



Supplier Traceability Requirements for Purchased Material

Supplier Traceability Requirements for Purchased Material

1.0 Scope. This supplier traceability requirements document is applicable to materials supplied to Sanmina that are used in Product (defined as products manufactured and sold by Sanmina) or in the production of Product. The requirements herein apply to all Supplier(s) of materials and to the bar code labels applied to packaging for material provided to any Sanmina operation. Supplier shall supply materials in compliance with the terms stated herein. No deviation or exceptions apply unless mutually agreed upon in writing with an authorized Sanmina representative. It is Supplier's responsibility to review and fully understand the requirements herein before accepting a Sanmina purchase order. In some cases, Supplier will be required to comply with additional Sanmina requirements that may not be covered specifically in this document or that may differ from the requirements referenced herein. In these cases Sanmina will communicate and document the mutual agreement of said requirements utilizing Sanmina form QAF-0069-C.

1.01 This requirements document defines both the minimum traceability requirements, the minimum data contained on the labels, as well as the preferred format of the bar code labels (found on page five), exceptions shall be approved prior to shipment.

1.02 This document defines the standard to be followed by suppliers when applying bar code labels applied to the inner most level of supplier part packaging (referred to as "Point of use (POU) packaging" in this document), and outer and intermediate levels of supplier packaging.

2.0 Order of Precedence (with respect to Traceability Requirements only)

2.01 Purchase Order

2.02 QAF-0069-C "Acknowledgement of Supplementary Supplier Quality Requirements for Purchased Materials or Services"

2.03 Sanmina Master Supply Agreement (if any) - Note: the terms of the Master Supply Agreement will take precedence over only the pre-printed terms contained on each Purchase Order.

2.04 QAR-0069-C "Supplier Traceability Requirements for Purchased Materials"

3.0 General Requirements

3.01 It is the suppliers responsibility to ensure that all products are packed and labeled in accordance with good commercial practices & shall ship product in a manner which complies with all Laws, including I.C.C. regulations and which is adequate to insure safe and undamaged product arrives at Sanmina.

3.02 Outer, Intermediate and POU packaging should have the appropriate supplier labeling as defined herein.

4.0 Labeling Requirements

4.01 All products shall be labeled as defined herein

4.01.01 Outer packaging shall contain at a minimum human readable, bar code (code 39 or code 128) and "2D" Datamatrix code.

4.01.02 Intermediate and POU packaging at the lowest level of packaging (bagged reel, bagged tube, bagged tray, etc.) shall contain at a minimum both human readable and "2D" Datamatrix code and preferred inclusion of the bar code (code 39 or code 128).

- If the POU packaging contains bagged carriers (reels or tubes etc.) then the carrier and the bag shall be labeled. The carrier at a minimum will contain the Sanmina Part Number and Manufactures Part Number, Expiration Date, Quantity and MSL.
- If the reel is sealed in moisture resistant bag prior to labeling, an extra easy peel label must be supplied for application to the reel when the bag is opened.



Supplier Traceability Requirements for Purchased Material

- 4.01.03 Requirements when shipment contains packages with inhomogeneous products (different product or different PO Number/line item or different manufacturing date code) or of more than one outer packaging.
- An additional label (outer packaging label format) shall be apply on 1 of the outer packaging to identify such shipment and all the inhomogeneous product/s shall be packed in separate box.
- Note : Product of different date code shall be packed in separate box
- A packing slip shall be attached to the outer packaging that has the additional label that identifies its content.
- 4.01.04 Label content
- Product Description.
 - Manufacturing Date and Lot Code per agreed specification.
 - Moisture Sensitivity Level (MSL) per J-STD-033C.
 - Quantity contained in individual reel, tube, tray, or other acceptable packaging.
 - RoHS compliancy: The actual RoHS compliance value of the material is printed on the right side of the label that is defined in specification RoHS-F004.
 - R6: for product fully compliant to EU Directive 2011/65/EU.
 - R10: for product fully compliant to EU Directive 2015/863.
 - SP: In cases where the parts are RoHS-compliant but utilize an exemption, the supplier shall indicate "RoHS-compliant - Other Exemptions" and shall detail the exemption(s) on the packing slip.
 - NC: for product that is not compliant to EU Directive 2011/65/EU.
 - Consult specification RoHS-F004 for requirements for additional information.
 - Printed wiring boards shall include surface finish label requirements of JEDEC J-STD-609B
 - Country of Origin (COO) shall be compliant with ISO3166, 2 alpha code.
 - Dates format per ANSI MH10.8.2 & ISO/IEC 15418:2016 (ASC MH10 Data Identifiers)
 - Addendum A shows the requirements of use/ format for supply to Sanmina.
 - Addendum B shows the Data Field Identifier (DFI code) requirements.
- 4.02 Labels shall be positioned on the package in such a manner as to facilitate scanning of all fields.
- Labels shall not interfere with any other manufacturing labels.
 - If the bar code cannot be scanned through the protective material (ESD Bag, moisture proof bag, box, etc. that contains the component carrier) then a redundant bar code must be adhered to the outside of the material.
 - Outer packaging labels shall be positioned on the side of the package nearest to the manufactures label as possible.



