

INVENGO GEM DRY INLAY

Impinj Monza 5

FC EPCglobal [€] C € BOHS

About Invengo's GEM

The Invengo GEM tags equipped with the Impini Monza 5 are designed to enable end-users to reach and sustain high levels of performance in all global RAIN RFID (UHF) frequency regions. The Invengo GEM tag is especially designed to tag small items within the retail environment as jewelry and eyeglasses in which it can be called one of the best in class.

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 product for item-level tagging in retail
- Especially designed for jewelry and eyeglasses
- Ideal, compact design with integrated tail
- Easy to apply
- ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support
- 100% Quality Tested



Product Specifications

RFID

Protocols Supported

Integrated Circuit (IC) Operating Frequency EPC size TID

Access password Kill password

Environmental

Operating Temperature Recommended Shelf Life

Bending Diameter Static Pressure ESD

Dimensions

Antenna Size (A x B) Web Width (E) Pitch (F) PET Thickness Antenna Thickness Die-cut to gap Core Size (H) -40°C to 85°C (-40°F to 185°F) -20°C to 50°C (-4°F to 122°F) Min. 2 yrs from date manufacturing in 20°C (68°F) @ 50% RH > 50 mm, tension max. 10 N <10 MPa (10 N/mm2) ± 2000V peak

EPCglobal C1 Gen 2,

ISO/IEC18000-63

Impinj Monza 5

840 to 960MHz

32bits model number and 48 bits serialized number

128 bits

32 bits

32 bits

66,6 x 10,95 mm (2.62 x 0.43 in) 75 mm (2.95 in) 51,95 mm (2.045 in) 0,05 mm (0.002 in) 0,009 mm (0.0003 in) 3,95 mm (0.156 in) 76 mm (3 in)

Order Information

Product code
Packaging
Quantity pc p/roll; roll p/box

XCTF-8108-C13 Carton boxes 5000 pcs/roll; 4 rolls/box

Inlay Design

Inlay Stackup



IC Aluminium Antenna PET Substrate

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

© 2018 Invengo Technology Pte. Ltd - All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Invengo is a registered trademark of Invengo Information Technology Co. Ltd. and/or one of its subsidiaries.



INVENGO GEM LABEL

S

Impinj Monza 5

FC EPCglobal [€] C € BOHS

About Invengo's GEM

The Invengo GEM tags equipped with the Impini Monza 5 are designed to enable end-users to reach and sustain high levels of performance in all global RAIN RFID (UHF) frequency regions. The Invengo GEM tag is especially designed to tag small items within the retail environment as jewelry and eyeglasses in which it can be called one of the best in class.

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 product for item-level tagging in retail
- Especially designed for jewelry and eyeglasses
- Ideal, compact design with integrated tail
- Easy to apply
- ISO 9001:2008 Quality Management System and ISO 14001:2004 Environment Management System support
- 100% Quality Tested



Product Specifications

EPCglobal C1 Gen 2,

ISO/IEC18000-63

Impinj Monza 5

840 to 960MHz

32bits model number and 48 bits serialized number

-40°C to 85°C (-40°F to 185°F)

-20°C to 50°C (-4°F to 122°F)

in 20°C (68°F) @ 50% RH

<10 MPa (10 N/mm2)

± 2000V peak

Acrylic

> 50 mm, tension max. 10 N

Min. 2 yrs from date manufacturing

128 bits

32 bits

32 bits

RFID

Protocols Supported

Integrated Circuit (IC) Operating Frequency EPC size TID

Access password Kill password

Environmental

Operating Temperature Recommended Shelf Life

Bending Diameter Static Pressure ESD Adhesive

Dimensions

Antenna Size (A x B) Die-cut Size (C x D) tail Die-cut Size (C x D) with tail Web Width (E) Pitch (F) PET Thickness Antenna Thickness Die-cut to edge (G) Die-cut to gap Core Size (H) 66,6 x 10,95 mm (2.62 x 0.43 in) 25 x 13 mm (0.98 x 0.51 in) 43 x 2 mm (1.69 x 0.08 in) 75 mm (2.95 in) 51,95 mm (2.045 in) 0,05 mm (0.002 in) 0,009 mm (0.0003 in) 5 mm (0.197 in) 3,95 mm (0.156 in) 76 mm (3 in)

Order Information

Product code
Packaging
Quantity pc p/roll; roll p/box

XCTF-8108-C13-FPI Carton boxes 1500 pcs/roll; 4 rolls/box

Inlay Design





Paper Face
Adhesive
PET Substrate
Aluminium Antenna
IC
Adhesive
Silicone Liner

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

© 2018 Invengo Technology Pte. Ltd Singapore - All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.