CYPRESS MARKING FORMAT

July 2017

▪Note:

▪The diagrams are provided for illustrative purposes only. Please note that the actual marking format may vary depending on package size, type and pin count. Should you have any other concerns and questions, feel free to contact your local CY sales representative. Markings for costumed parts CS/CG, acquired and buy-in parts are not included on this document.

▪The diagrams below is based on the latest Cypress Marking Spec 37-00001 Rev.. JB

LEGEND:

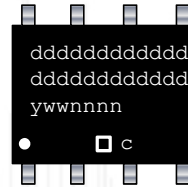| Character	Meaning	Remarks
b	Blank Space	
d	Marketing Part Number	
lll	CYP	ll = CY lllllll = CYPRESS
ff	Fab Location	
rr	Backend Part Revision	
yyww	Date Code	yy = last two digit of the year ww = Workweek
nnnnnn	Mark Lot Number	nnnnnn = First and last five digits of Mark Lot Number nnnn = last four digit of Mark Lot Number
xxx	Country of Origin	xxxx = COO with "." at the end Ex. PHI.
C	Copper Wire Part	

SOIC 8L

Using Gold (Au) Wire
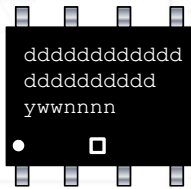
1st line (12 characters) is the marketing part number

2nd line (10 characters) is the rest of the marketing part number

3rd line (7 characters) is the date code and lot code.

```
dddddddddddd
dddddddddd
ywwnnnn
```

Using Copper (Cu) Wire

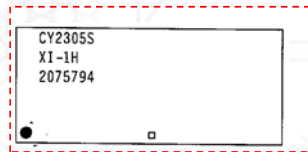1st line (12 characters) is the marketing part number

2nd line (10 characters) is the rest of the marketing part number

3rd line (7 characters) is the date code and lot code.

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

```
dddddddddddd
dddddddddddd
ywwnnnn
    □ c
```

Example Marking Format: CY2305SXI-1H

:Line 1: CY2305S
Line 2: XI-1H
Line 3: 2075794

```
CY2305S
XI-1H
2075794
```

Note:

1. First line to mark the marketing part number before the first S character.
2. 2nd line the rest of the marketing part number.
3. 3rd line ywwnnnn where y= last digit of the year ww= work week nnnn= last four digits of the lot number.
4. If the marketing part number has more than 7 characters before the S than the first 7 characters will print on line 1 with the remaining 7 characters wrapping to line 2.

Packages :
• SOIC 8 - 150 mils

Reference: 37-00001, Figure 45

SOIC 14L/SOIC 16L

Using Gold (Au) Wire

```
dddddddddddddddd
dddbyywwbffbrr
xxxblllbnnnnnn
```

1st line (16 characters) is the marketing part number

2nd line (14 characters) is the date code, fab site and backend revision

3rd line is the COO, 'CYP' and lot code.

Using Copper (Cu) Wire

```
dddddddddddddddd
dddbyywwbffbrr
xxxblllbnnnnnn
```

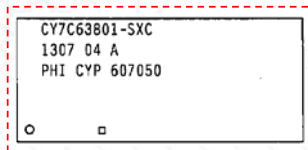1st line (16 characters) is the marketing part number

2nd line (14 characters) is the date code, fab site and backend revision

3rd line is the COO, 'CYP' and lot code.

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C63801-SXC.

Line 1: CY7C63801-SXC
Line 2: 1307 04 A
Line 3: PHI CYP 607050

```
CY7C63801-SXC
1307 04 A
PHI CYP 607050
```

Note:

1. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN separated with a blank then wrap the rrff to the left
2. If BE Part Rev has only one character, use rbff format instead of rrff
3. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Packages :
- SOIC 14 - 150 mils
- SOIC 16 - 150 mils

Reference: 37-00001, Figure 33

CYPRESS
EMBEDDED IN TOMORROW

SOIC 16L/SOIC 18L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn      □
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN separated with a blank then wrap the rrff to the left.

