

TAG SPECIFICATION

ECO Paper Tag

NXP UCODE 9

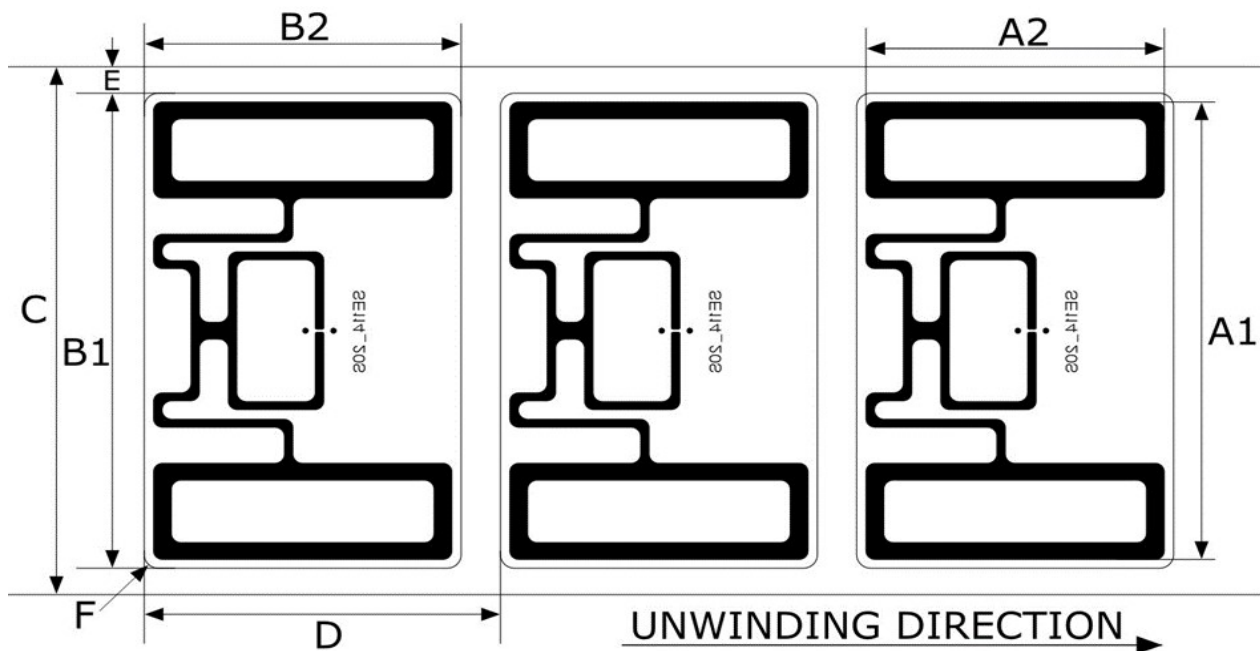


General specification and characteristics

Operating frequency	860-960 MHz
Air interface protocol	EPC Gen2v2.1, ISO 18 000-63
EPC memory	96 bit, 0 bit
Operating temperature (electronics)	-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

Mechanical specification

Dimension	Item	Metric [mm]	Tolerance [mm]	US [in]
A1 x A2	Antenna size	52 x 32	± 0,5	2,047 x 1,260
B1 x B2	Die-cut size	54 x 34	± 0,5	2,126 x 1,339
C	Web width	60	± 1,0	2,362
D	Pitch length per piece (MD)	38,1	± 0,5	1,500
E	Die-cut to web edge	3	± 1,0	0,118
F	Radius	2	± 0,2	0,079



Cross section



Tag characteristics		
Tag format	Die-cut paper label on reel	
Tag face material	White woodfree paper, 88 um	
Tag antenna material	Conductive paste	
Tag adhesive	Permanent PSA	
- Min. labelling temperature	+5 °C	+41 °F
- Service temperature	-5... +60 °C	+23... +140 °F
- Peel min.	3 N / 25 mm (FTM 2)	

Delivery details	
Standard delivery yield	> 99%, Bad tags marked
Minimum delivery yield	> 97%
Appearance	Single row reel form
Reel core	Card board core, inner diameter 76 mm (3 in)
Winding of the reel	Face out
Reel size	3 500 pcs/reel. Diameter: < 204 mm
Package size	21 000 - 28 000 pcs/box.

Compliances



Version history	Document history	Date	Author
1.0	Created	17.5.2021	EMH
1.1	Drawing updated	18.5.2021	EV
1.2	Drawing updated	16.6.2021	AM
1.3	100% yield changed to 97%	16.9.2021	J I
1.4	Logo, delivery yield and disclaimer updated	28.9.2021	MKT
1.5	Bad tag handling updated	26.11.2021	J I
1.6	Box quantity updated	5.1.2022	J I