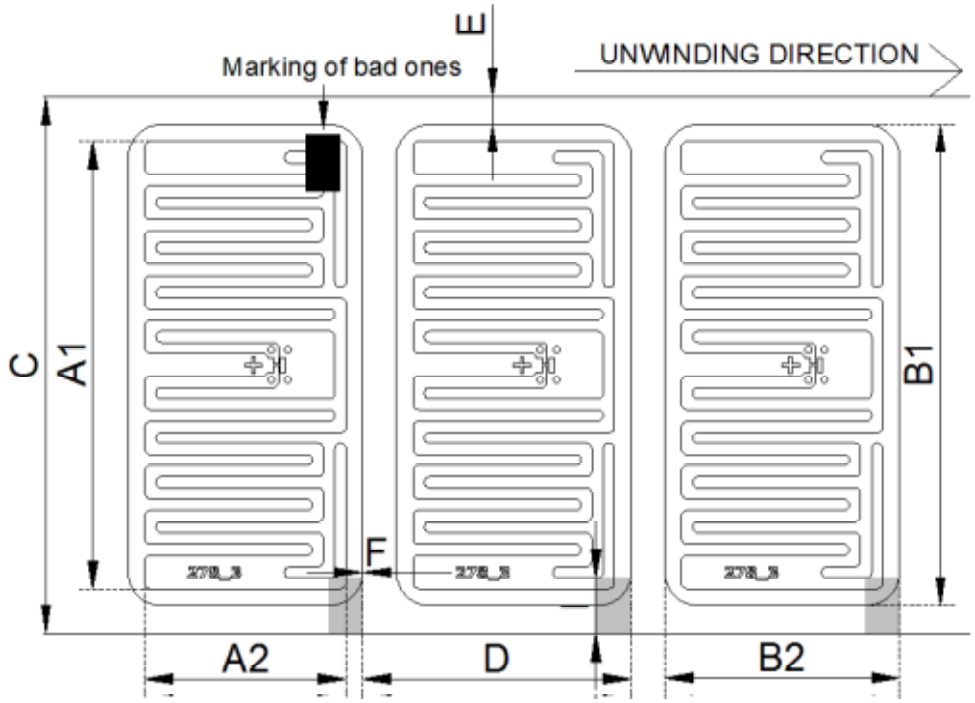
SMARTRAC

Product Specification
Hold

MiniWeb Paper Tag
EPC Class 1 Gen 2, ISO 18 000-6C
NXP U-Code G2iL
Sales code 3002090

Mechanical dimensions

A1 x A2	Antenna size	40 x 18 mm	± 0,5 mm	1,575 x 0,709 in
B1 x B2	Die-cut size	43 x 21 mm	± 0,2 mm	1,693 x 0,827 in
C	Web width	48 mm	± 0,5 mm	1,890 in
D	Pitch, length per piece MD	24 mm	± 1,5 mm	0,945 in
E	Die-cut to web edge	2,5 mm	± 1,5 mm	0,098 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



Electrical characteristics

Integrated Circuit (IC)	NXP U-Code G2iL
Air interface protocol	EPC Class 1 Gen 2, ISO 18 000-6C
Operation frequency	860 - 960 MHz
Memory	128 bit EPC

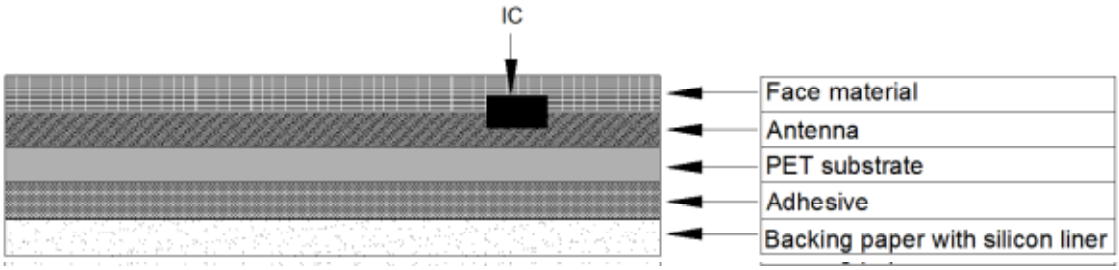
General characteristics of transponder

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	Opaque Matt Paper 79	
Transponder antenna material	Aluminum	
Transponder adhesive	RA-2	
- labelling temperature	min. +5 °C	min. +41 °F
- usage temperature	-40°C - 150 °C	-40°F - 302 °F
- peel	min. 8 N / 25 mm (FTM 2)	
Final inspection	100 %, known faulty ones marked	
Minimum delivery yield	95 %	
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	Card board core, inner diameter 76 mm (3 in)
Winding of the reel	Face out
Reel size	5000 pcs/reel
Package size	10000 pcs/box Deliveries only in full packages.

Disclaimer:
SMARTRAC reserves the right to change its products and services at any time without notice. Our recommendations are based on our best knowledge and experience. As the products are used outside our control we cannot take responsibility for any damage that may be caused when using the product. Use extra care in handling the product.

This technical specification replaces all earlier ones.

Version	2
Update date	22 November 2012
Author	SMARTRAC / k731743
Approved	SMARTRAC / 22.11.2012 k036052



