

Product Specification

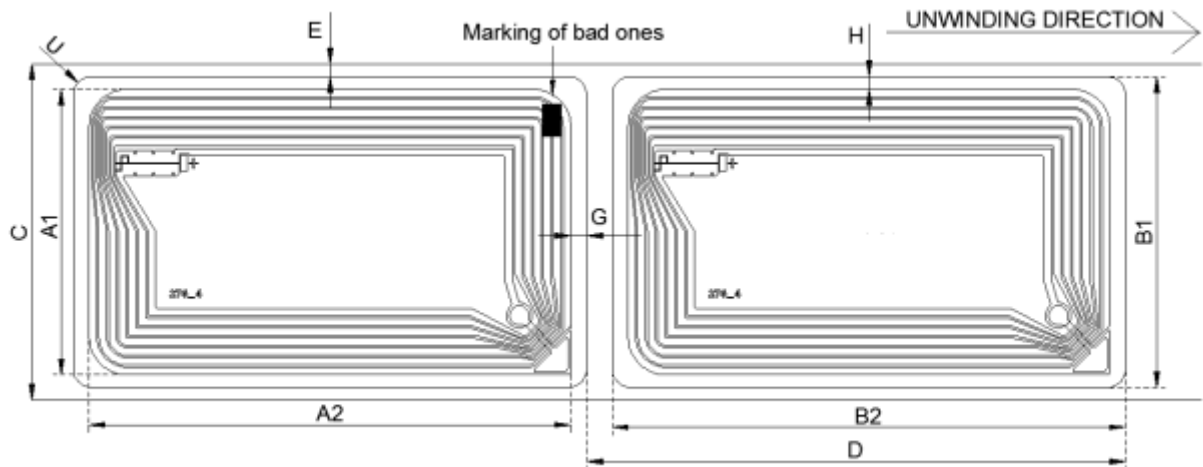
Paper Tag

ISO 15 693, ISO 18 000-3 Mode 1

NXP ICode SLIX2

Mechanical dimensions

A1 x A2	Antenna size	45 x 76 mm	± 0,5 mm	1,772 x 2,992 in
B1 x B2	Die-cut size	49 x 81 mm	± 0,2 mm	1,929 x 3,189 in
C	Web width	53 mm	± 0,5 mm	2,087 in
D	Pitch, length per piece MD	85 mm	± 1,5 mm	3,346 in
E	Die-cut to web edge	2 mm	± 1,5 mm	0,079 in
G	Antenna to die-cut (MD)	2,5 mm	± 1,5 mm	0,098 in
H	Antenna to die-cut (CD)	2 mm	± 1,5 mm	0,079 in
U	Die-cut corner radius	3 mm		0,118 in
	Thickness of the IC	127 µm	± 15 %	
	Overall thickness of transponder package (excluding IC and siliconized paper)	196 µm	± 10 %	
	Thickness of the siliconized paper	56 µm	± 5 %	



Electrical characteristics

Integrated Circuit (IC)	NXP ICode SLIX2
Air interface protocol	ISO 15 693, ISO 18 000-3 Mode 1
Operation frequency	13,56 MHz
Unloaded resonance frequency	14,10 MHz ± 0,35 MHz
Memory	2.5k bits user memory

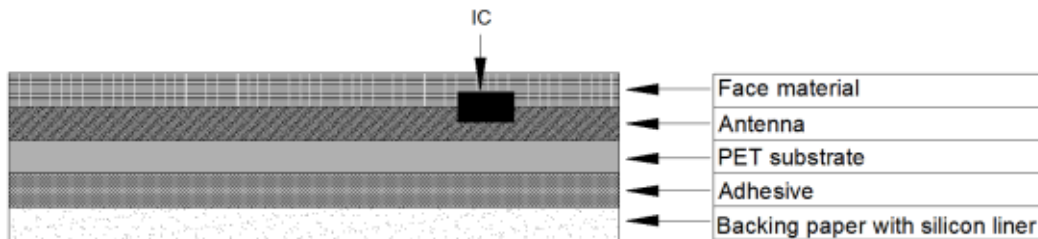
General characteristics of transponder

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	Mid-gloss paper	
Transponder backing material	Siliconized Paper 56	
Transponder antenna material	Aluminum, crimped coil	
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	
Printability	Flexography and TTR with selected ribbons. Do not print over IC area	

Structure



Delivery details

Appearance	Single row reel form
Reel core	Paper core inner diameter 76 mm (3 in)
Transponder alignment	Chip at rear of transponder
Winding of the reel	Face out
Reel size	1500 pcs/reel Diameter: < 305 mm
Package size	3000 pcs/box Deliveries only in full packages.