

TAG SPECIFICATION

ECO Bumper Paper Tag
Sales code 500025
NXP UCODE 8

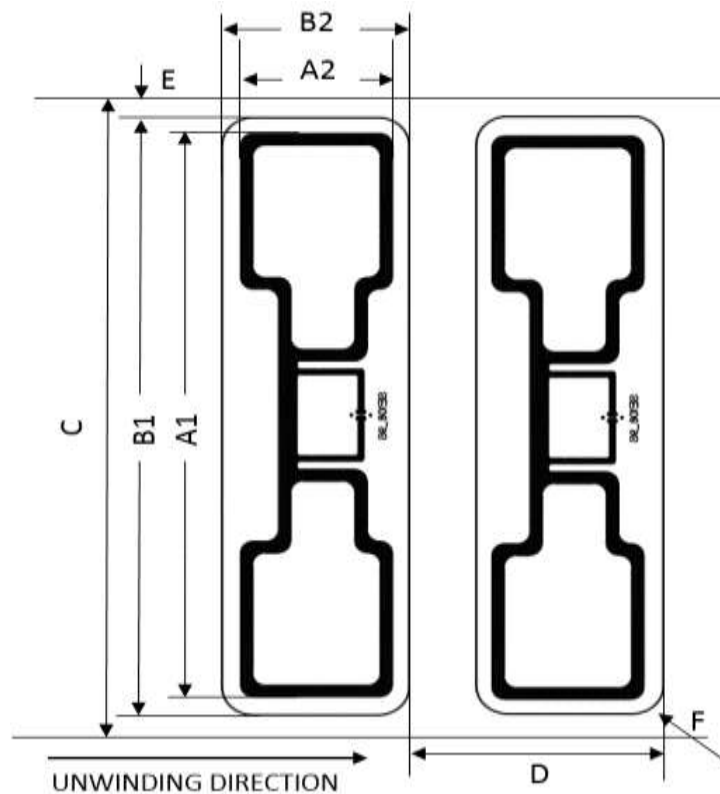


General specification and characteristics

Operating frequency	860-960 MHz
Air interface protocol	EPC Gen2v2, ISO 18 000-63
EPC memory	128 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	94 x 24	± 0,5	3,701 x 0,945
B1 x B2	Die-cut size	97 x 27	± 0,5	3,819 x 1,063
C	Web width	100	± 1,0	3.937
D	Pitch length per piece (MD)	30.48	± 0,5	1.200
E	Die-cut to web edge	1.5	± 1,0	0.059
F	Radius	2		0.079



Cross section



Tag characteristics		
Tag format	Die-cut paper label on reel	
Tag face material	White woodfree paper, 101 um +/- 10%	
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%
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	4 000 pcs/reel. Diameter: < 205 mm
Package size	16 000 pcs/box. Delivery only in full packages.

Compliances



Disclaimer:

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Version history	Document history	Date	Author
1.0	Created Approved	7/2/2018	KV
1.1	Product name revised	8/23/2018	KV
1.2	Unwinding direction revised	11/20/2018	KV
1.3	Design drawing updated	6/26/2019	AM
1.4	Paper thickness tolerance added	6/1/2020	KV
1.5	Logo, delivery yield and disclaimer updated	9/28/2021	MKT