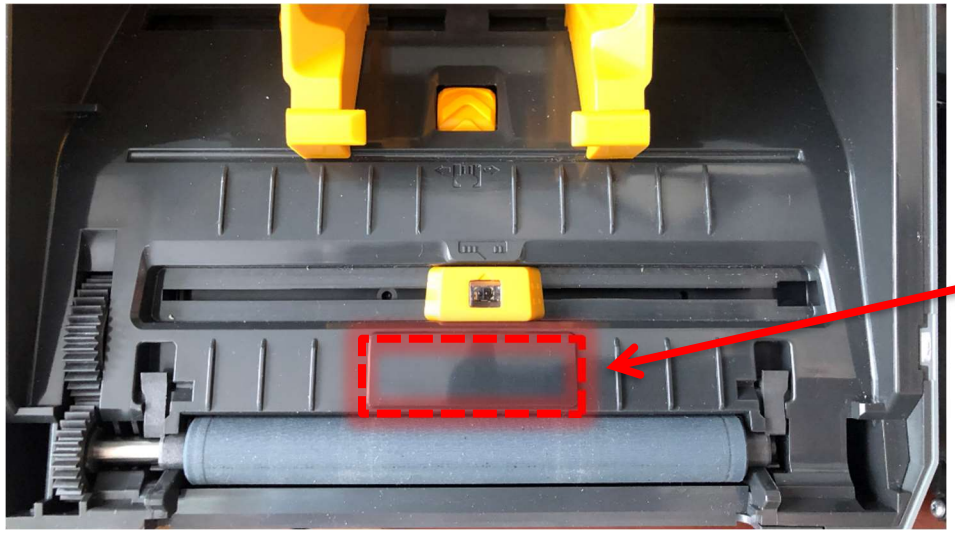
Specifying inlay placement for ZD621R RFID desktop printers

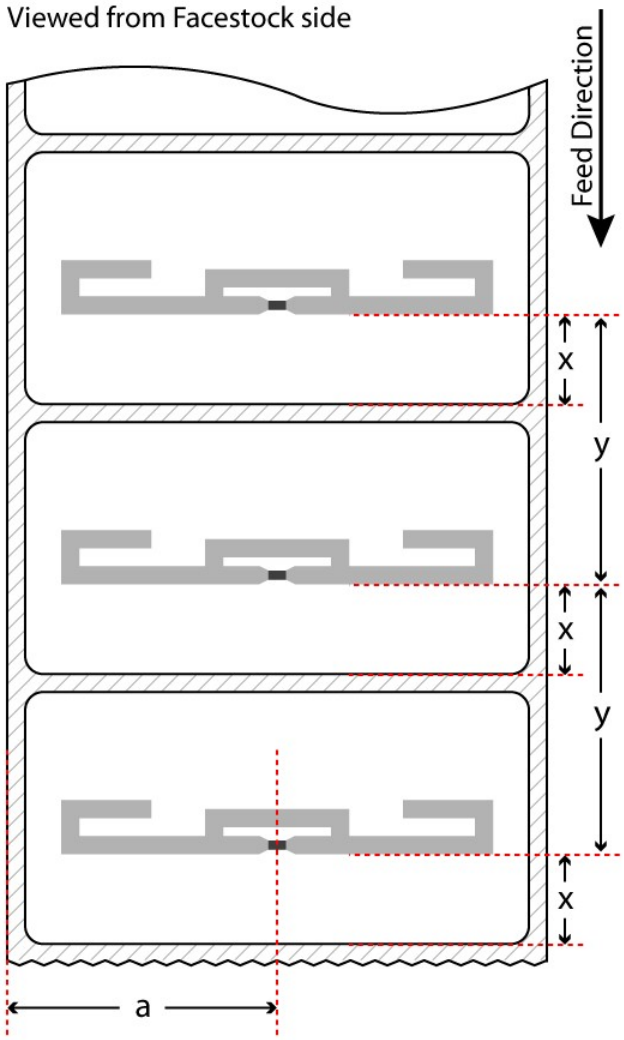
The Zebra ZD621R RFID printer does not require specific inlay placements. The patented coupler antenna and RFID calibration algorithm automatically configures optimal RFID settings for the inlay, chip, and label size being used. See the User's Manual and RFID ZPL Programming Guide 3 for more details.

Zebra manufacturers RFID labels optimized for ZD621R. Details and pricing can be found here: www.zebra.com/us/en/products/supplies/rfid-labels-tags.html

Best practices to consider when selecting RFID media for ZD621R:

- Maximum roll OD on ZD621R is 5.0" on a 1" or 3" core ID.
- Inlays should be centered across the media width with position tolerance of +/- 2mm (parameter 'a' in the diagram on the right). Some inlays will work reliably outside this tolerance.
- For labels longer than ~1", place inlays ~10-15mm from leading edge of the label, with a production tolerance of +/- 2mm (parameter 'x' in the diagram on the right).
- Small labels with a pitch of less than 1" (parameter 'y' in the diagram on the right) may require the printer to backfeed a short distance to align the inlay for encoding. This can be minimized or eliminated by designing the label to maximize distance 'x', as shown in the diagram on the right. An inlay position 'x' of at least 10mm is ideal.
- The RFID coupler antenna is located in the center of the media path, directly behind the platen roller. Approximate location of the encode zone is shown below.
- Always test RFID media before manufacturing or purchasing a large quantity.





Parameter	Name	Definition
a (mm)	Inlay Center	Left liner edge to inlay center.
x (mm)	Inlay Position	Trailing edge of mark to leading edge of inlay antenna
y (mm)	Inlay Pitch	Inlay antenna leading edge to inlay antenna leading edge.