

### DogBone Wet Inlay

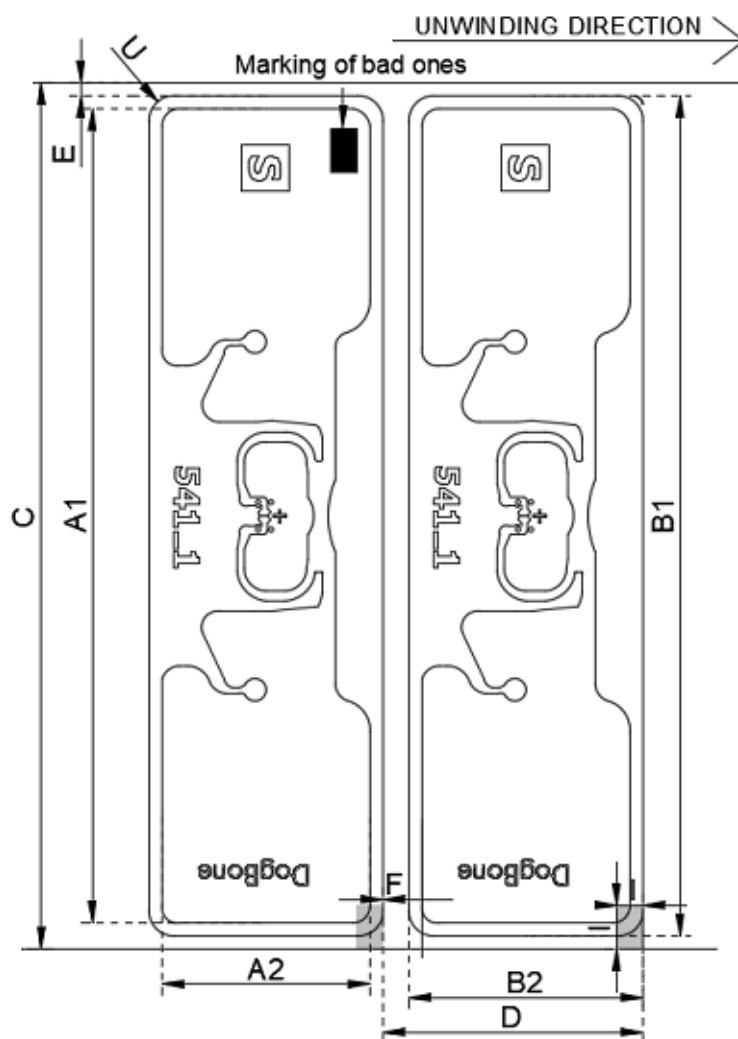
EPC Class 1 Gen 2, ISO 18 000-6C

NXP UCode 8

Sales code 3006910

### Mechanical dimensions

A1 x A2	Antenna size	94 x 24 mm	± 0,5 mm	3,701 x 0,945 in
B1 x B2	Die-cut size	97 x 27 mm	± 0,2 mm	3,819 x 1,063 in
C	Web width	100 mm	± 0,5 mm	3,937 in
D	Pitch, length per piece MD	30 mm	± 1,5 mm	1,181 in
E	Die-cut to web edge	1,5 mm	± 1,5 mm	0,059 in
F	Die-cut to register mark	0 mm	± 1,0 mm	0,000 in
I	Minimum size of register mark (width x length)	5 x 3 mm		0,197 x 0,118 in
U	Corner radius	3 mm		0,118 in



**Electrical characteristics**

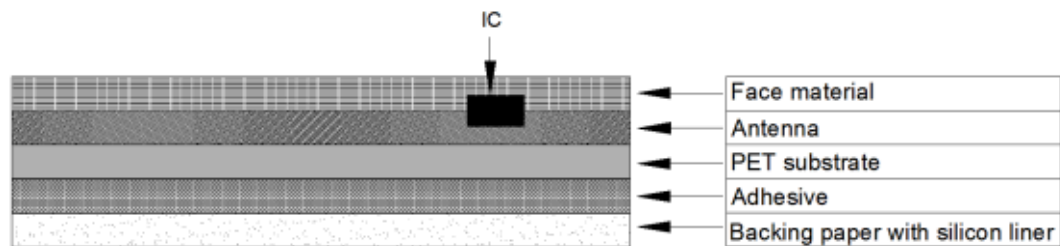
Integrated Circuit (IC)	NXP UCode 8
Air interface protocol	EPC Class 1 Gen 2, ISO 18000-63
Operation frequency	860 - 960 MHz
Memory	128 bit EPC

**General characteristics of transponder**

Operating temperature (electronics parts)	-40 °C / +85 °C	-40 °F / 185 °F
ESD voltage immunity	± 2 kV peak HBM	
Shelf life: From the date of manufacture 2 years in	+20 °C, 50 % RH	68 °F, 50 % RH
Bending diameter (D)	> 50 mm, tension less than 10 N	

**Delivery form**

Transponder format	Die-cut	
Transponder face material	Clear PET 12	
Transponder antenna material	Aluminum	
Transponder adhesive	RA-5	
- labelling temperature	min. +0 °C	min. 32 °F
- usage temperature	-20 °C - 80 °C	-4 °F - 176 °F
- peel	min. 10 N / 25 mm (FTM 1)	
Final inspection	100 %, known faulty ones marked	
Minimum delivery yield	97 %	
Reel Label	Reel number, Material number, Material description, Yield, Qty of functional inlays, Qty of non-functional inlays, Date	

**Structure****Delivery details**

Appearance	Single row reel form
Reel core	Paper core inner diameter 76 mm (3 in)
Winding of the reel	Face out
Reel size	10000 pcs/reel
Package size	20000 pcs/box Deliveries only in full packages.

**Disclaimer:**

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Products classified as FIS samples have the released for production (RFP) product's form factor, RF performance and IC functionality. FIS samples represent the RFP products in most aspects. FIS samples are delivered without any warranty. During the FIS phase, SMARTRAC reserves the right to modify product specifications without notice.

This technical specification replaces all earlier ones.

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