

# Image30™ (Model ISO-30+) Proximity Card

Printing Application Notes

## Scope

These recommendations have been prepared for those who handle and print Motorola Indala Corporation's **Image30™** (Model ISO-30+) Proximity Cards. Printability of the laminated cards using dye sublimation printers can be greatly enhanced by following the techniques described below.

## Material

Motorola Indala's card electronics are embedded in multiple layers of polyvinyl chloride (PVC) material. While durable and flexible, the glossy finish of the imageable surface is susceptible to scratching, which compromises high quality printing.

## Handling

**Image30** proximity cards are sealed in flexible plastic after careful handling at our factory to prevent inclusion of particulate matter, oily deposits or fingerprints on the printable surface. When unwrapped from their packaging, the cards should be handled only by gloved hands or by using finger cots, and picked up only by the edges of the card. The front surface is highly susceptible to abrasive residue, chemical substances, body oils and fingerprints.

## Prior to Printing

Cards should be cleaned with isopropyl alcohol and lint-free cloth prior to printing to ensure they are free of lint, dust and fingerprint contamination. It is recommended that the printer be frequently cleaned and maintained per the manufacturer's specification for optimum performance. Presence of dust or lint on the printer rollers will degrade the print quality during imaging. Print quality will vary depending on the dye sublimation printer type used and the cleanliness of the printer environment.

## Printable Area

The Shaded area in the following diagram, Diagram 1, outlines the recommended non-print area of the card. Printing within this area may cause visible defects due to the presence of proximity electronics.

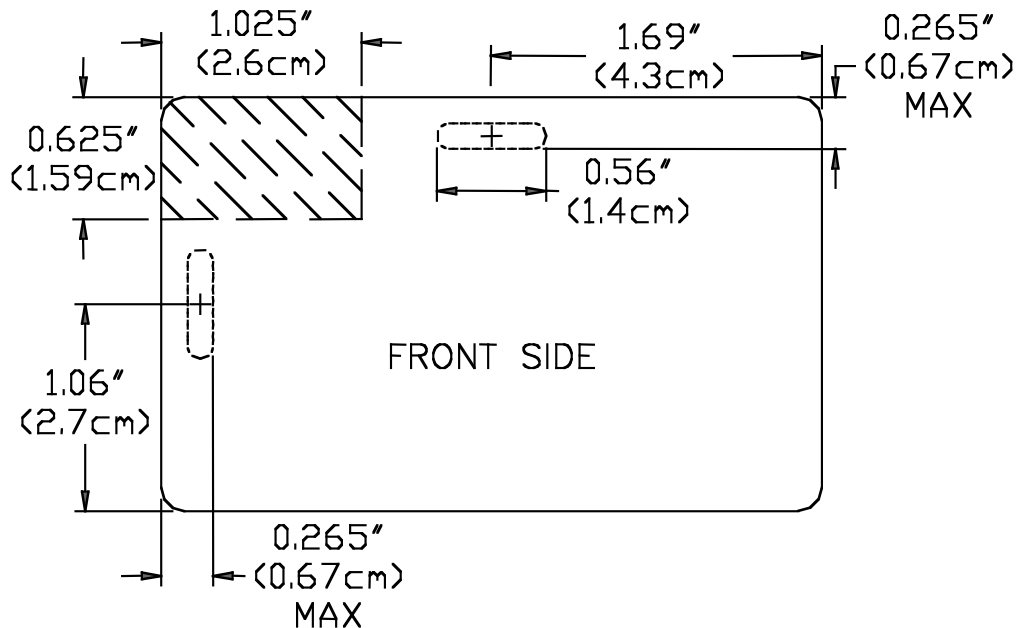


Diagram 1

### **Slot Punching**

It is strongly recommended that slot punching of the card always follow the printing process to avoid introducing additional flaws on the card surface prior to printing. The only locations for slot punching are clearly identified in Diagram 1.

### **Custom Imaging (Pre-Printing)**

Motorola Indala offers custom imaging for those graphic elements that are common to each card. Pre-printing graphics improves the overall aesthetics of the final badge because higher resolution processes are used to reproduce corporate logos and match color specifications. In addition, there is less wear and tear on the printer because only the variable information (a photo, name, etc.) is required to be printed on to the card. Print aberrations are also minimized because less surface area is imaged by the printer, thus reducing the possibility of lint and dust contaminants ruining the graphic appeal of the badge.

### **Card Use and Care**

When presenting the **Image30** card to a reader it should be positioned parallel to the reader.

The card should be treated the same as bank or credit cards.

Do not put the card in sunlight or subjected it to high temperature, such as the dashboard of an automobile.

Do not use the card to scrape ice off the windshield.

The card will withstand normal bending and flexing such as keeping it in a wallet.

The **Image30** card will not affect credit cards with magnetic stripes when kept in the same wallet.