Supplier Traceability Requirements for Purchased Material

Packing List Label in envelope on top of first carton in shipment

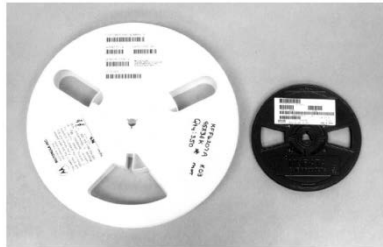


Example of label on individual packaging



Sample of label placement for individual carton within a shipment

Example of a manufacturing component label on a reel



5.0 Label Characteristics:

- 5.01 The ANSI MH10.8.2 & ISO/IEC 15418:2016 (ASC MH10 Data Identifiers), is requested as a standardization reference to be used for Data Identifier Codes. The data identifier should be:
- Enclosed in parentheses preceding the title of each barcode data field.
 - Put immediately after the start-code character in each code 39 or code 128 barcode symbol.
- 5.02 Bar code print/scan quality shall be in accordance with the ANSI X3.182 - 1990, Bar Code Print Quality Guideline.
- 5.03 1D bar code shall adhere to the following requirements.
- The absolute minimum height for barcodes is ½ inch.
 - The quiet zone width surrounding the barcode must be at least 1/4 inch (6.35 mm).
 - The minimum value of the X factor (nominal width of a narrow bar) must be 10 mils (0.254 mm).
 - The ratio of the wide-element width to the narrow element-width must be 2.5 or greater and consistent throughout the barcode.
 - No check character.
 - Intercharacter gap must be equal to or greater than X dimension.
 - The appropriate data identifiers should be used for all code 39 or code 128 barcode symbols.



Supplier Traceability Requirements for Purchased Material

- 5.04 2D Datamatrix code on the supplier label, it is expected to comply with the ISO/IEC 15434, version code "06", ISO/IEC 15415 – Print Quality for 2-dimensional barcode and shall adhere to the following requirements:
- The absolute minimum height is ½ inch.
 - This format is using ASCII non-printable characters to separate fields, like group separators (~d029), row separators (~d030), the format identifier (06), the starting pattern ([I]>) and End-of-Transmission sign (~d004).
 - Content of a Datamatrix code (sample):
[I]>~d03006~d0291PPRT123456~d0291T012345A~d029Q9876~d02916D20121026~d02914D20141026~d02931S0000001~d02932S0009999~d029Z2A~d0293Z01~d030~d004
 - Addendum A shows the requirements of use/ format for supply to Sanmina.
 - Addendum B shows the Data Field Identifier (DFI code) requirements.
- 5.05 The human readable characters shall adhere to the following requirements.
- The absolute minimum height required for all characters is 0.100 inches.
 - Human readable interpretation of bar coded data shall appear above the bar coded data
 - The data field code must be enclosed in parenthesis "(" and precede the data field name.
 - From left to right the text shall be ordered as follows: (Data Field Code) Data Field Name, Human Readable interpretation of bar coded data.
 - Dates are in the format DD-MMM-YYYY
- 5.06 Label format
- Label shall not present ESD risk to components contained within package.
 - Label shall be white in color with black printing.
 - The label dimensions shall be appropriate for the package to which it is affixed allowing the required information to be printed.
 - Recommended outer package label size is 4" wide by 6".
 - Preferred label size for intermediate label is 4" by 6". In the event if the package is too small, a label size of 4" by 3" is also acceptable
 - Recommended label size for POU label is 3" by 1.5"
 - Layout as shown in the respective sections shall be adhered to unless the size and shape of the package don't allow it; in which case labels shall be laid out to contain all required data while adhering to bar code and human readable characteristics and requirements.



