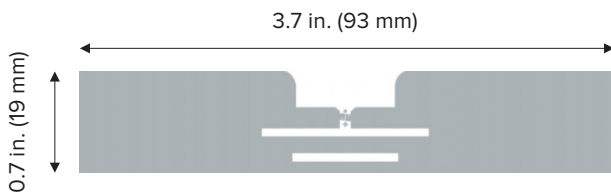# Boingtech BT0805 RFID Inlay

Advanced High-Memory Zebra-Certified RFID inlay

RFID inlays are critical to achieve the real-time visibility needed to streamline operations, minimize errors in asset-related data, as well as track, identify and maximize asset utilization. Zebra Certified Inlays deliver excellent performance, so you can rest assured that they will efficiently and effectively encode and read, leading to a higher application ROI, and best in-class user experience. The advanced Boingtech BT0805 inlay is well suited for case/pallet identification applications where inlay placement to reader varies, you are identifying a diverse number of surface types and/or a high-density application. The high-memory provides the ability to store additional data to the tag. Tested for optimal performance with Zebra printers and RFID readers, the Boingtech BT0805 inlay enables you to maximize the benefits of RFID for the identification small items.

3.7 in. (93 mm)

0.7 in. (19 mm)

Omni-directional performance for off-axis placement
The Boingtech BT0805 provides improved read performance when reader orientation varies when using a fixed or overhead reader or when the placement of the inlay on the asset is unpredictable.

Reliable read performance of diverse materials
Inlay performance varies based on the surface type (rubber, glass, plastic, etc.). This inlay has been designed to deliver longer read ranges on a wide range of surfaces. The inlay size is larger and the antenna has been tuned for use on a diverse set of surface types.

Strong read performance in high-density applications
The Boingtech BT0805 has been designed to deliver longer read ranges for applications where items are densely packed, such as pallets and items tightly packed inside of boxes, to deliver reliable performance.

Offers additional user memory for the applications that need it
The BT0805 inlay uses the Monza 4QT which offers 128 bits of EPC and 512 bits of User memory. This additional user memory allows users to comply with customer requirements for high memory or to store additional data on the tag for closed loop applications.

Zebra Certified for consistently exceptional performance
Zebra Certified Inlays have been pre-tested to ensure industry-leading performance and low instance of printer voids. Read range performance has been characterized on multiple surface types using industry standard Voyantic Tagformance test equipment. They feature the best-performing chips to support a variety of application requirements. The inlay position has been tested in Zebra industrial, desktop and mobile printers to ensure reliable encoding. Zebra is ISO 9001 certified and uses quality processes to reduce instances of unsuccessful encoding. And, we use the same thermal material from order-to-order to safeguard print consistency and quality.

Zebra ZipShip — on the shelf and ready to ship
Need an RFID labeling solution in a hurry? This inlay is in-stock and ready for immediate dispatch as part of our ZipShip program. You get fast shipment and the minimum order is just one box.

Experience enhanced readability with the high-memory Boingtech BT0805.
For more information, please visit www.zebra.com/rfidlabels

Specifications

Technical Information

Chip	Impinj Monza 4QT
EPC memory	128-bit
User memory	512-bit
TID	96 bit factory locked (48 bit unique)
Read Sensitivity	-20 dBm
Write Sensitivity	-17 dBm
RFID Standards	EPC Gen2v2
Read Range	Up to 12 m

Theoretical Read Range: ETSI (865-868 MHz)*

Air	5 m
Cardboard	9 m
Fiberglass	10 m
Glass	7 m
PTFE	11 m
Polyacetyl	11 m
PVC	12 m
Rubber	7 m

Theoretical Read Range: FCC (902-928 MHz)*

Air	11 m
Cardboard	11 m
Fiberglass	8 m
Glass	7 m
PTFE	11 m
Polyacetyl	9 m
PVC	9 m
Rubber	7 m

Testing and Compliance

All inlays certified by Zebra have been pre-tested with Zebra printers and readers.

Material Testing in End Application

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

Footnotes

*Theoretical read range data is meant to be directional. Actual performance will depend on your application and environment. Testing is recommended.

Radiation Pattern

**Read range drops to 12% of maximum when inlay is perpendicular (90° and 270°) to the reading antenna. To learn more about Radiation Pattern visit zebra.com/rfidlabels
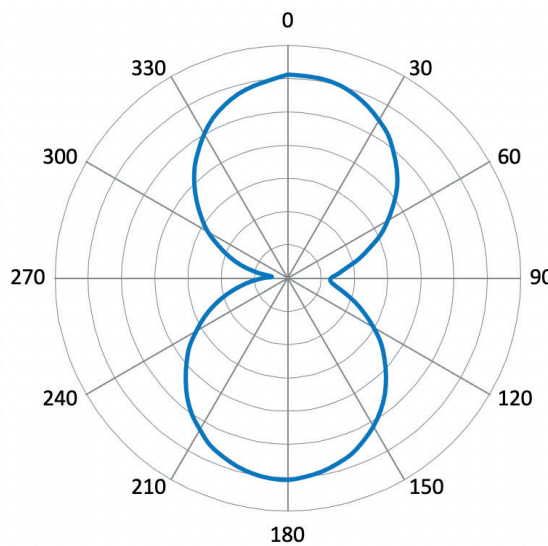
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