3rd line is the date code, backend revision and fab site. If BE Part Rev has only one character, use rbff format instead of rrff

4th line is the lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn      □ c
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN separated with a blank then wrap the rrff to the left.

3rd line is the date code, backend revision and fab site. If BE Part Rev has only one character, use rbff format instead of rrff
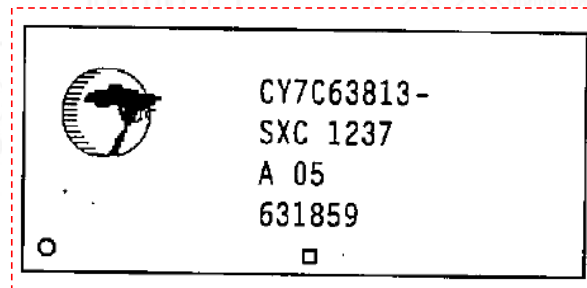
4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C63801-SXC.

Line 1: CY7C63813-
Line 2: SXC 1237
Line 3: A 05
Line 4: 631859

Note:
1. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.
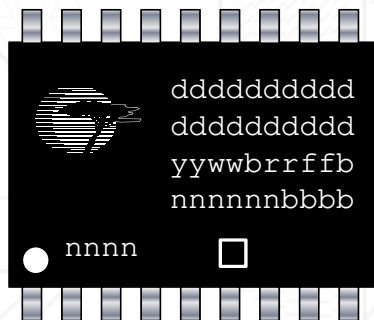
```
CY7C63813-
SXC 1237
A 05
631859
```

Packages :
*   SOIC 16L – 300 mils
*   SOIC 16L - 300 mils

Reference: 37-00001, Figure 4

SOIC 20L/SOIC 24L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn        □
```
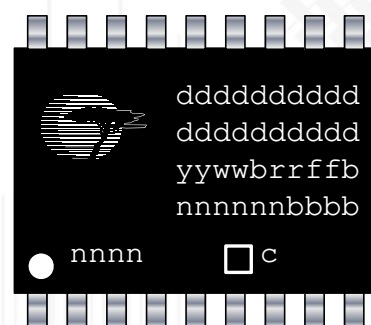
Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn        □ c
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number.

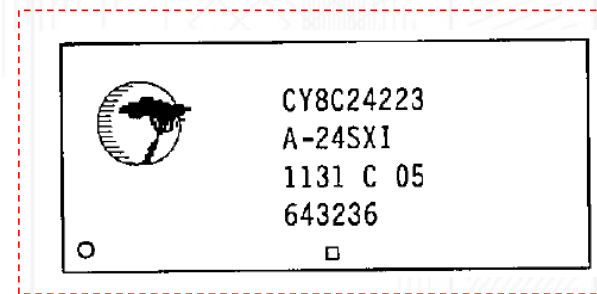3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8C24223A-24SXI

Line 1: CY8C24223
Line 2: A-24SXI
Line 3: 1131 C 05
Line 4: 643236

Note:
1. If Mkt. PN is >10 char, break the Mkt. PN after the 10th character then move the remaining characters on the second line.
2. If the dash ("-") falls in any character before the 10th character, break the Mkt. PN after the dash then move the remaining characters to the second line.
3. If characters "A", "C", or "P" falls in any characters before the 10th character, break the Mkt. PN after "A", "C", or "P" characters then move the remaining characters on the second line.