SANMINA

Addendum A Sanmina Supplier Label Format

EXHIBIT : OUTERPACKAGING LABEL

From: Company XYZ Address City, State ZIP	To: Sanmina Systems Address	
(10K) Invoice No: 12345678901234567890 		
(5S) Pkg. ID: 000123+1234567890 		
(K) Trans. ID: CQ00999899 		
(Q) Qty: 1000000 		
(3Q) UOM: EA 	(11Z) Package Count: 3 	
(30P) Item No.:A1 	(30P) Item No.:B2 	(30P) Item No.:C3
(30P) Item No.:D4 	(30P) Item No.:E5 	
(P) Sanmina Part Number: LPN123456789012345A 		
(P) Sanmina Part Number: LPN123456789012345B 		
(P) Sanmina Part Number: LPN123456789012345C 		
(P) Sanmina Part Number: LPN123456789012345D 		
(P) Sanmina Part Number: LPN123456789012345E 		

LABEL SIZE : 4" X 6"



EXHIBIT : OUTERPACKAGING LABEL CONTINUATION

(P) Sanmina Part Number: LPN123456789012345F	(30P) Item No.:F6
(P) Sanmina Part Number: LPN123456789012345G	(30P) Item No.:G7
(P) Sanmina Part Number: LPN123456789012345H	(30P) Item No.:H8
(P) Sanmina Part Number: LPN123456789012345I	(30P) Item No.:I9
(P) Sanmina Part Number: LPN123456789012345J	(30P) Item No.:J0
(P) Sanmina Part Number: LPN123456789012345K	(30P) Item No.:K1
(P) Sanmina Part Number: LPN123456789012345L	(30P) Item No.:L2
(P) Sanmina Part Number: LPN123456789012345M	(30P) Item No.:M3
(P) Sanmina Part Number: LPN123456789012345N	(30P) Item No.:N4
(P) Sanmina Part Number: LPN123456789012345O	(30P) Item No.:O5
(P) Sanmina Part Number: LPN123456789012345P	(30P) Item No.:P6
(P) Sanmina Part Number: LPN123456789012345Q	(30P) Item No.:Q7
(P) Sanmina Part Number: LPN123456789012345R	(30P) Item No.:R8

LABEL SIZE : 4" BY 6"



SANMINA

Addendum A Sanmina Supplier Label Format

EXHIBIT : PACKAGING SLIP LABEL

From: Company XYZ Address City, State ZIP	To: Sanmina Systems Address
(1P) Mfgr Part Number: ABCDEFGHIJKLMNOPQRST 	
(P) Sanmina Part Number: LFPN123456789012345 	
(4S) Pkg.ID: 000123+1234567890 	
(K) Trans. ID: CQ00999899 	
(12Z) RoHS: RoHS5 	
(Q) Qty: 1000000 	
(30P) Item No.: A1 	
(4K) Line Item: 3 	
(3Q) UOM: EA 	
(11Z) Package Count: 3 	
(4L) COO: SG 	
(2P) Rev: B12 	

LABEL SIZE : 4" BY 6"



SANMINA

Addendum A Sanmina Supplier Label Format

EXHIBIT : CARTON LABEL FORMAT 1

From: Company XYZ Address City, State ZIP	To: Sanmina Systems Address	
(1P) Mfr Part Number: ABCDEFGHIJKLMNOPQRST 		
(P) Sanmina Part Number: LFPN123456789012345 		
(3S) Pkg.ID: 000123+1234567890 		
(K) Trans. ID: CQ00999899 	(4K) Line Item: 3 	
(30P) Item No.: A1 	(2P) Rev: B12 	
Product Description RES, 620 OHM, 1/16W, 1%, 0402, SMT		
(1T) Lot Code: 1234567890ABC 		
(10D) Date Code: YYWW 		
(14D) Expiry: YYYYMMDD 		
(12Z) RoHS: RoHS5 	(30T) Bin Code: A1 	
(Q) Qty: 1000000 	(3Q) UOM: EA 	(E) Plating: E1
(13Q) Box: XY 	(4L) COO: SG 	(Z) MSL: 2A

