653 in [42mm]
Inlay substrate material	PET
Quality assurance	100% read tested with out-of-tolerance inlay marked
Average number of units per roll	5,000
Rev	05

Part Number	600172
Chip	NXP G2XL
Antenna dimensions, [CDxMD]	1.181 in [29.99mm] x 1.969 in [50mm]
Die-cut dimensions	1.306 in [33.16mm] x 2.094 in [53.18mm]
Inlay-to-liner adhesive	S-490 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip [typical]	14 mils [356 um]
Standard pitch	2.5 in [63.5mm]
Standard web widths	1.431 in [36.34mm]
Inlay substrate material	N/A
Quality assurance	100% edit and replace
Average number of units per roll	5,000
Rev	05

CARE AND HANDLING RFID inlays are sensitive to ESD. Observe standard practices to keep environment static charge to a minimum.

APPLICATIONS This product should be tested by the customer/user thoroughly under end use conditions to ensure the 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.

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