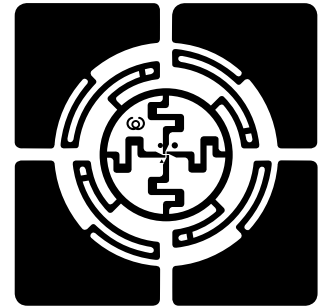


INVENGO SHAMROCK WET INLAY



80% of real size

Impinj Monza 4U



About Invengo's Shamrock

The Invengo Shamrock tags and inlays equipped with the Impinj Monza 4U 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

Protocols Supported	EPCglobal C1 Gen 2, ISO/IEC18000-63
Integrated Circuit (IC)	Impinj Monza 4U
Operating Frequency	840 to 960MHz
EPC size	128 bits
TID	96 bits
User Memory	512 bits
Access password	32 bits
Kill password	32 bits

Environmental

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

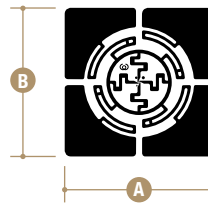
Dimensions

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

Order Information

Product code	XCTF-8038-C09-FSI
Packaging	Carton boxes
Quantity pc p/roll; roll p/box	5000 pcs/roll; 4 rolls/box
Yield rate	≥ 96%

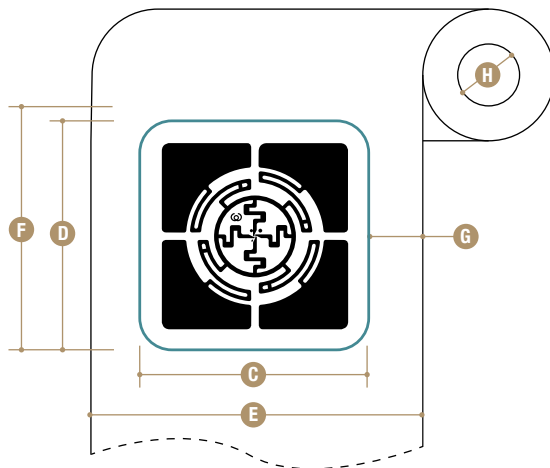
Inlay Design



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