LABEL SIZE : 4" BY 6"



SANMINA

Addendum A Sanmina Supplier Label Format

EXHIBIT : CARTON LABEL FORMAT 2

From: Company XYZ Address City, State ZIP	To: Sanmina Systems Address	
(P) Sanmina Part Number: LFPN123456789012345 		
(3S) Pkg.ID: 000123+1234567890 		
(K) Trans. ID: CQ00999899 		
(Q) Qty: 1000000 		
(30P) Item No.: A1 	(4K) Line Item: 3 	
(3Q) UOM: EA 	(13Q) Box: XY 	
(1P) Mfgr Part Number: ABCDEFGHIJKLMNQRST	(2P) Rev: B12	
(21P) Product Description RES, 620 OHM, 1/16W, 1%, 0402, SMT		
(1T) Lot Code: 1234567890ABC 1234567890ABC		
(10D) Date Code: YYWW YYWW	(E) Plating: E1	
(14D) Expiry: YYYYMMDD YYYYMMDD	(4L) COO: SG SG	
(12Z) RoHS: RoHS5 RoHS5	(30T) Bin Code: A1 A1	(Z) MSL: 2A 2A

LABEL SIZE 4" BY 6"



SANMINA

Addendum A Sanmina Supplier Label Format

EXHIBIT : INTERMEDIATE LABEL FORMAT 1


(10K) Invoice No: 12345678901234567890 	
(1P) Mfgr Part Number: ABCDEFGHIJKLMNOPQRST 	
(P) Sanmina Part Number: LFPN123456789012345 	
(1T) Lot Code: 1234567890ABC 	(30P) Item No.: A1
(K) Trans. ID: CQ00999899 	(4K) Line Item: 3
Product Description: RES, 620 OHM, 1/16W, 1%, 0402, SMT	
(6V) Mfgr Name: ABCDEFGHIJKLMNO 	
(10D) Date Code: YYWW 	
(14D) Expiry: YYYYMMDD 	(2P) Rev: B12
(V) Vendor: ARROW DISTY 	(4L) COO: SG
(12Z) RoHS: RoHS5 	(E) Plating: E1
(Q) Qty: 1000000 	(30T) Bin Code: A1
(3Q) UOM: EA 	(Z) MSL: 2A

LABEL SIZE : 4" BY 6"



EXHIBIT : INTERMEDIATE LABEL FORMAT 2


(10K) Invoice No:	ABCDEFGHIJKLMNQRST
(1P) Mfgr Part Number:	ABCDEFGHIJKLMNQRST
(P) Sanmina Part Number:	LFPN123456789012345
(K) Trans. ID:	CQ00999899
(6V) Mfgr Name:	ABCDEFGHIJKLMNO
(21P) Product Description:	RES, 620 OHM, 1/16W, 1%, 0402, SMT
(1T) Lot Code:	1234567890ABC
(4K) Line Item:	3
(V) Vendor:	ARROW DISTY
(10D) Date Code:	YYWW
(12Z) RoHS:	RoHS5
(14D) Expiry:	YYYYMMDD
(Z) MSL:	2A
(Q) Qty:	1000000
(3Q) UOM:	EA
(4L) COO:	SG
(30P) Item No.:	A1
(2P) Rev:	B12
(E) Plating:	E1
(30T) Bin Code:	A1



LABEL SIZE : 3" BY 4"

EXHIBIT : POU LABEL (APPLICABLE FOR BOTH REEL COMPONENT & PACKAGING LABEL)

(P) Sanmina P/N:	LFPN123456789012345	(30P) Sanmina Rev:	A1
(1P) MFG P/N:	ABCDEFGHIJKLMNQRST	(2P) Rev:	B1
(21P) Desc:	RES, 620 OHM, 1/16W, 1%, 0402, SMT		
(6V) Mfgr Name:	ABCDEFGHIJKLMNO		
(30T) Bin Code	A1		
(1T) L/C:	123456789ABC		
(10D) D/C:	YMMM		
(12Z) RoHS:	RoHS5		
(14D) Expiry:	YYYYMMDD		
(Q) QTY:	1000000		
(3Q) UOM:	EA		
(4L) COO:	SG		
(Z) MSL:	2A		
(E) Plating:	E1		



LABEL SIZE : 3" BY 1.5"



5.0 References:

- 5.01 ANSI MH10.8.2, Data Identifier and Application Identifier Standard
- 5.02 ANSI X3.182 - 1990, Bar Code Print Quality Guideline.
- 5.03 ISO/IEC 15459-1, Unique identifiers for transport units
- 5.04 ISO/IEC 15434, Syntax for high-capacity ADC media
- 5.05 ISO/IEC 15415 – Bar Code Symbol Print Quality Test Specification
- 5.06 J-STD-033C, Handling, Packing, Shipping and Use of Moisture/Reflow Sensitive Surface Mount Devices
- 5.07 J-STD-609B, Marking and Labeling of Components, PCBs and PCBAs to Identify Lead (Pb), Lead-Free (Pb-Free) and Other Attributes
- 5.08 EU Directive 2011/65/EU, “RoHS 2”
- 5.09 EU Directive 2015/863, “RoHS 3”
- 5.10 ROHS-F004, Minimum Specifications and Requirements for Supplier RoHS Compliance
- 5.11 EIGP 114.1, Labeling Specification for Product and Shipment Identification in the Electronics Industry - 2D Barcode (Including Human Readable and 1D Barcode)

6.0 Revision Log

Rev	Date	Description of Change	Writer/ Reviser
A	8/30/17	Initial release.	Jason Clawson
B	5/10/18	Production release	Jason Clawson



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	ASN
			Requirement
Purchase Order	Trans. ID	K	Yes
Purchase Order Line Item	Line Item	4K	Yes
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFGR P/N	1P	Yes
Manufacturer name	MFGR NAME	6V	Yes
Manufacturing lot code	LOT CODE (or) L/C	1T	Yes
Manufacturing date (year/week)	DATE CODE (or) D/C	10D	Yes
Quantity	Quantity (or) QTY	Q	Yes
Invoice	INVOICE NO	10K	Yes
COO (ISO3166, 2 alpha code)	COO	4L	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z	Yes
Bin code (support LED customer required)	BIN CODE	33P	Yes
Manufacturer part number revision	REV	2P	Yes
Sanmina part number revision	ITEM NO (or) SANM REV	30P	
Product Description	PRODUCT DESCRIPTION (or) DESC	21P	Yes
Expiry Date	EXPIRY	14D	Yes
RoHs Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z	Yes
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E	Yes
Package Count	BOX	13Q	
Shipment Package Count	PACKAGE COUNT	11Z	Yes
Ship from Supplier name & address	FROM	3L	Yes
Customer destination	TO	2L	Yes
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q	Yes
Bill of Entry Number	BOE	14Z	Yes
Airway Bill	AWB	2K	Yes
Packing Slip	Packing slip	11K	Yes
Vendor	VENDOR	V	Yes
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017	Yes
Package ID (Vendor Code + packing slip number)	PKG. ID	5S	
	PKG. ID	4S	
	PKG. ID	3S	
Customs number (EAR nbr)	EAR number	13Z	
Serial Number	Serial Number	S	



