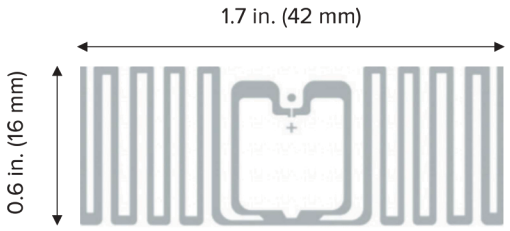
Boingtech BT781 RFID Inlay

General Purpose 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 general purpose Boingtech BT781 inlay is well suited for item level tracking applications requiring a small form factor. Tested for optimal performance with Zebra printers and RFID readers, the Boingtech BT781 inlay enables you to maximize the benefits of RFID for the identification small items.



Designed for use on small items
The 42 x 16 mm size of the Boingtech BT781 is a common size that will fit on many different items. The antenna has been designed to maximize the read range despite the small size and offering read ranges of up to 11 m.

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.

Unmatched expertise in RFID
Zebra is your trusted expert in all things RFID. We offer end-to-end RFID solutions – including pre-tested RFID supplies made with the right materials and adhesives, along with the highest-performing inlays and chips – customized for your application. We have played a central role in pioneering RFID technologies and defining global standards since the mid-1990's, when smart-label technology first appeared. We were recognized as the #1 RFID brand by the 2018 RFID Journal's Brand Report. And we hold more than 575 RFID patents and numerous industry firsts in RFID.

Zebra ZipShip — on the shelf and ready to ship
Need an RFID on-metal 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.

Enable tracking of your small items with the Boingtech BT781.

Specifications

Technical Information	
Chip	NXP UCODE 8
EPC memory	128-bit
User memory	N/A
TID	96 bit factory locked (48 bit unique)
Read Sensitivity	-23 dBm
Write Sensitivity	-18 dBm
RFID Standards	EPC Gen2v2
Read Range	Up to 11 m
Theoretical Read Range: ETSI (865-868 MHz)*	
Air	8 m
Cardboard	10 m
Fiberglass	7 m
Glass	5 m
PTFE	9 m
Polyacetyl	6 m
PVC	7 m
Rubber	5 m
Theoretical Read Range: FCC (902-928 MHz)*	
Air	11 m
Cardboard	7 m
Fiberglass	8 m
Glass	4 m
PTFE	8 m
Polyacetyl	9 m
PVC	11 m
Rubber	4 m

Material Testing in End Application

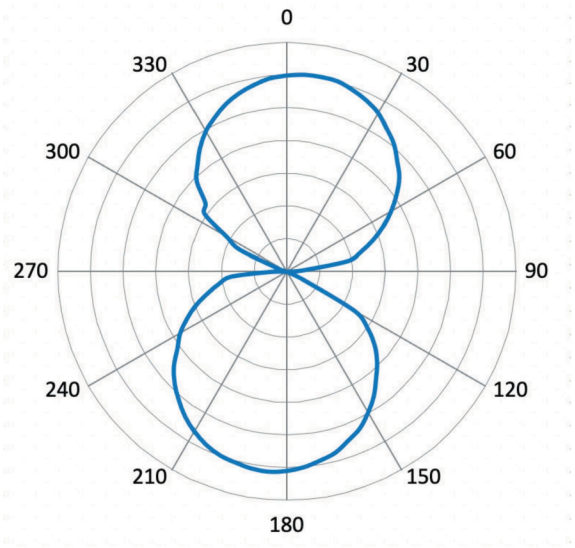
The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

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



Markets and Applications

Logistics
- Item level labeling

Retail
- Item level labeling

Healthcare
- Sample Tracking

Transportation
- Case/pallet labeling