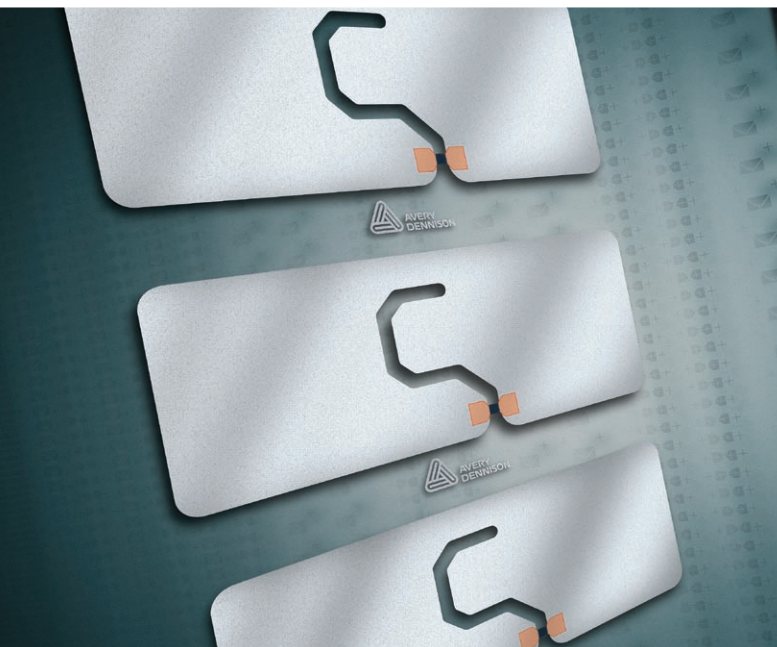


AD-820 AD-821




AD-820 & 821 RFID Inlays

- Offers far-field performance on RF-friendly materials & metal items enclosed in corrugate in a compact form factor
- Built for rugged application survival
- Available in high-yield/high capacity rolls which integrate seamlessly into high-volume converting processes



| RF Features | |
|---------------------------|---|
| Optimized frequency range | AD-820 FCC (902-928 MHz) AD-821 ETSI (865-868 MHz) |
| Mode of operation | Passive (battery free) |

| Protocol and Memory | |
|---------------------|------------------------------------|
| Protocol | ISO/IEC 18000-6C EPCglobal C1G2 |
| Memory | 96 bit EPC Number |

| Inlay Roll Format/Finishing | |
|---|---|
| Un-wind direction |  |
| Core size with adaptor insert | 3 in [76.2 mm] |
| Maximum roll outer diameter (not to exceed) | 13 in [330 mm] |

| Environmental Specifications | |
|--|---|
| Operating temperature | -40°F to +149°F -40°C to +65°C |
| Recommended Storage Temperature and Humidity | 72°F [22.2°C] at 50%RH |
| RoHS | Designed to comply with EU Directive 2002/95/EC |

| Dry Inlay Specifications | Part Number FCC 600099 ETSI 600098 |
|-------------------------------|---|
| Antenna dimensions (CD x MD) | 2.835 in x 1.181 in [72.0 mm] x [30.0 mm] |
| Standard pitch | 1.50 in [38.1 mm] |
| Standard web width | 3.625 in [92.08 mm] |
| Inlay substrate material | Heat-treated PET |
| Thickness over chip (typical) | 11 mils [279 microns] |
| Shelf life | 2 years when stored at 72°F at 50%RH |
| Quality assurance | 100% read tested with out-of-tolerance inlay marked |
| Avg units per roll | 5,000 |

| Pressure-Sensitive Inlay Specifications | Part Number FCC 600100 ETSI 600097 |
|---|--|
| Die-cut dimensions (CD x MD) | 2.959 in x 1.305 in [75.15 mm] x [33.15 mm] |
| Standard pitch | 1.50 in [38.1 mm] |
| Standard web width | 3.209 in [81.51 mm] |
| Inlay-to-liner adhesive | S-490 (Fasson®) |
| Liner material | 40# SCK (Fasson®) |
| Total thickness over chip (typical) | 14 mils [356 microns] |
| Shelf life | 1 year when stored at 72°F at 50% RH |
| Quality assurance | 100% edit and replace |
| Avg units per roll | 5,000 |

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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