NXP PQ Label Specification for Board Solutions

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Revision History

Rev.	Date	Name	Description
B1	July 11, 2017	Kinheng, LEE	Original Draft
C	July 17, 2017	Kinheng, LEE	Country code table update
C1	August 14, 2017	Kinheng, LEE	Country code table update, and note for (32T) exception
C2	September 5, 2017	Kinheng, LEE	Country code table update
D	April 17, 2018	Kinheng, LEE	PUID Requirement (Lot Number vs Serialized Box ID), update PMC (31T) code
E	June 20, 2018	Kinheng, LEE	Replace "Site code" (2 Alpha code) in PMC to match with ISO3166-1 International Std. Add Appendix 2 - PMC "Site Code"
F	July 9, 2018	Kinheng, LEE	Changed the 31T (PMC) from 3x Alpha code to 5x Alpha code. Update the Table 5.3 & Figure 8.8 update
G3	June 13, 2019	Kinheng, LEE	• Update Section 5.5 - Add Compliance Requirement to the PQ Label • Correction: Figure 5.2 Standard PQ Label for Boards • Remove China RoHS from the logo • Add PQ Label Logo (ROHS / Pb Logo) matrix.
H	February 03, 2020	Kinheng, LEE	Add barcode to the PUID (33T) Section 5.6: Linear Barcode Characteristics.
I	April 09, 2020	Kinheng, LEE	Section 5.5: Logo (Removed Label A, B, & C) All PQ label follows Label D
K	December 14, 2020	Kinheng, LEE	Change all linear barcode from Code 39 (full ASCII) to Code 128 Limit the Marketing PN (30P) to 16 characters.

NXP BOARD SOLUTIONS

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1. Objectives

The objective of this procedure is to establish the standardize specification for controlling the NXP PQ Label for Boards.

2. Scope

This procedures applies to all NXP Warehouse, and all Suppliers of Products and/or services for Boards.

3. References

NX3-00131	Specification For Identification Labels

4. Definitions

Data Field	A standardized subject of the label contents. A data field has a name and a description.
Data Element	The information part or value of a data field.
Data Identifier	A specified character string identifying the intended use Identifier of the data field.
Intermediate Box	The box for containing and protecting the final products. The box contains a defined quantity of products: the Packing Quantity (PQ). The PQ-box is also called Inner Box.
PQ	Packing Quantity

5. Procedure

5.1. Responsibility

It is the responsibility of the Supplier to ensure the NXP PQ Labels to follow the label verification requirements, and the requirements are consistently adhered to this procedure.

5.2. Label Material, Specification & Printing

- All PQ Label must be bright white, matte and uncoated paper based material.
- Use the Thermal Transfer (preferred label printer, Intermec PM43 (300x300 dpi), or equivalent)
- Ribbon must be black, and non-smear.

- The nominal **label dimensions are 75mm x 100mm**.

- Ensure a minimum of 1mm spacing at the top and bottom of the PQ Label.
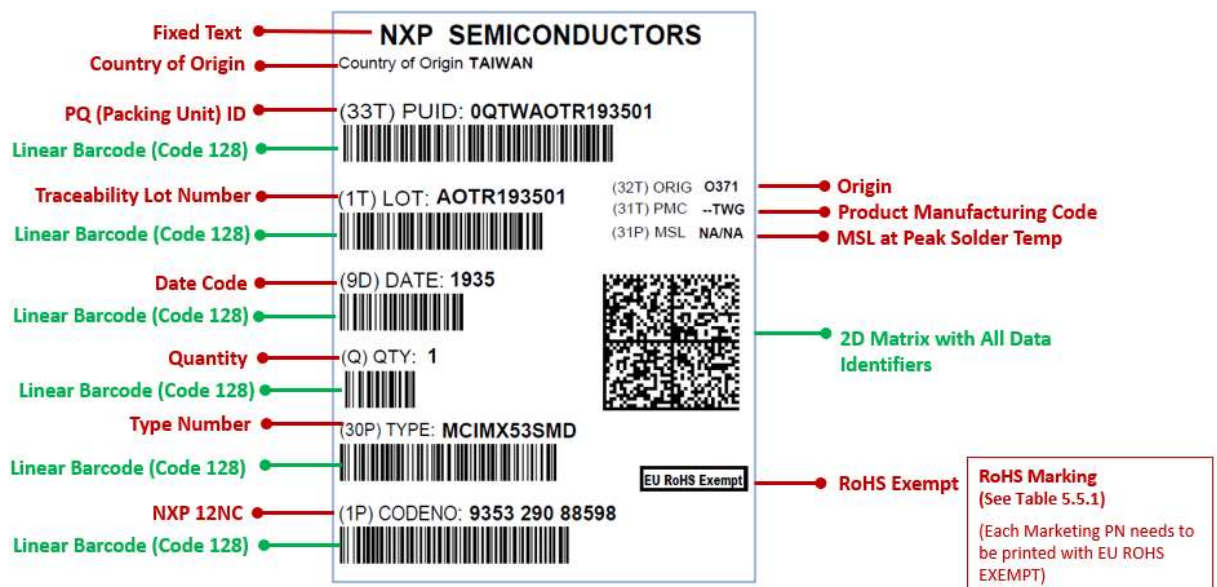- Picture below gives an example of a Standard PQ Label for Boards **(See FIG 5.2)**

FIG 5.2: Standard PQ Label for Boards

5.3. Label Data Definition

Following table (See Table 5.3) provides detailed information about **all fourteen (14) data fields** for final products (for Boards)

All data fields listed in table (See Table 5.3) must be included in 2D Matrix barcode according to the order listed from first (1P) to the last (34T) fields. Any fields marked as "N/A" are included in the 2D Matrix but without value associated.

