Printronix Auto ID RFID Media Guidelines

Printronix Auto ID RFID printers are compatible with the latest chips (IC's) and inlays from the major suppliers in the RFID industry. The printers are equipped with an *Auto-Calibration* feature and proprietary encoding algorithm for easy setup eliminating the need to specify exact inlay placement or RFID power settings. The calibration routine has been tested with most major inlays embedded in typical label sizes and will work with many other inlays as well. Here are a few things to consider for optimum performance.

Referring to the diagram at right:

Ideally, inlays should be centered horizontally across the media (dimension "C"). Consistent, tag-to-tag placement of the inlays is more important than how close to center the inlays are actually placed.

The pitch (overall distance from inlay to inlay) is shown as dimension "P". With Printronix Auto ID's unique encoding algorithm, almost any pitch of 0.625"/16mm or greater can be used and still achieve maximum performance.

The active loop within the inlay should be set back from the lead edge of the media (dimension "L") a constant distance tag to tag. The loop location and shape will vary depending on inlay style. Proper inlay placement within the tag or label is important to avoid problems encoding tags.

While the Auto-Calibration routine will determine the placement of the inlay in the direction of feed, for printers with an adjustable internal antenna, it is still necessary to place the printer's antenna coupler in the proper position side-to-side. Please refer to the printer's RFID Reference Manual for instructions.

Printronix Auto ID recommends media with black marks when working with RFID labels and tags. Optimal black mark dimensions are shown in the diagram to the right

Always test RFID media on your printer before purchasing large quantities of media.

Feed Direction

Black Mark

Chip Up

0.125"min

1"

C = Center-Line
L = Lead Edge
P = Pitch

Disclaimer: