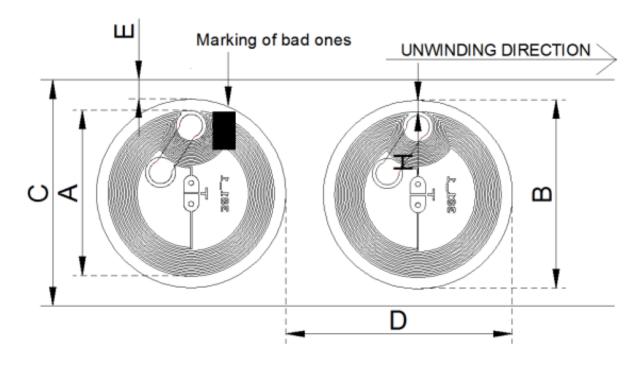
Product Specification



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

Mechanical dimensions

Α	Antenna size	22 mm	± 0,5 mm	0,866 in
В	Die-cut size	25 mm	± 0,2 mm	0,984 in
С	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
Н	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	111 μm	± 10 %	
	(excluding IC and siliconized paper)			



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	

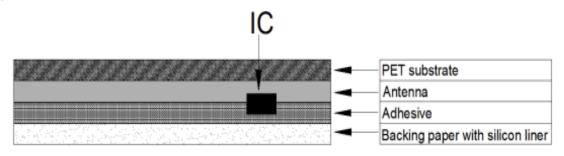
General characteristics of transponder

Operating temperature	-40 °C / +85 °C	-40 °F / 185 °F
(electronics parts)		
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

20				
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 inla	ays, 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.

Version 5

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