REQUIREMENTS FOR THE IDENTIFICATION ON THE PACKAGING FOR SUPPLY OF COMPONENTS

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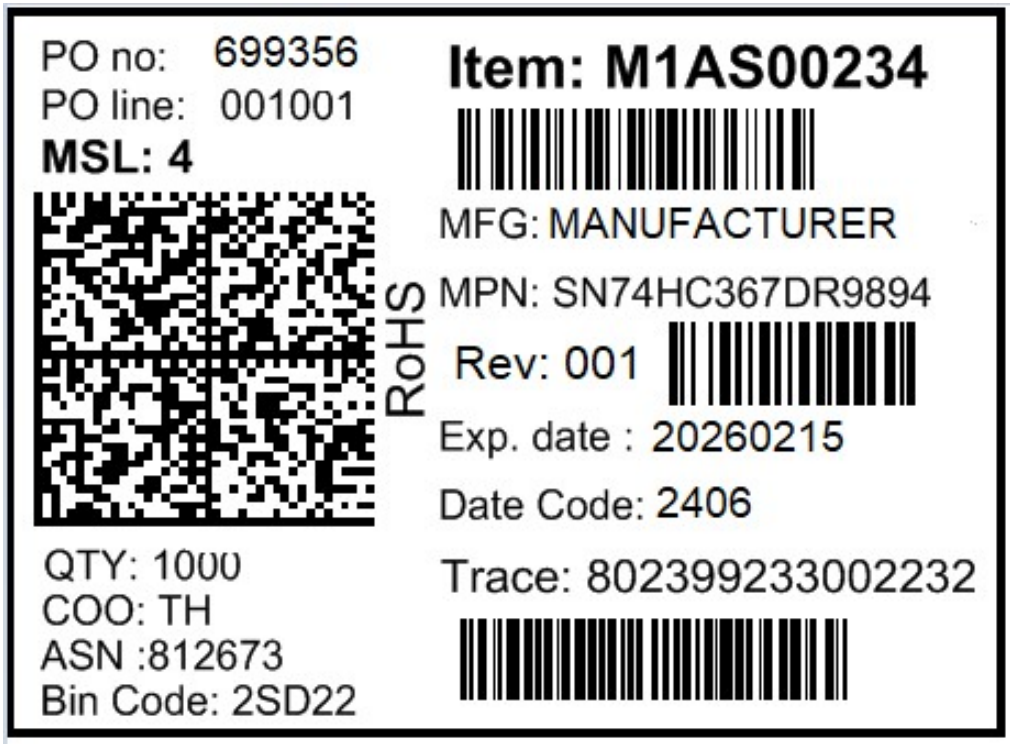
1. Part Packaging (smallest package unit)

1.1. Size and layout

Label size 6cm x 4,5 cm



1.2. Encoded information

“ASN “
Advance Shipment Notice number
“QTY”
Quantity in package
„PO no.”
Customer Purchase Order number
“PO line”
Purchase Order line number (containing line and shipment number)
„COO”
Country of Origin – in accordance with ISO 3166-2
“Date Code”

Year and week of manufacturing - YYWW format

“Exp. Date”

Item expiration date – YYYYMMDD format

“Item”

Customer item (128 barcode below the text)

“Rev.”

Revision code item (128 barcode in line with the text)

“Trace”

Unique traceability number.
At Fideltronik we require unique numbers for each package. The unique trace number must be in the following format:
1T8XXXYYUUUUUUUUU
1T – Trace separator code
8XXX – Unique supplier number
YY – Year in which trace number is issued
UUUUUUUUU – Unique trace number for the supplier in the given year

It is possible to use alternative format:
1T8XXXUUUUUUUUUUU
1T – Trace separator code
8XXX – Unique supplier number
UUUUUUUUUUU – Unique trace number for the supplier

In cases when unique supplier trace number contains less than 9 or 11 digits, depending on the selected format it should be completed by entering 0 at the end of the section

“Bin Code” – LED parts only

”MFG”
Manufacturer name- When implementing the label, a mapping between the supplier and Fideltronik must be defined. Fideltronik will create a system mapping to associate the supplier code with Fideltronik.

”MPN”

Manufacturer Part Number

”MSL”

Moisture Sensitivity Level.

”RoHS”

ROHS compliance confirmation

“Quantity”

Field	Field on Label	Barcode	Description ANSI MH10.8.2	Max length	Separator for the field	Example data
ASN	Yes	No	Advance Shipment Notification (ASN) Shipment ID (SID)	an2+an2...30	**2S**	2S81267333
PO no.	Yes	No	Order number assigned by a Customer to identify Purchasing Transaction (e.g., purchase order number)	an1+n16	**K**	K174489-01
PO line	Yes	No	Order line number assigned by the Customer to identify Purchasing Transaction	an2+an6	**4K**	4K001001
Item	Yes	Yes	Item Identification Code assigned by the Customer	an1+n15	**P**	PM1WW00717
Rev.	Yes	Yes	A code assigned to specify the revision level for the Item (e.g., engineering change level, edition, or revision)	an2+n3	**2P**	2P001
MFG	Yes	No	Supplier Code assigned by Supplier	an2+n40	**1V**	1VMURATA
COO	Yes	No	Country of Origin, two-character ISO 3166 country code. ***With agreement of trading partners and when the Country of Origin is mixed, Country Code "AA" shall be used***	an2+an2..3	**4L**	4LUS
Date Code	Yes	No	YYWW format	an3+an4	**10D**	10D1533
Quantity	Yes	No	Quantity, Number of Pieces, or Amount (numeric only) unit of measure and significance mutually defined	an1+n7	**Q**	Q5000
RoHS	Yes	No	First Level (Supplier Assigned)	An3+an1	**30P**	30PY
Trace	Yes	Yes	Traceability Number assigned by the Supplier to identify/trace the unique group of entities (e.g., lot, batch, heat)	an2+n15	**1T**	1T800116283002883
MPN	Yes	No	Item Identification Code assigned by the Supplier	an2+n50	**1P**	1PSN74HC367DR9894
Exp. Date	Yes	No	Mutually Defined between Customer and Supplier	an3+an8	**14D**	14D20170315
MSL	Yes	No	Second Level (Supplier Assigned)	an3+an1..2	**31P**	31P4

Field	Field on Label	Barcode	Description ANSI MH10.8.2	Max length	Separator for the field	Example data
Bin Code	Yes	No	Mutually Defined between Customer and Supplier	an1+an10	**Z**	Z2SD11

ASN [2S] – if it is not possible to add ASN to the code, this field can be left empty: [GS]**2S**[GS]

PO no [K] – PO number is obligatory, example: [GS]**K**123456[GS]

PO Line [4K] – PO line and PO shipment numbers are obligatory, example: [GS]**4K**001001[GS]

ITEM [P] – Customer item number is obligatory

Rev [2P] – Item revision number - if it is not possible to add this information, enter a value „-'',
e.g. [GS]**2P**-[GS]

MFG [1V] – Manufacturer name is obligatory;

COO [4L] – Country of origin is obligatory and must be in line with ISO 3166-1 alfa-2 or ISO 3166-1 alfa-3

Date Code [10D] – is obligatory and must be in YYWW (YEAR/WEEK) format

Quantity [Q] – is obligatory; the total quantity within the unit packages must match the quantity in Fideltronik' s order

RoHS [30P] – is obligatory, accepted values are: „Y" or „N" example: [GS]**30P**Y[GS]

Trace [1T] – is obligatory; the first 4 digits (supplier's ID number) are assigned to the supplier by Fideltronik ; the digits that follow, can be a sequence of consecutive label numbers; trace must be unique/unrepeatable for each 2D label and cannot be longer than 15 characters (only digits)

MPN [1P] – Manufacturer Part Number is obligatory and must match the MPN specified in Fideltronik' s order

Exp.Date [14D] – obligatory for chemicals; if applicable, it is important to keep the format YYYYMMDD (YEAR/MONTH/DAY); if not applicable, supplier may leave this field empty, example: [GS]14D[GS];

MSL [31P] – if not applicable enter „NA", example: [GS]**31P**NA[GS]

Bin Code [Z] – if not applicable you can leave this field empty, example: [GS]**Z**[GS]

Additional Information:

- All field separators, even empty ones, must be included in the 2D code.
- 2D labels should be attached to every smallest, single package. For components delivered on reels, 2D labels must be placed directly on each reel.
- If the supplier is not a manufacturer, the list of manufacturers offered by the supplier along with their short names, that will be used in 2D codes must be sent for approval and recoding by Fideltronik - any changes in the manufacturers offered or changes relating to the names used for 2d codes must be reported to Fideltronik

1.3. Requirements on the 2d and 1d codes

1.3.1. Example 2d code - datamatrix

[RS] – code ASCII noprintable „Record Separator” Hex 1E
[GS] – code ASCII noprintable “Group Separator” Hex 1D
[EOT] – code ASCII noprintable “End of Transmission” Hex 04

[)>{RS}06{GS}2S812673{GS}K699356{GS}4K001001{GS}PM1AS00234{GS}2P001{GS}Q1000{GS}1VMANUFACTURER{GS}14D20260215{GS}4LTH{GS}10D2406{GS}30PY{GS}1T802399233002232{GS}1PSN74HC367DR9894{GS}31P4{GS}Z2SD22{RS}{EOT}

1.3.2. Example 1d code – code 128

Value in Barcode: **M1AS00234**

2. Related documents

Data Matrix - ECC 200 2D-Label Code-Syntax according to ISO/IEC 15434 standard
Data Identifier according to ANSI MH10.8.2
IPC/JEDEC J-STD-020C Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface Mount Devices
ISO 3166-2 List of all countries with their 2-digit codes