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	Outerpackaging label			
			Requirement	Barcode		Human Readable
				2D	1D	
Purchase Order	Trans. ID	K	Yes	Yes	Yes	Yes
Purchase Order Line Item	Line Item	4K				
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes	Yes	Yes	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFG P/N	1P				
Manufacturer name	MFGR NAME	6V				
Manufacturing lot code	LOT CODE (or) L/C	1T				
Manufacturing date (year/week)	DATE CODE (or) D/C	10D				
Quantity	Quantity or QTY	Q	Yes	Yes	Yes	Yes
Invoice	INVOICE NO	10K	Yes	Yes	Yes	Yes
COO (ISO3166, 2 alpha code)	COO	4L	Yes	Yes	YES	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z				
Bin code (support LED customer required)	BIN CODE	33P				
Manufacturer part number revision	REV	2P				
Sanmina part number revision	ITEM NO (or) SANM REV	30P				
Product Description	PRODUCT DESCRIPTION (or) DESC	21P				
Expiry Date	EXPIRY	14D				
RoHS Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z				
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E				
Package Count	BOX	13Q				
Shipment Package Count	PACKAGE COUNT	11Z	Yes	Yes	Yes	Yes
Ship from Supplier name & address	FROM	3L	Yes	Yes		Yes
Customer destination	TO	2L	Yes	Yes		Yes
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q	Yes	Yes	Yes	Yes
Bill of Entry Number	BOE	14Z				
Airway Bill	AWB	2K	Yes	Yes	YES	Yes
Packing Slip	Packing slip	11K	Yes	Yes	Optional	Yes
Vendor	VENDOR	V				
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017				
Package ID (Vendor Code + packing slip number)	PKG. ID	5S	Yes	Yes	YES	Yes
	PKG. ID	4S				
	PKG. ID	3S				
Customs number (EAR nbr)	EAR number	13Z				
Serial Number	Serial Number	S				



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	Packaging Slip label			
			Requirement	Barcode		Human Readable
				2D	1D	
Purchase Order	Trans. ID	K	Yes	Yes	YES	Yes
Purchase Order Line Item	Line Item	4K	Yes (if multiple)	Yes	YES	Yes
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes	Yes	YES	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFGR P/N	1P	Yes	Yes	Optional	Yes
Manufacturer name	MFGR NAME	6V				
Manufacturing lot code	LOT CODE (or) L/C	1T				
Manufacturing date (year/week)	DATE CODE (or) D/C	10D				
Quantity	Quantity (or) QTY	Q	Yes	Yes	YES	Yes
Invoice	INVOICE NO	10K				
COO (ISO3166, 2 alpha code)	COO	4L	Yes	Yes	Yes	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z				
Bin code (support LED customer required)	BIN CODE	33P				
Manufacturer part number revision	REV	2P	Yes	Yes	Optional	Yes
Sanmina part number revision	ITEM NO (or) SANM REV	30P	Yes	Yes	Optional	Yes
Product Description	PRODUCT DESCRIPTION (or) DESC	21P				
Expiry Date	EXPIRY	14D				
RoHS Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z	Yes	Yes	Optional	Yes
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E				
Package Count	BOX	13Q				
Shipment Package Count	PACKAGE COUNT	11Z	Yes	Yes	YES	Yes
Ship from Supplier name & address	FROM	3L	Yes	Yes		Yes
Customer destination	TO	2L	Yes	Yes		Yes
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q	Yes	Yes	Optional	Yes
Bill of Entry Number	BOE	14Z				
Airway Bill	AWB	2K	Yes	Yes	Yes	Yes
Packing Slip	Packing slip	11K	Yes	Yes	Optional	Yes
Vendor	VENDOR	V				
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017				
Package ID (Vendor Code + packing slip number)	PKG. ID	5S				
	PKG. ID	4S	Yes	Yes	YES	Yes
	PKG. ID	3S				
Customs number (EAR nbr)	EAR number	13Z				
Serial Number	Serial Number	S				



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	Carton Label			
			Requirement	Barcode		Human Readable
				2D	1D	
Purchase Order	Trans. ID	K	Yes	YES	YES	Yes
Purchase Order Line Item	Line Item	4K	Yes (if multiple)	YES	YES	Yes
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes	YES	YES	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFGR P/N	1P	Yes	YES	optional	Yes
Manufacturer name	MFGR NAME	6V				
Manufacturing lot code	LOT CODE (or) L/C	1T	Yes	YES	optional	Yes
Manufacturing date (year/week)	DATE CODE (or) D/C	10D	Yes	YES	optional	Yes
Quantity	Quantity (or) QTY	Q	Yes	YES	YES	Yes
Invoice	INVOICE NO	10K				
COO (ISO3166, 2 alpha code)	COO	4L	Yes	YES	optional	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z	Yes	YES	optional	Yes
Bin code (support LED customer required)	BIN CODE	33P	Yes	YES	optional	Yes
Manufacturer part number revision	REV	2P	Yes	YES	optional	Yes
Sanmina part number revision	ITEM NO (or) SANM REV	30P	YES	YES	YES	Yes
Product Description	PRODUCT DESCRIPTION (or) DESC	21P	Yes	YES	optional	Yes
Expiry Date	EXPIRY	14D	Yes	YES	optional	Yes
RoHS Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z	Yes	YES	optional	Yes
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E	Yes	YES	optional	Yes
Package Count	BOX	13Q	Yes (if more th	YES	YES	Yes
Shipment Package Count	PACKAGE COUNT	11Z				
Ship from Supplier name & address	FROM	3L	Yes (if it is only	Yes		Yes
Customer destination	TO	2L	Yes (if it is only	Yes		Yes
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q	Yes	Yes	YES	Yes
Bill of Entry Number	BOE	14Z				
Airway Bill	AWB	2K				
Packing Slip	Packing slip	11K	Yes (if it is only	Yes	optional	Yes
Vendor	VENDOR	V				
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017				
Package ID (Vendor Code + packing slip number)	PKG. ID	5S				
	PKG. ID	4S				
	PKG. ID	3S	Yes	Yes	YES	Yes
Customs number (EAR nbr)	EAR number	13Z				
Serial Number	Serial Number	S				



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	Intermediate Label			
			Requirement	Barcode		Human Readable
				2D	1D	
Purchase Order	Trans. ID	K	Yes	Yes	optional	Yes
Purchase Order Line Item	Line Item	4K	Yes	Yes	optional	Yes
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes	Yes	optional	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFGR P/N	1P	Yes	Yes	optional	Yes
Manufacturer name	MFGR NAME	6V	Yes	Yes	optional	Yes
Manufacturing lot code	LOT CODE (or) L/C	1T	Yes	Yes	optional	Yes
Manufacturing date (year/week)	DATE CODE (or) D/C	10D	Yes	Yes	optional	Yes
Quantity	Quantity (or) QTY	Q	Yes	Yes	optional	Yes
Invoice	INVOICE NO	10K	Yes	Yes	optional	Yes
COO (ISO3166, 2 alpha code)	COO	4L	Yes	Yes	optional	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z	Yes	Yes	optional	Yes
Bin code (support LED customer required)	BIN CODE	33P	Yes	Yes	optional	Yes
Manufacturer part number revision	REV	2P	Yes	Yes	optional	Yes
Sanmina part number revision	ITEM NO (or) SANM REV	30P	Yes	Yes	optional	Yes
Product Description	PRODUCT DESCRIPTION (or) DESC	21P	Yes	Yes	optional	Yes
Expiry Date	EXPIRY	14D	Yes	Yes	optional	Yes
RoHS Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z	Yes	Yes	optional	Yes
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E	Yes	Yes	optional	Yes
Package Count	BOX	13Q				
Shipment Package Count	PACKAGE COUNT	11Z				
Ship from Supplier name & address	FROM	3L				
Customer destination	TO	2L				
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q				
Bill of Entry Number	BOE	14Z				
Airway Bill	AWB	2K				
Packing Slip	Packing slip	11K				
Vendor	VENDOR	V	YES	YES	optional	Yes
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017				
Package ID (Vendor Code + packing slip number)	PKG. ID	5S				
	PKG. ID	4S				
	PKG. ID	3S				
Customs number (EAR nbr)	EAR number	13Z				
Serial Number	Serial Number	S				



