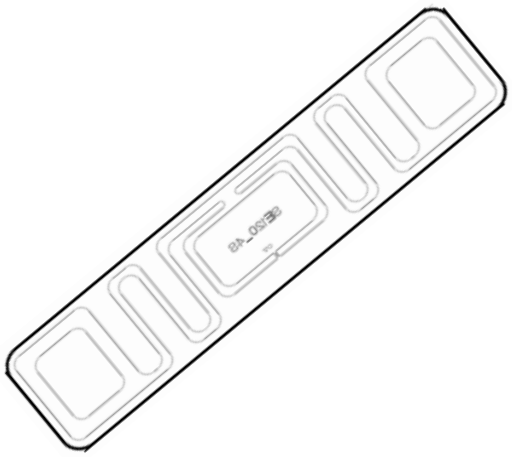
RADIOFORCE

DATA SHEET



RFO RECY 7217

UHF RFID Paper Label

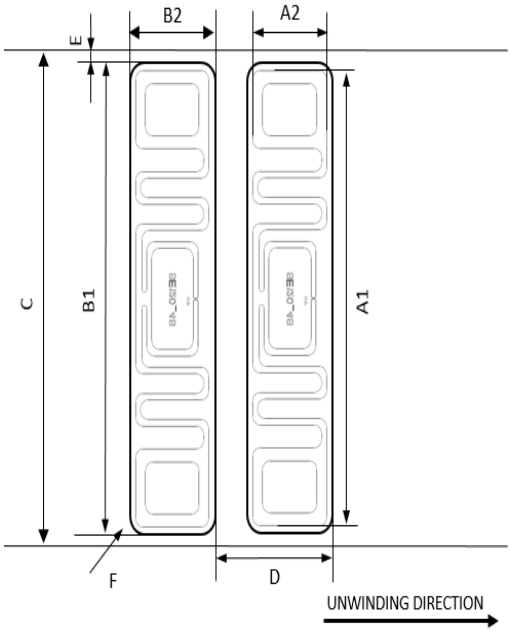
Product Description	RFO RECY 7217

The AGX RECY Tag is a recycable RFID Tag. Has no plastic substrate inside and it is 100% paper based.
Clean & green manufacturing through recyclability of the material. Another highlight of this Tag is the low carbon footprint.

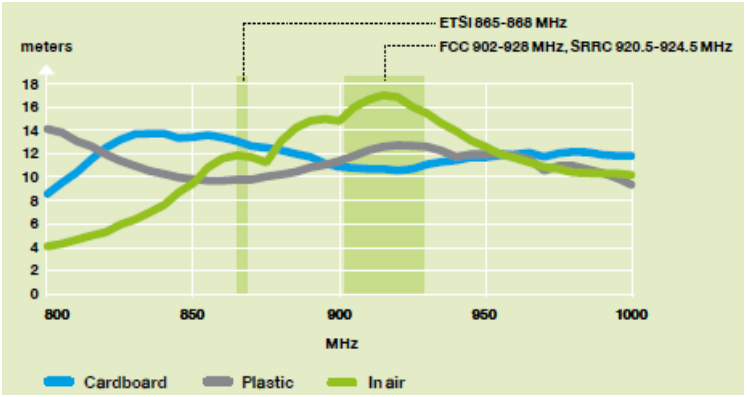
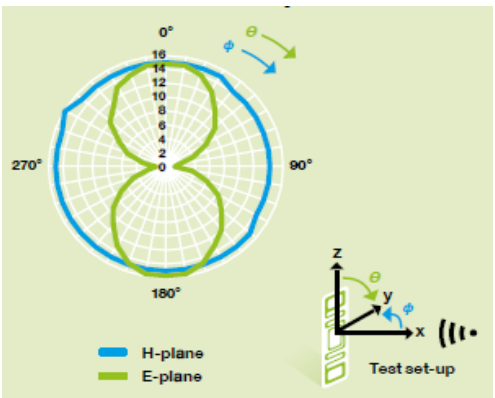
Standard Features for all type of AGX RECY Tags:
- Standard delivery format self-adhesive die-cut tag (paper wet inlay)
- 100% yield on standard reels (faulty tags have been replaced)
- Mid gloss face paper (= RECY antenna substrate), suitable for thermal transfer printing with selected ribbons
- FSC certification for the paper + process targeted Q4/2020
- Reliability proven (more details later in the presentation) to be on industry standards (TH, TC, Bending tests)
- Paper substrate thickness 101 microns (current standard products -> thinner substrates version on the product development roadmap)
- AGX RECY Tags can be recycled in paper and cardboard recycling process.
- The Dry Inlay (without adhesive) product is biodegradable and compostable

Physical Specifications

Material	White woodfree paper, 101 um
Adhesive	Permanent PSA
Tag Layout	Sizes in mm & Tolerance in mm



- A1xA2 Antenna size: 70 x 15 (± 0,5)
- B1xB2 Die-cut size: 72 x 17 (± 0,5)
- C Web width: 75 (± 1,0)
- D Pitch lenght (MD): 20,32 (± 0,5)
- E Die-cut to web edge: 1,5 (± 1,0)
- F Radius: 2

RF Specifications	
Protocol	EPC Class 2 Gen2 - ISO 18 000-63
Frequency Range (MHz)	860-960 MHz
Chip	NXP UCODE 8
EPC Memory	128 bit
Environmental Specification	
Operating Temperature	-40 °C...+85 °C / -40 °F...+185 °F
ESD voltage immunity	± 2 kV peak HBM
Shelf life: 1 year (from manufacturing date)	+20 °C / +68 °F, 50 % RH
Bending diameter	>50 mm, tension less than 10 N
Reliable	Tag passes all industry tests for reliability • Temperature & Humidity IEC 60068-2-67 • Temperature Cycling JESD22-A104-B • Tag Bending Test Voyantic Bendurance
Sustainable	Paper based, no plastic. No harmful substances in production or assembly • No chemicals required for etching • No carcinogenic substances • No polyurethanes, no nickel
Certifications	Recycability: PTS RH 021/97 & TAPPI UM 213 (mod.) Biodegradability: EN13432, ISO17088, ASTM D6400
Theoretical read range forward	
Orientation sensitivity	
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Typical Applications		
Suitable for metal environment	Automotive	Apparel
Maintenance & Service	Oil & Gas, Offshore	Retail
Industrie & Logistics	Chemical Industry	

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