Data Identifier	Field Name	Max Length	Field Description	Value from Sample Label (See FIG 5.2)	Data Source
1P	CODENO	Max. Char 12	NXP 12NC	9353 289 93598	NXP Agile PDM
30P	TYPE	Max. Char 16	Legacy Freescale Part Number (MPN)	FRDM-KL43Z	NXP Purchase Order
Q	QTY	Max. Char 7	Quantity	1	Provided by Supplier
9D	DATE	Max. Char 4	Manufacturing Date Code	1721	Provided by Supplier
1T	LOT	Max. Char 10	Lot Number	AOTR172102	Provided by Supplier
30T	N/A	N/A	N/A	N/A	N/A
30Q	N/A	N/A	N/A	N/A	N/A
31P	MSL/TEMP	Max. Char 6	MSL and Maximum Soldering Temperature	NA/NA	Based on NXP Agreement established with Supplier
31T	PMC	Max. Char 5	Product Manufacturing Code	- -TWG	See 5.4.6 for requirement
32T	ORIG	Max. Char 4	Origin Identification	O260	See 5.4.7 for requirement
30D	N/A	N/A	N/A	N/A	N/A
31D	N/A	N/A	N/A	N/A	N/A
33T	PUID	Max. Char 17	PUID – Packing Quantity Identification	44T6AOTR172102	See 5.4.8 for requirement
34T	N/A	N/A	N/A	N/A	N/A

TABLE 5.3: NXP PQ Label Data Fields

5.4.   Nomenclature Rules of Applicable Data Fields

5.4.1. (1P) NXP Code No / 12NC

NXP Product Code Number (or, 12NC Code), which belongs to an unique orderable part number specific to NXP

Supplier needs obtain the 12NC information through **NXP Agile PM**, please login to the Agile system search under heading of Marketing Part Number (MPN), go to Title Block > Enovia NXP Attributes > Sales Item (12NC).
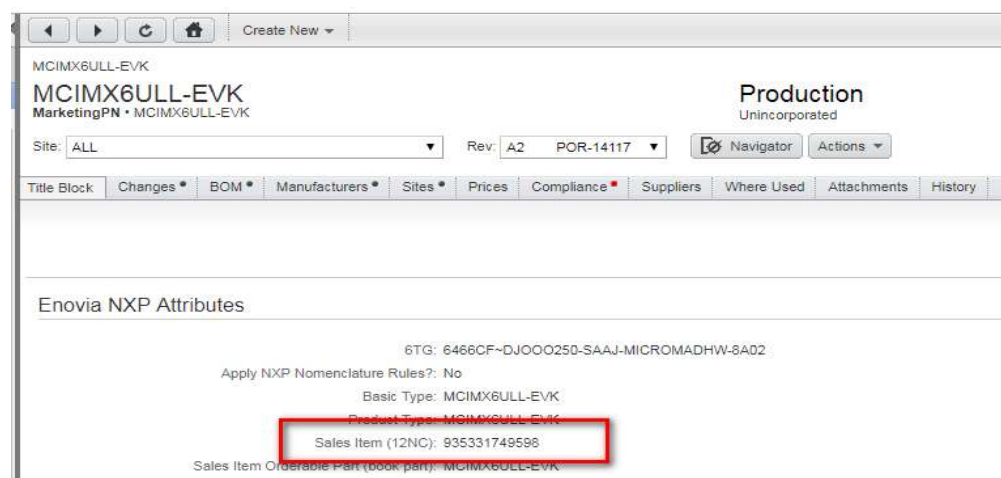

FIG 5.4.1: Search 12NC from Agile PDM

5.4.2. (30P) Type [Legacy Freescale Part Number]

TYPE is an unique marketing part number containing 16 alphanumeric, which also known as "Legacy Freescale Part Number" (MPN) specific to NXP. Supplier needs to follow the MPN as specified in NXP Purchase Orders.

5.4.3. (9D) Manufacturing Date Code

Date Code on which the Product was first manufactured.

YYWW	DATE CODE	Date of Manufacturer (e.g. no WW 53)

5.4.4. (1T) Lot Number

Lot number is an identification number assigned to a particular quantity or lot of product from the Supplier.

Lot number must not be repeated, and unique for each shipment.

RR	VV	YYWW	NN
1	2	3	4

1	RR	REVISION	MPN Revision from NXP Agile PDM "O" is ONLY needed if the REVISION only has one English character
2	VV	VENDOR CODE	Vendor Code supplied by NXP to Supplier
3	YYWW	DATE CODE	Date of Manufacturer (e.g. no WW 53)
4	NN	BATCH CODE	Batch code (increments for each batch shipped (if required). [e.g. 01 to 99]

5.4.5. (31P) MSL and Peak Package Temperature

MSL	**NA**	If no "Moisture Sensitivity Value" is defined.
TEMP	**NA**	If no "Peak Solder Reflow Temperature" Value is defined.

In 2D Matrix Barcode, if Product is "RoHS Compliant", place a "Dash" before the value (e.g. **31P-NA/NA**). Dash is NOT required in the Human Readable 31P field.