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	POU label - Reel component label			
			Requirement	Barcode		Human Readable
				2D	1D	
Purchase Order	Trans. ID	K				
Purchase Order Line Item	Line Item	4K				
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes	Yes	optional	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFGR P/N	1P	Yes	Yes	optional	Yes
Manufacturer name	MFGR NAME	6V	Yes	Yes	optional	Yes
Manufacturing lot code	LOT CODE (or) L/C	1T	Yes	Yes	optional	Yes
Manufacturing date (year/week)	DATE CODE (or) D/C	10D	Yes	Yes	optional	Yes
Quantity	Quantity (or) QTY	Q	Yes	Yes	optional	Yes
Invoice	INVOICE NO	10K				
COO (ISO3166, 2 alpha code)	COO	4L	Yes	Yes	optional	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z	Yes	Yes	optional	Yes
Bin code (support LED customer required)	BIN CODE	33P	Yes	Yes	optional	Yes
Manufacturer part number revision	REV	2P	Yes	Yes	optional	Yes
Sanmina part number revision	ITEM NO (or) SANM REV	30P	Yes	Yes	optional	Yes
Product Description	PRODUCT DESCRIPTION (or) DESC	21P	Yes	YES	optional	Yes
Expiry Date	EXPIRY	14D	Yes	Yes	optional	Yes
RoHs Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z	Yes	Yes	optional	Yes
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E	Yes	Yes	optional	Yes
Package Count	BOX	13Q				
Shipment Package Count	PACKAGE COUNT	11Z				
Ship from Supplier name & address	FROM	3L				
Customer destination	TO	2L				
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q	Yes	Yes	optional	Yes
Bill of Entry Number	BOE	14Z				
Airway Bill	AWB	2K				
Packing Slip	Packing slip	11K				
Vendor	VENDOR	V				
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017				
Package ID (Vendor Code + packing slip number)	PKG. ID	5S				
	PKG. ID	4S				
	PKG. ID	3S				
Customs number (EAR nbr)	EAR number	13Z				
Serial Number	Serial Number	S	As applicable	optional	optional	



Addendum B Data Field Identifier

Data Field Name	Data Field Title	Data field Identifier	POU label - Package label			
			Requirement	Barcode		Human Readable
				2D	1D	
Purchase Order	Trans. ID	K				
Purchase Order Line Item	Line Item	4K				
Sanmina part number	SANMINA PART NUMBER (or) SANMINA PART NO (or) SANM P/N	P	Yes	Yes	optional	Yes
Manufacturer part number	MFGR PART NUMBER (or) MFGR P/N	1P	Yes	Yes	optional	Yes
Manufacturer name	MFGR NAME	6V	Yes	Yes	optional	Yes
Manufacturing lot code	LOT CODE (or) L/C	1T	Yes	Yes	optional	Yes
Manufacturing date (year/week)	DATE CODE (or) D/C	10D	Yes	Yes	optional	Yes
Quantity	Quantity (or) QTY	Q	Yes	Yes	optional	Yes
Invoice	INVOICE NO	10K				
COO (ISO3166, 2 alpha code)	COO	4L	Yes	Yes	optional	Yes
MSL (J-STD-020C definition, for mech. Part = "N.A")	MSL	Z	Yes	Yes	optional	Yes
Bin code (support LED customer required)	BIN CODE	33P	Yes	Yes	optional	Yes
Manufacturer part number revision	REV	2P	Yes	Yes	optional	Yes
Sanmina part number revision	ITEM NO (or) SANM REV	30P	Yes	Yes	optional	Yes
Product Description	PRODUCT DESCRIPTION (or) DESC	21P	Yes (if there is	Yes	Optional	Yes (if there
Expiry Date	EXPIRY	14D	Yes	Yes	optional	Yes
RoHs Compliancy (per RoHS-F004 section 7.1)	RoHS	12Z	Yes	Yes	optional	Yes
Terminal Finish (IPC/JEDEC J-STD-609B)	PLATING	E	Yes	Yes	optional	Yes
Package Count	BOX	13Q				
Shipment Package Count	PACKAGE COUNT	11Z				
Ship from Supplier name & address	FROM	3L				
Customer destination	TO	2L				
Unit of Measure, as defined by the two character ANSI X12.3 Data	UOM	3Q	Yes	Yes	optional	Yes
Bill of Entry Number	BOE	14Z				
Airway Bill	AWB	2K				
Packing Slip	Packing slip	11K				
Vendor	VENDOR	V				
Shipment Expected Delivery Date	Planned Delivery Date	6Dyyyyymmdd017				
Package ID (Vendor Code + packing slip number)	PKG. ID	5S				
	PKG. ID	4S				
	PKG. ID	3S				
Customs number (EAR nbr)	EAR number	13Z				
Serial Number	Serial Number	S	As applicable	optional	optional	