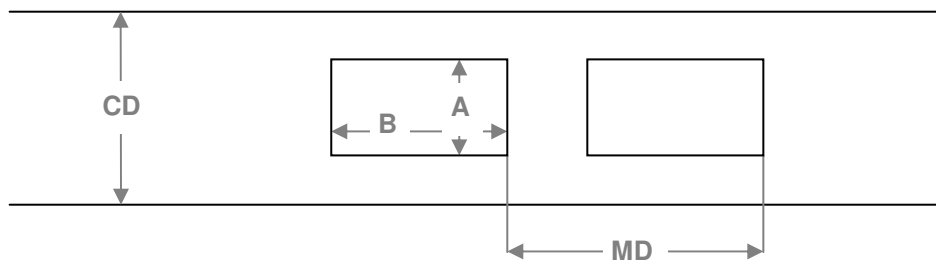


# Product Datasheet



**22x28mm, 48 mm pitch**

13.56 MHz TOM "Tag On Metal" Inlay (HF)  
ISO 15693



Inlay dimensions	
Antenna size (A x B)	22 x 38 mm
Liner width (CD)	22.0 mm
Tape pitch (MD)	48.0 ± 0.3 mm

Material/ substrate	
Total antenna thickness	< 400 µm
Nominal chip thickness	150 µm
Magnetic permeability of shielding material $\mu$	>100 @ 13.56 MHz

RFID chip types (others on request)	
ISO 15693	
<b>NXP</b> I-Code SLI	

Reliability	
Ambient operation temperatur	-25 °C to 70/85 °C (depending and limited by electrical chip specification/ functionality)
Ambient storage conditions	1 year @ 10 to 25 °C, max. 60% relative humidity
Temperature humidity +resistance	250 h @ 85 °C/85% relative humidity
Specification for bending: Chip upside: Chip downside:	Ø 20 mm @ 20N tensile strength Ø 40 mm @ 20N tensile strength

Inlay delivery details	
General	Dry and wet inlay on reel
Outer diameter Core diameter	Customer specification 76.2 mm (3")
Delivery amount	± 5%
QC	100% electrical inspection and ink dot marking of all inlays which are out of specification

**Note:**

Performance of all RFID tags on metal basically depends on the applications environment. RFID reader sensitivity and output power and the dimensions of the reader antenna influence the read ranges significantly. Proper RFID transponder tuning guarantees high performance even in application where metal is involved. **Therefore TagStar offers a high degree of support and assistance (hardware recommendations, customized tag designs etc.) in order to achieve optimal performance in tag on metal applications. Please contact us!**

TagStar products are not designed, intended, authorized or warranted to be suitable for life support applications or any other life critical applications which could involve potential risk of death, personal injury or severe property or environmental damage.