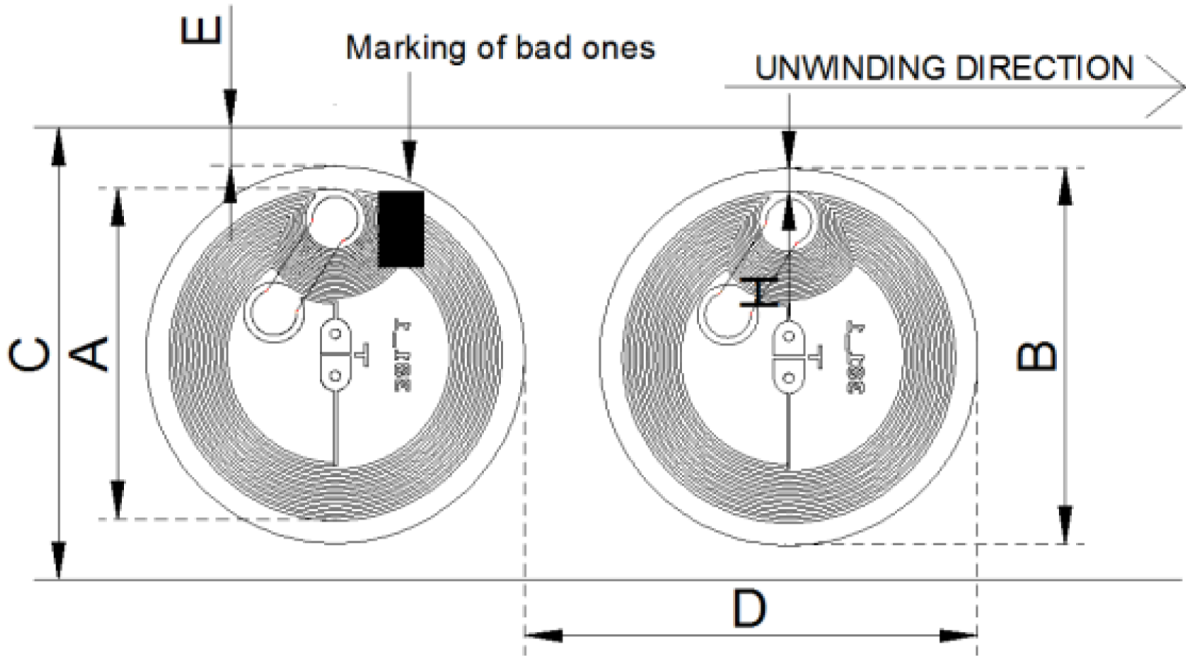


Circus Wet Inlay
ISO 18 000-3 Mode 3
NXP ICode ILT-M (23pF)
Sales code 3002540

Mechanical dimensions

A	Antenna size	22 mm	± 0,5 mm	0,866 in
B	Die-cut size	25 mm	± 0,2 mm	0,984 in
C	Web width	30 mm	± 0,5 mm	1,181 in
D	Pitch, length per piece MD	30 mm	± 1,5 mm	1,181 in
E	Die-cut to web edge	2,5 mm	± 1,5 mm	0,098 in
H	Antenna to die-cut (CD)	1,5 mm	± 1,5 mm	0,059 in
	Thickness of the IC	120 µm	± 15 %	
	Overall thickness of the transponder package (excluding IC and siliconized paper)	111 µm	± 10 %	



Electrical characteristics

Integrated Circuit (IC)	NXP ICode ILT-M (23pF)
Air interface protocol	ISO 18 000-3 Mode 3
Operation frequency	13,56 MHz
Unloaded resonance frequency	TBD
Memory	240 bit EPC + 512 bit

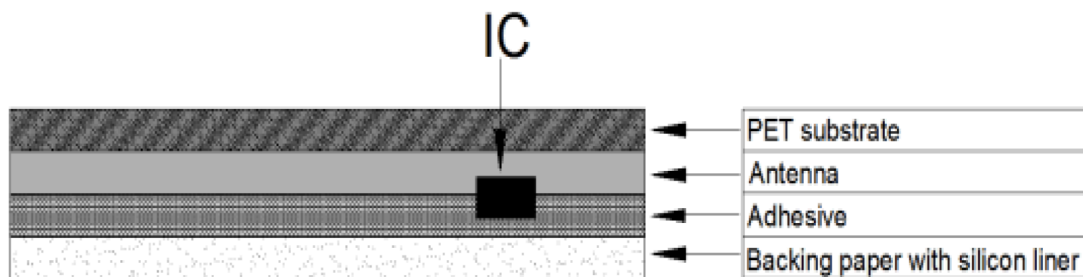
General characteristics of transponder

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 38	
Transponder backing material	Siliconized Paper 56	
Transponder antenna material	Aluminum, crimped coil	
Transponder adhesive	RA-2	
- labelling temperature	min. +5 °C	min. +41 °F
- usage temperature	-40°C - 150 °C	-40°F - 302 °F
- peel	min. 15 N / 25 mm (FTM 1)	
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	
Printability	Needs to be tested by customer	

Structure



Delivery details

Appearance	Single row reel form
Reel core	Paper core inner diameter 76 mm (3 in)
Transponder alignment	Chip in the middle of transponder
Winding of the reel	Face out
Reel size	5000 pcs/reel
Package size	15000 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.

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