ROHS Compliant?	MSL	TEMP	2D Matrix Barcode	Human Readable
YES	NA	260	31P-NA/260	NA/260
NO	NA	260	31PNA/260	NA/260
YES	**NA**	**NA**	**31P-NA/NA**	**NA/NA**
NO	NA	NA	31PNA/NA	NA/NA

5.4.6. (31T) Product Manufacturing Code [PMC]

DD	SS	F
1	2	3

1	DD	Diffusion	Two dashes " - - " (by Default, no spacing)
2	SS	Assembly	Follow "Side Code" (Refer to Table 5.4.7)
3	F	RHF-2006 Code	Based on Pb and RoHS Value (for Board Solutions. (Refer to Table 5.4.6)

FSL Flags	NXP Flags
RoHS = Y + Pb Free = N	RHF-2006 = E
RoHS = Y + Pb Free = Y	RHF-2006 = G
RoHS = N + Pb Free = N	RHF-2006 = N

TABLE 5.4.6: NXP RHF-2006 Code

5.4.7. (32T) Origin

O	XXX
1	2

1	O	"O" prefix is used for All Product to designate Origin
2	XXX	Country of Origin is designated by a "3 Digits Code" assigned by NXP. (Refer to Table 5.4.7, or Appendix A)

Site Code	Country	NXP 3-Digit Code XXX	Site Code	Country	NXP 3-Digit Code XXX
IL	ISRAEL	510	BE	BELGIUM	170
US	USA	130	NL	NETHERLANDS	670
CN	CHINA	260	DE	GERMANY	320
TW	TAIWAN	371	CH	SWITZERLAND	980
KP	KOREA	570			
HK	HONG KONG	451			
PH	PHILIPPINES	770			
MY	MALAYSIA	640			
FR	FRANCE	380			
JP	JAPAN	540			
MX	MEXICO	660			
GB	UNITED KINGDOM	420			
RS	SERBIA	991			
IN	INDIA	470			

TABLE 5.4.7: NXP Side Code & 3-Digit Code

5.4.8. (33T) PUID Code [Packing Unit Identification]

Standard PUID code is controlled by serialization format as specified below:

##	SS	RRVVYYWWNN
1	2	3

An alternative format of the PUID code is available and conditionally accepted given that the **same PUID code must not be reused in the same or different products. It must be assigned with an unique PUID code to each lot for each shipment to NXP.**

Alternative PUID Code		
NN	SS	RRVVYYWWNN
1	2	3

1	##	Box ID (Preferred)	Two (2) Alphanumeric value (0 − 9, plus 26 English characters (A to Z), using the Base-36 Serialization. Refer to matrix below as reference guide for the Box ID assignment. (Refer to Table 5.4.8)
1	NN	BATCH CODE	Batch code (increments for each batch shipped (if required). [e.g. 01 to 99]
2	SS	Side Code	(Refer to Table 5.4.7)
3	RRVVYYWWNN	Lot Number	Lot number must not be repeated, and unique for each shipment. (Refer to Section 5.4.4)

Base-10 (Number of Box)	Base-36	PUID Box ## Alphanumeric Value	Base-10 (Number of Box)	Base-36	PUID Box # Alphanumeric Value
01	01	**01**	36	10	**10**
02	02	**02**	37	11	**11**
03	03	**03**	38	12	**12**
04	04	**04**	...	...	**...**
05	05	**05**	71	1Z	**1Z**
06	06	**06**	72	20	**20**
07	07	**07**	73	21	**21**
08	08	**08**	...	...	**...**
09	09	**09**	107	2Z	**2Z**
10	0A	**0A**	108	30	**30**
11	0B	**0B**	...	...	**...**
12	0C	**0C**	143	3Z	**3Z**
13	0D	**0D**	144	40	**40**
14	0E	**0E**	...	...	**...**
...	...	**...**	...	...	**...**
35	0Z	**0Z**	1295	ZZ	**ZZ**

TABLE 5.4.8: Base 36 Serialization Coding for Box ID (##)

5.5.   Logo

Per NXP Barcode Specification (NX3-00131), the following Logos is required on PQ label. Refer to FIG 5.2 for location of the logos.

EU RoHS Exempt	EU RoHS Exempt	Always to be printed if the Marketing PN claims exemption to RoHS compliance. No Pb-Free logo.

Each Marketing Part Number (MPN) needs to be printed based on Label D format.

Label D
EU RoHS Exempt

NXP SEMICONDUCTORS

Country of Origin **USA**

(33T) PUID: **0VUSX1AX204504**

(1T) LOT: **X1AX204504**

(32T) ORIG **O130**
(31T) PMC **--USG**
(31P)

(9D) DATE: **2045**

MSL **NA/NA**

(Q) QTY: **1**

(30P) TYPE: **OM5578/PN7150RPI**

(1P) CODENO: **9353 090 76699**

EU RoHS Exempt

5.6.   Linear Barcode Characteristics

<mark>The barcode symbology is **Code 128**,</mark> with the standard sets (Numeric $0 - 9$, 26x English characters A to Z, and special characters) according to the standard (AIM) USS-39.

The barcode density is 7 characters per 2.5 cm nominal.

The barcode elements need Keep-Out Zones around the barcode. The horizontal q Keep-Out Zones at both ends is 5 mm. The vertical Keep-Out Zones above and below the barcode element is minimum 1 mm.

- **The minimum height of a bar is 6.35 mm.**
- Code 128
- Ration = 2.0.1
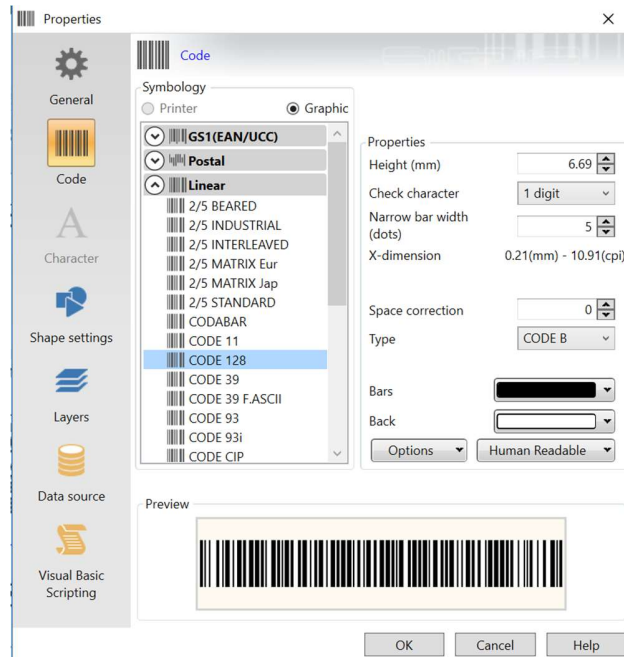
5.7. Human Readable Text

The human readable text of a Data Field consists of the value of the Data Element. The human readable text shall be placed as shown in FIG 5.2.

