

**DELPHI**

NEMI Label Workshop – April 27, 2005

# NEMI Supplier Label Workshop

April 27, 2005

**Jeff Tepe**

Sr. Project Engineer  
Factory Information Systems

### ◆ Delphi Supplier Labeling Requirements History

- Spec Developed to Manage Tape and Reel Materials on SMT equip (1985)
- At that time, GM Delco Electronics' Part Number Base was 8 characters
- Spec Defined a Single 29 character long, Code 39 Barcode String
  - » 8 char – Part Number
  - » 6 char – GM Defined Supplier Identification Number
  - » 10 char – Material Tracking ID (TID) Number (Supplier Defined, Not Unique)
  - » 5 char – Quantity in Full Container
- Spec was Altered to Adopt Code128 and DataMatrix (if size constraint)



- ◆ Growth Has Forced Current Spec to Evolve
  - Globally, Part Number Base is no Longer Isolated to 8 characters
  - Supplier ID Number Being Replaced with DUNS Number (SAP Driven)
  - Label Spec Must Apply to SMT and non-SMT Materials
  - Binning is Required of Some Components
  - Existing Spec will not Support Above Issues
  - Large Variety of Existing Supplier Labels is not Acceptable



### ◆ Material Data Needs and Identifiers

- Unique Number (19S)
- Customer PN (P)
- Supplier (V or 12V)
- Supplier Lot (1T)
- Quantity (Q)
- Supplier Serial Number (S)
- MSD Level ( )
- Binning ( )
- Lead Free ( )
- Polarity ( )
- Expiration Date (14D or 15D)

### ◆ Process Needs

- Allow for Error Proofing
- Allow for Efficient Scanning
- Allow for Robust Readability
- Allow for Material Traceability
- Required Hardware Must be Available
- Allow for Possibility of Internal Re-Labeling

### ◆ Where From Here?

