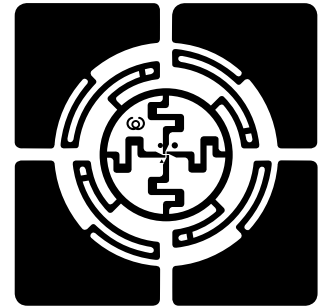


# INVENGO SHAMROCK WET INLAY



80% of real size

## Impinj Monza 4D



## About Invengo's Shamrock

The Invengo Shamrock tags and inlays equipped with the Impinj Monza 4D are designed to enable end-users to reach and sustain high levels of performance in all global RAIN RFID (UHF) frequency regions. Within the area of supply chain management applications, the Invengo Shamrock is recognized as a cost-efficient high-performance inlay which can be easily integrated in multi-sized packaging labels.



Invengo – the global RFID technology provider – is a leading developer and manufacturer of high quality, intelligent RAIN RFID and HF/NFC connectivity solutions and consumables (tags & inlays) utilized in the Internet of Things. With a focus on RFID innovation, Invengo has created a leading product line in retail, (industrial) laundry, library, (public) transportation, healthcare, and many other industries.

Invengo Technology Pte. Ltd. (SG) is the International Headquarters of Invengo Information Technology Co. Ltd, listed on Shenzhen Stock Exchange (SZSE: 002161.SZ). Employing over 600 people globally, Invengo is one of the largest publicly traded, RFID / IoT oriented companies in the world.

## Key Benefits

- High performance 3D inlay
- Ultimate multi-directional read performance
- Serialized TID
- ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support
- 100% Quality Tested

## Application Areas

- Industry
- Supply Chain Management

# Product Specifications

## RFID

<b>Protocols Supported</b>	EPCglobal C1 Gen 2, ISO/IEC18000-63
<b>Integrated Circuit (IC)</b>	Impinj Monza 4D
<b>Operating Frequency</b>	840 to 960MHz 128
<b>EPC size</b>	bits
<b>TID</b>	96 bits
<b>User Memory</b>	32 bits
<b>Access password</b>	32 bits
<b>Kill password</b>	32 bits

## Environmental

<b>Operating Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Recommended</b>	-20°C to 50°C (-4°F to 122°F)
<b>Shelf Life</b>	Min. 2 yrs from date manufacturing in 20°C (68°F) @ 50% RH
<b>Bending Diameter</b>	> 50 mm, tension max. 10 N
<b>Static Pressure</b>	<10 MPa (10 N/mm <sup>2</sup> )
<b>ESD</b>	± 2000V peak
<b>Adhesive</b>	Acrylic

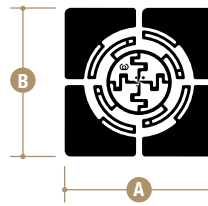
## Dimensions

<b>Antenna Size (A x B)</b>	50 x 50 mm (1.97 x 1.97 in)
<b>Die-cut Size (C x D)</b>	60 x 60 mm (2.36 x 2.36 in)
<b>Web Width (E)</b>	64 mm (2.52 in)
<b>Pitch (F)</b>	72 mm (2.835 in)
<b>PET Thickness</b>	0,05 mm (0.002 in)
<b>Antenna Thickness</b>	0,009 mm (0.0003 in)
<b>Die-cut to edge (G)</b>	2 mm (0.08 in)
<b>Core Size (H)</b>	76 mm (3 in)

## Order Information

<b>Product code</b>	XCTF-8038-C11-FSI
<b>Packaging</b>	Carton boxes
<b>Quantity pc p/roll; roll p/box</b>	5000 pcs/roll; 4 rolls/box

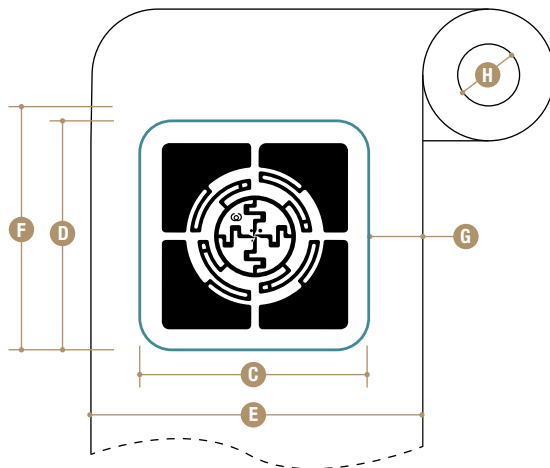
## Inlay Design



## Inlay Stackup

	PET Substrate
	Aluminium Antenna
	IC
	Adhesive
	Silicone Liner

## Winding / Dimensions



## APAC

### Invengo Technology Pte. Ltd

10 Kallang Avenue  
#05-15 Tower 2, Aperia  
Singapore 339510

Office: +65 6702 3909  
sales.apac@invengo.com

## Americas

### Invengo Technology Corp.

2700-160 Sumner Blvd.  
Raleigh, NC 27616  
United States of America

Office: +1 919 890 0202  
sales.americas@invengo.com

## EMEA

### Invengo Technologies

180 Voie Ariane – Athélia 1  
13600 La Ciotat  
France

Office: +33 413 96 1111  
sales.emea@invengo.com