The human readable text shall be printed in **uppercase only**, with a **nominal height of 2.5 mm**, using **an Arial font** (as shown in the example in FIG 5.2) unless for technical reasons this is not available. In that case the most resembling font that is available must be chosen. The Data Element of the "PMC" field can contain lower case letters

5.8. 2D Matrix Barcode

The 2D Symbology is square Data Matrix ECC-200, with 0,5 mm cell size.

The 2D symbol data structure starts with a Message Header (7 characters "[)>^R_S06^G_S") and ends with a Message Trailer (2 characters "$^R_S$$^E_O$$_T$") as specified in ISO/IEC 15434. The "^G_S" character is used to separate the Data Fields in the 2D Symbology.

The "^R_S"character is ASCII/ISO 646 Decimal 30. The "$^E_O$$_T$" character is ASCII/ISO 646 decimal 04. The "^G_S" character is ASCII/ISO 646 Decimal 29.

The 2D symbol data structure starts with a Message Header (7 characters "[)>^R_S06^G_S") and ends with a Message Trailer (2 characters "$^R_S$$^E_O$$_T$") as specified in ISO/IEC 15434. The "^G_S" character is used to separate the Data Fields in the 2D Symbology.

Data Matrix Rules

Dec	Example Code In Barcode System	Coding used in Software	Description
91	[	char(91)	Left Bracket
41	)	char(41)	Right Parenthesis
62	>	char(62)	Greater than
29	"G_S"	char(29)	Group Separator
30	"R_S"	char(30)	Record Separator
04	"E_{O_T}")	char(04)	End of Transmission

	E	F	G	H	I	J	K	L	M
1	(1T)LOT	(9D)DATE	(Q)QTY	(30P)TYPE	(1P)CODENO	(32T)ORIG	(31T)PMC	(31P)MSL	DATA MATRIX
2	AONX173011	1730	1	LS2088ARDB-PB	935346255598	O371	TIG	NA/NA	[)>061P93534625559830PLS2088ARDB-PBQ19D17301TAONX17301130T30Q31P-NA/NA31TTIG32TO37130D31D33T01TIAONX17301134T
3									

The data fields in the 2D symbol are located at a fixed sequence, from Top to Bottom, according to **TABLE 5.3: NXP PQ Label Data Fields**. The data fields contain the data identifier, as indicated in TABLE 5.3, followed by the value. The data identifier <u>without a value indicates an empty data field</u>.

The 2D symbol shall have a minimum Keep-Out zone of 1,0 mm.

<u>Example: 2D Barcode</u> (follows the 2D Matrix information shown in **FIG 5.2**)
"[)>R_S06$_{G_S}$1P**935328993598**$_{G_S}$30P**FRDM-KL43Z**$_{G_S}$Q**1**$_{G_S}$9D**1721**$_{G_S}$1T**AOTR172102**$_{G_S}$30T$_{G_S}$30Q$_{G_S}$31P-**NA/NA**$_{G_S}$31T- -**TWG**$_{G_S}$32T**O371**$_{G_S}$30D$_{G_S}$31D$_{G_S}$33T**44T6AOTR172102** $_{G_S}$34T$_{R_S}{}^{E}$O$_T$"
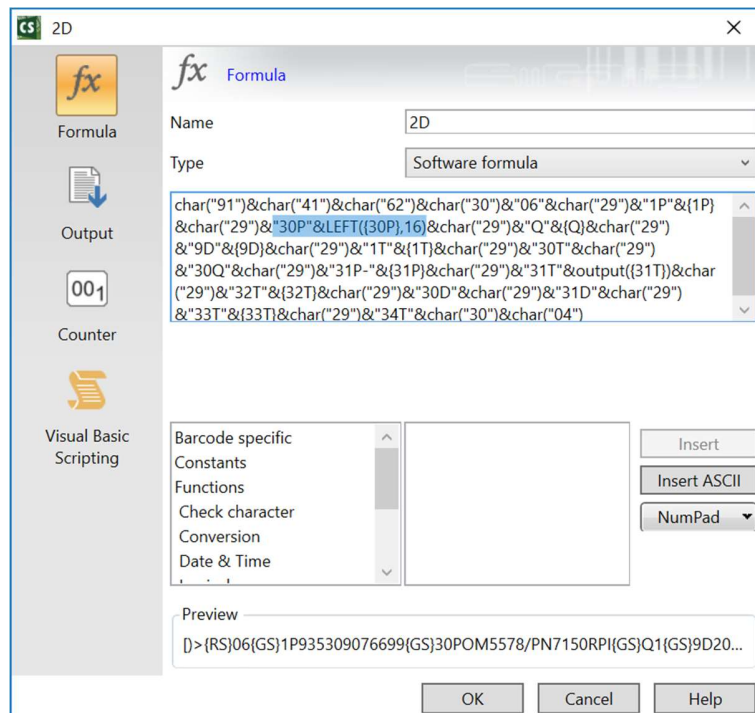
FIG 5.8: 2D Barcode Formula Coding
(Limit 30P – Marketing PN with 16 character max.)

5.9.   Printing PQ Label Using Offline CodeSoft 2015 Software

The following instruction will guide the user on how to print the PQ Label using the CodeSoft 2015 Software.

5.9.1. Download CodeSoft from TEKLYNX

A free 30 days trial of the Codesoft 2015 (or higher) is available from the official website (https://www.teklynx.com), and search under heading of Products, and go to Label Design Solutions > Codesoft to download the software.

If license purchase is required, please contact Teklynx for Codesoft Professional or Enterprise Edition.

5.9.2. Install Codesoft to Local PC

Run the Codesoft 2015 (or higher) installer on your local PC, and complete the installation.

### 5.9.3. PQ Label Standard Template (805-77462)

User can download the standard template – NXP PQ Label (*.lab format) from Agile **NXP Agile PM**, please login to the Agile system search under 805-77462 of, go to Attachment Tab to download the "805-77462.lab", and Save to your local drive.
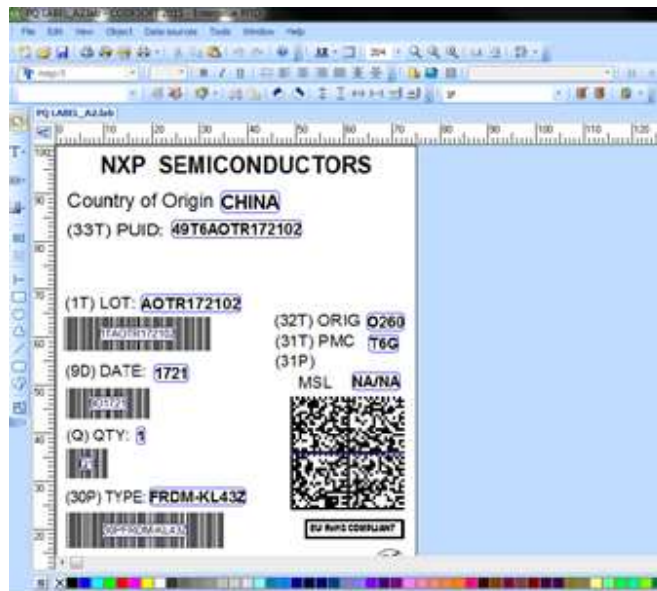
5.9.4. Print PQ Label

I.   Click to open the "**CodeSoft 2015**"
II.   Select "**Open an Existing label**" from the Pop up menu.
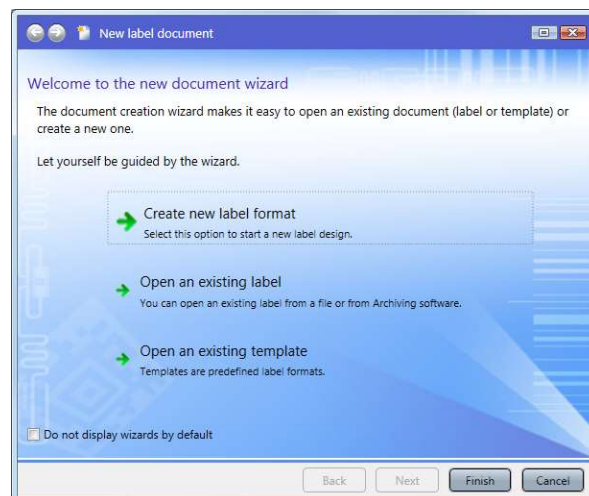
III. Click "**Open a label from a file**", the select the "805-77462.lab" from the drive (e.g. C drive). Then, click "**Open**".
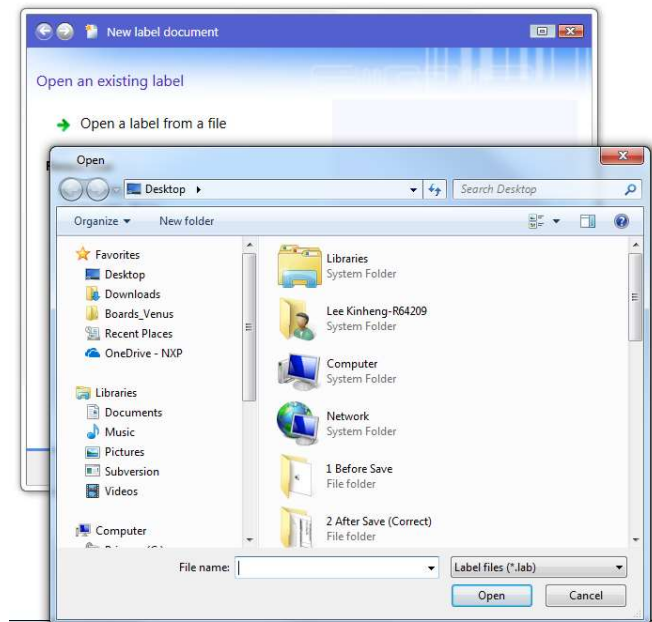

IV. CodeSoft now open the PQ Label

V. Press "**F5**" to select the Printer. Then, Click "OK" to proceed.

(If Printer not founded from the list, please setup install the proper "Printer Driver" according to the manufacturer and model of your Printer available

on your shopfloor, and make sure the Printer is connected to your local network before proceed)

User can add the Printer by clicking "Add", and follow the "Add Printer" setup wizards.
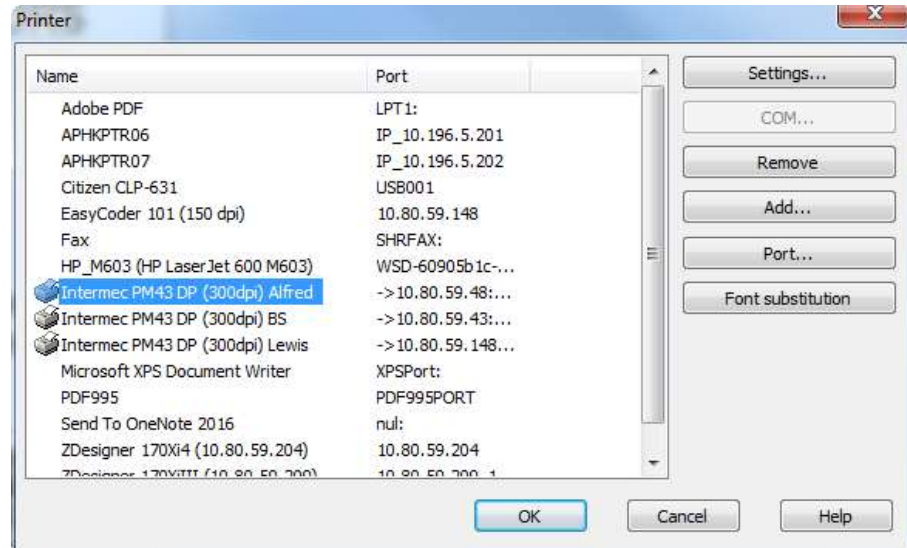
VI.   To "**RESET**" the <u>Box ID (##) of the PUID</u> (counter to start from 01 ….) as specified in Section 5.4.8. User needs to go to Menu, select Data Sources > Counter > 33Ta > Properties..
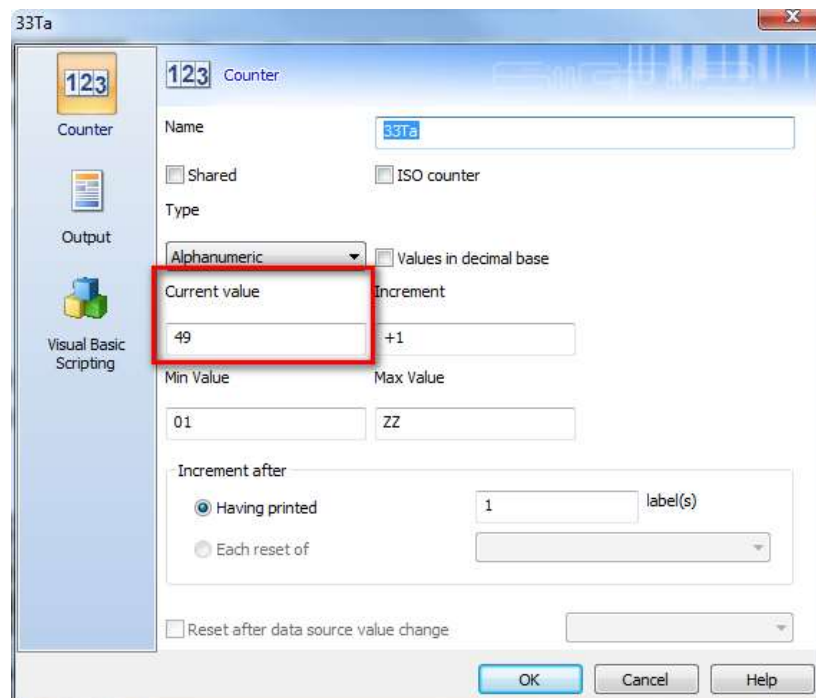
Reset the "Current Value" from any current value (e.g. 49) shown to "**01**". Make sure 2 digits entered.

Press "**OK**" to finish.

VII.   Press "**CTRL-P**" to print the PQ Label, and Select "**Form**" from the tab.

VIII.   Enter the **all data fields entries** (e.g. 1T, 9D, 30P, 1P, 32T, 31T, 31P, Q and Country of Origin) shown below.

IX.   Once completed the data fields entries, Press "**Print**" to proceed.

5.10. PQ Label Location

PQ Label location should be targeted to the location as specified in the Packing Instruction (PKG-XXXXX)

If folding to PQ Label is required, the folding line CANNOT be across any Linear, or 2D Matrix barcode, so is either directly above or below the 2D Matrix. Folding across Human readable text is allowed.

FIG 5.10: New NXP PQ Label Location (compared with PDC Label)

APPENDIX 1: NXP 3-Digits Code - "Country Of Origin" Code In Numeric

CODE	COUNTRY	CODE	COUNTRY	CODE	COUNTRY
102	AFGHANISTAN	260	CHINA	440	HAITI
120	ALBANIA	268	CHRISTMAS ISLAND	441	HEARD ISL AND MCDONALD ISL
122	ALGERIA	269	COCOS (KEELING) ISLANDS	443	HONDURAS
123	AMERICAN SAMOA	270	COLOMBIA	444	GUINEA
125	ANDORRA	278	COMOROS	450	HUNGARY
130	UNITED STATES	279	COOK ISLANDS	451	HONG KONG
136	ANGOLA	280	COSTA RICA	460	IRELAND
137	ANGUILLA	281	CONGO	470	INDIA
138	ANTARCTICA	290	CUBA	480	INDONESIA
139	ANTIGUA AND BARBUDA	292	CYPRUS	490	IRAQ
140	ARGENTINA	295	BENIN	500	IRAN
145	ARMENIA	300	DENMARK	510	ISRAEL
150	AUSTRALIA	310	DOMINICAN REPUBLIC	520	ITALY
155	PAPUA NEW GUINEA	311	DOMINICA	530	JAMAICA
156	AZERBAIJAN	320	GERMANY	532	COTE D'IVOIRE
157	BAHAMAS	330	ECUADOR	540	JAPAN
158	BAHRAIN	340	EGYPT	542	YEMEN
159	BANGLADESH	356	EQUATORIAL GUINEA	551	JORDAN
161	BARBADOS	357	ERITREA	552	CAPE VERDE
170	BELGIUM	358	ESTONIA	555	CAMEROON
175	CONGO DEMOCRATIC	360	ETHIOPIA	557	KAZAKHSTAN
177	BERMUDA	361	FALKLAND ISLANDS (MALVINAS)	559	KENYA
180	MYANMAR	362	FAROE ISLANDS	562	KUWAIT
182	BUTAN	365	FIJI	569	KOREA Democratic People's Rep
183	BOTSWANA	370	FINLAND	570	KOREA, Republic of
190	BOLIVIA	371	TAIWAN	571	CROATIA
192	BOUVET ISLAND	380	FRANCE	573	KYRGYZSTAN
200	BRAZIL	387	FRENCH GUIANA	574	LAO People's Democratic Rep.
205	BRUNEI DARUSSALAM	393	FRENCH POLYNESIA	580	LATVIA
206	GUYANA	394	FRENCH SOUTHERN TERRITORIES	590	LEBANON
207	BELIZE	395	DJIBOUTI	599	LESOTHO
209	BRITISH INDIAN OCEAN TERR	396	GEORGIA	600	LIBERIA
216	VIRGIN ISLANDS (BRITISH)	397	GABON	609	LIECHTENSTEIN
218	BOSNIA AND HERZEGOVINA	398	GAMBIA	610	LIBYAN ARAB JAMAHIRIYA
219	BURUNDI	399	GHANA	620	LITHUANIA
220	BULGARIA	400	GIBRALTAR	625	MACEDONIA
222	CAMBODIA	405	KIRIBATI	630	LUXEMBOURG
230	CANADA	410	GREECE	632	MADAGASCAR

235	CANARY ISLANDS	411	GREENLAND	633	MACAU
237	CAYMAN ISLANDS	415	GRENADA	635	MALAWI
240	SRI LANKA	420	UNITED KINGDOM	636	MALI
243	CENTRAL AFRICAN REPUBLIC	425	GUADELOUPE	637	MALDIVES
247	CHAD	426	GUAM	640	MALAYSIA
250	CHILE	427	GUATEMALA	641	MALTA
642	MARSHALL ISLANDS	795	QATAR	929	US MINOR OUTLYING ISLS
644	MOROCCO	797	REUNION	930	URUGUAY
648	MARTINIQUE	798	ZIMBABWE	931	UZBEKISTAN
650	MAURITANIA	810	ROMANIA	932	HOLY SEE (VATICAN CITY)
651	MAURITIUS	812	RUSSIAN FEDERATION	940	VENEZUELA
653	MAYOTTE	815	RWANDA	941	VIET NAM
655	MONACO	820	EL SALVADOR	943	VIRGIN ISLANDS (U.S.)
657	MONGOLIA	855	SAINT HELENA	945	BELARUS
660	MEXICO	845	SAINT KITTS AND NEVIS	950	ICELAND
666	MICRONESIA	846	SAINT LUCIA	954	ZAMBIA
667	MOLDOVA	860	SAINT PIERRE AND MIQUELON	960	SOUTH AFRICA
668	MONTSERRAT	847	SAINT VINCENT/THE GRENADINES	968	S. GEORGIA S. SANDW ISLS
669	MOZAMBIQUE	953	SAMOA	969	WALLIS AND FUTUNA ISLS
670	NETHERLANDS	848	SAN MARINO	970	SWEDEN
681	NETHERLANDS ANTILLES	794	SAO TOME AND PRINCIPE	980	SWITZERLAND
682	NEPAL	824	SAUDI ARABIA	991	SERBIA
683	ARUBA	826	SENEGAL		
690	NICARAGUA	828	SEYCHELLES		
692	NEW CALEDONIA	830	SINGAPORE		
694	VANUATU	833	SIERRA LEONE		
696	NAMIBIA	835	SUDAN		
697	NIGER	836	SOLOMON ISLANDS		
698	NAURU	839	SOMALIA		
700	NEW ZEALAND	841	SLOVAKIA		
701	NIGERIA	844	WESTERN SAHARA		
703	NIUE	850	SPAIN		
705	NORFOLK ISLAND	866	SWAZILAND		
707	NORTH MARIANA ISLANDS	870	SURINAME		
710	NORWAY	872	SVALBARD AND JAN MAYEN		
713	UGANDA	880	SYRIAN ARAB REPUBLIC		
715	OMAN	882	TAJIKISTAN		
716	UNITED ARAB EMIRATES	883	TANZANIA		
720	AUSTRIA	884	SPANISH NORTH AFRICA		
730	PAKISTAN	890	THAILAND		
733	PALAU	897	TOGO		
735	PALESTINE	898	TONGA		
740	PANAMA	899	TOKELAU		
750	PARAGUAY	901	TRINIDAD AND TOBAGO		
760	PERU	910	CZECH REPUBLIC		

770	PHILIPPINES	**911**	TUNISIA		
772	PITCAIRN	**915**	TURKS AND CAICOS ISLS		
780	POLAND	**920**	TURKEY		
782	PUERTO RICO	**923**	TURKMENISTAN		
790	PORTUGAL	**925**	TUVALU		
791	EAST TIMOR	**927**	BURKINA FASO		
792	GUINEA-BISSAU	**928**	UKRAINE		

APPENDIX 2: PMC "Site Code" (ISO3166-1 International Standard)

COUNTRY	Alpha-2 code
Afghanistan	AF
Åland Islands	AX
Albania	AL
Algeria	DZ
American Samoa	AS
Andorra	AD
Angola	AO
Anguilla	AI
Antarctica	AQ
Antigua and Barbuda	AG
Argentina	AR
Armenia	AM
Aruba	AW
Australia	AU
Austria	AT
Azerbaijan	AZ
Bahamas (the)	BS
Bahrain	BH
Bangladesh	BD
Barbados	BB
Belarus	BY
Belgium	BE
Belize	BZ
Benin	BJ
Bermuda	BM
Bhutan	BT
Bolivia (Plurinational State of)	BO
Bonaire, Sint Eustatius and Saba	BQ
Bosnia and Herzegovina	BA
Botswana	BW
Bouvet Island	BV
Brazil	BR
British Indian Ocean Territory (the)	IO
Brunei Darussalam	BN
Bulgaria	BG
Burkina Faso	BF
Burundi	BI
Cabo Verde	CV
Cambodia	KH

Cameroon	CM
Canada	CA
Cayman Islands (the)	KY
Central African Republic (the)	CF
Chad	TD
Chile	CL
China	CN
Christmas Island	CX
Cocos (Keeling) Islands (the)	CC
Colombia	CO
Comoros (the)	KM
Congo (the Democratic Republic of the)	CD
Congo (the)	CG
Cook Islands (the)	CK
Costa Rica	CR
Côte d'Ivoire	CI
Croatia	HR
Cuba	CU
Curaçao	CW
Cyprus	CY
Czechia	CZ
Denmark	DK
Djibouti	DJ
Dominica	DM
Dominican Republic (the)	DO
Ecuador	EC
Egypt	EG
El Salvador	SV
Equatorial Guinea	GQ
Eritrea	ER
Estonia	EE
Ethiopia	ET
Falkland Islands (the) [Malvinas]	FK
Faroe Islands (the)	FO
Fiji	FJ
Finland	FI
France	FR
French Guiana	GF
French Polynesia	PF
French Southern Territories (the)	TF
Gabon	GA
Gambia (the)	GM

Georgia	GE
Germany	DE
Ghana	GH
Gibraltar	GI
Greece	GR
Greenland	GL
Grenada	GD
Guadeloupe	GP
Guam	GU
Guatemala	GT
Guernsey	GG
Guinea	GN
Guinea-Bissau	GW
Guyana	GY
Haiti	HT
Heard Island and McDonald Islands	HM
Holy See (the)	VA
Honduras	HN
Hong Kong	HK
Hungary	HU
Iceland	IS
India	IN
Indonesia	ID
Iran (Islamic Republic of)	IR
Iraq	IQ
Ireland	IE
Isle of Man	IM
Israel	IL
Italy	IT
Jamaica	JM
Japan	JP
Jersey	JE
Jordan	JO
Kazakhstan	KZ
Kenya	KE
Kiribati	KI
Korea (the Democratic People's Republic of)	KP
Korea (the Republic of)	KR
Kuwait	KW
Kyrgyzstan	KG
Lao People's Democratic Republic (the)	LA

Latvia	LV
Lebanon	LB
Lesotho	LS
Liberia	LR
Libya	LY
Liechtenstein	LI
Lithuania	LT
Luxembourg	LU
Macao	MO
Macedonia (the former Yugoslav Republic of)	MK
Madagascar	MG
Malawi	MW
Malaysia	MY
Maldives	MV
Mali	ML
Malta	MT
Marshall Islands (the)	MH
Martinique	MQ
Mauritania	MR
Mauritius	MU
Mayotte	YT
Mexico	MX
Micronesia (Federated States of)	FM
Moldova (the Republic of)	MD
Monaco	MC
Mongolia	MN
Montenegro	ME
Montserrat	MS
Morocco	MA
Mozambique	MZ
Myanmar	MM
Namibia	NA
Nauru	NR
Nepal	NP
Netherlands (the)	NL
New Caledonia	NC
New Zealand	NZ
Nicaragua	NI
Niger (the)	NE
Nigeria	NG
Niue	NU
Norfolk Island	NF

Northern Mariana Islands (the)	MP
Norway	NO
Oman	OM
Pakistan	PK
Palau	PW
Palestine, State of	PS
Panama	PA
Papua New Guinea	PG
Paraguay	PY
Peru	PE
Philippines (the)	PH
Pitcairn	PN
Poland	PL
Portugal	PT
Puerto Rico	PR
Qatar	QA
Réunion	RE
Romania	RO
Russian Federation (the)	RU
Rwanda	RW
Saint Barthélemy	BL
Saint Helena, Ascension and Tristan da Cunha	SH
Saint Kitts and Nevis	KN
Saint Lucia	LC
Saint Martin (French part)	MF
Saint Pierre and Miquelon	PM
Saint Vincent and the Grenadines	VC
Samoa	WS
San Marino	SM
Sao Tome and Principe	ST
Saudi Arabia	SA
Senegal	SN
Serbia	RS
Seychelles	SC
Sierra Leone	SL
Singapore	SG
Sint Maarten (Dutch part)	SX
Slovakia	SK
Slovenia	SI
Solomon Islands	SB
Somalia	SO
South Africa	ZA

South Georgia and the South Sandwich Islands	GS
South Sudan	SS
Spain	ES
Sri Lanka	LK
Sudan (the)	SD
Suriname	SR
Svalbard and Jan Mayen	SJ
Swaziland	SZ
Sweden	SE
Switzerland	CH
Syrian Arab Republic	SY
Taiwan (Province of China)	TW
Tajikistan	TJ
Tanzania, United Republic of	TZ
Thailand	TH
Timor-Leste	TL
Togo	TG
Tokelau	TK
Tonga	TO
Trinidad and Tobago	TT
Tunisia	TN
Turkey	TR
Turkmenistan	TM
Turks and Caicos Islands (the)	TC
Tuvalu	TV
Uganda	UG
Ukraine	UA
United Arab Emirates (the)	AE
United Kingdom of Great Britain and Northern Ireland (the)	GB
United States Minor Outlying Islands (the)	UM
United States of America (the)	US
Uruguay	UY
Uzbekistan	UZ
Vanuatu	VU
Venezuela (Bolivarian Republic of)	VE
Viet Nam	VN
Virgin Islands (British)	VG
Virgin Islands (U.S.)	VI
Wallis and Futuna	WF
Western Sahara*	EH

Yemen	YE
Zambia	ZM
Zimbabwe	ZW