



International Electronics Manufacturing Initiative

iNEMI SMT Product Package Labeling Project



Delphi

*Proposed Product Package Labeling of
Electronic Components*

Background:

To minimize the proliferation of electronic component package labeling, the intent of this project (Product Package Labeling of Electronic Components) is to develop a common industry guideline and standard for labeling of electronic component packages (e.g., Tape and Reel, Ammo pack, Matrix Trays, etc.) that meets today's needs of electronic industry OEM/EMS companies and yet allows for expansion to meet the needs of tomorrow.

Code 128 and DataMatrix

Solid Line to check printer

DataMatrix. GS delimit all applicable data as follows:

19S: 9 Numeric Duns + 10 Alpha Numeric Serial (License Plate)

P: Customer Part Number

Q: Quantity

Z: Customer Defined String if applicable (Delphi defines C-9023),
If no customer requirement, then 1T: Trace Number



19S: Duns+Serial

P: Customer Part Number

1P: Supplier Part Number

Q: Quantity

1T: Trace Number

2P: Part Revision

14D: Shelf Life (YYYYMMDD)

2E: MSD Level

E: Pb

3Z: Bin (free text)

Additional Supplier Information Area

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- **Linear and DataMatrix use on Label**
 - **DataMatrix barcodes have benefit of being compact, reliable, and robust (error correction)**
 - **Linear barcodes have benefit of being scanned at many processes (high scanner infrastructure)**
 - **Some processes do not have ergonomically adaptable imager hardware available (but linear is)**
 - **Only critical content is in linear barcode format**
 - **Duns+Serial: provides a unique barcode from all others globally for that single container**
 - **Customer Part Number**
 - **Quantity**
 - **User defined barcode (if applicable, otherwise Trace Number)**

- **Supplier Information Area**
 - **Supplier Logo**
 - **Supplier part number**
 - **Any additional human readable data (no barcodes allowed)**
- **DataMatrix Semicolon delimiter**
 - **The standard delimiter is the GS character (ascii 29, Group Separator)**
 - **Web Browsers do not handle the GS character, forces need to use a middleware for Web applications**
- **Label Stock**
 - **Maximum of 4" wide, but must fit to container**

- 1. It is Delphi's intent to propose this label as an Industry Guideline at a iNEMI project**
- 2. As a supplier, being required to label each container, what issues might you have with this?**
- 3. Would your other customers be able to make use of the same format?**
- 4. If minimal issues, how soon could this format be implemented?**
- 5. Other issues?**