```
CY8C24223
A-24SXI
1131 C 05
643236
○            □
```

Reference: 37-00001, Figure 5

CYPRESS
EMBEDDED IN TOMORROW

SOIC 28L/SOIC 44L

Using Gold (Au) Wire

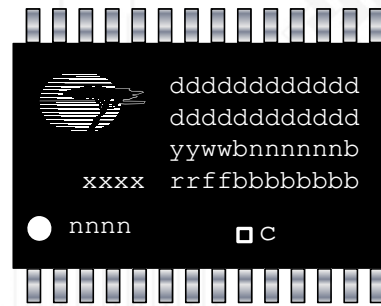Lines 1 – 4: 12 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN is ≤12 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code and lot code

4th line is the backend revision and fab site. If BE Part Rev has only one character, then use rbff format instead of rrff.

xxxx – Country of Origin (COO) – for Packages with no engraved COO.

Using Copper (Cu) Wire

Lines 1 – 4: 12 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN is ≤12 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code and lot code

4th line is the backend revision and fab site. If BE Part Rev has only one character, then use rbff format instead of rrff.

xxxx – Country of Origin (COO) – for Packages with no engraved COO.

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C65113C-SXC

Line 1: CY7C65113C-
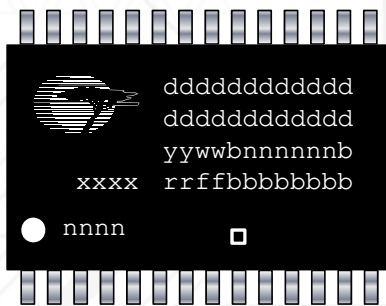Line 2: SXC
Line 3: 1137 647027
Line 4: PHI G 23
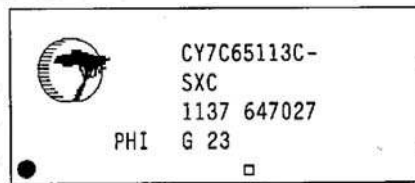
Note:
1. If Mkt. PN is >12 characters, break the Mkt. PN after the 12th character then move the remaining characters to the second line.
2. If the dash ("-") falls in any character before the 12th character, break the Mkt. PN after the dash ("-") then move the remaining character to the second line.
3. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Packages :
• SOIC 28 - 300/400/450 mils
• SOIC 44 - 300/400/450 mils

Reference: 37-00001, Figure 6

SOIC 28L/SOIC 44L (SNC – GULL WING)

Using Gold (Au) Wire

ddddddddddd
ddddddddddd
yywwbnnnnnnb
xxxx   rrffbbbbbbbb
● nnnn   ☐

Lines 1 – 4: 12 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN is ≤12 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code and lot code

4th line is the backend revision and fab site. If BE Part Rev has only one character, then use rbff format instead of rrff.

xxxx – Country of Origin (COO) – for Packages with no engraved COO.

Using Copper (Cu) Wire

ddddddddddd
ddddddddddd
yywwbnnnnnnb
xxxx   rrffbbbbbbbb
● nnnn   ☐ C

Lines 1 – 4: 12 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN is ≤12 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code and lot code

4th line is the backend revision and fab site. If BE Part Rev has only one character, then use rbff format instead of rrff.

xxxx – Country of Origin (COO) – for Packages with no engraved COO.

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY62256EV18LL-70SNXI

Line 1: CY62256EV18L
Line 2: L-70SNXI
Line 3: 1125 635328
Line 4: PHI F 04
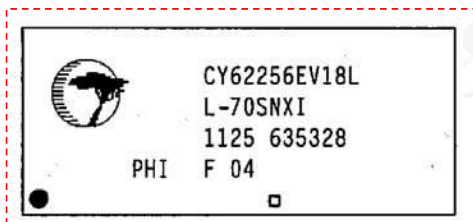
CY62256EV18L
L-70SNXI
1125 635328
PHI F 04

Note:
1. If Mkt. PN is >12 characters, break the Mkt. PN after the 12th character then move the remaining characters to the second line.
2. If the dash ("-") falls in any character before the 12th character, break the Mkt. PN after the dash ("-") then move the remaining character to the second line.
3. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Packages :
• SOIC 28 - 300/400/450 mils
• SOIC 44 - 300/400/450 mils

Reference: 37-00001, Figure 6

CYPRESS
EMBEDDED IN TOMORROW

SOJ 16L/SOJ 18L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn        ☐
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn        ☐ c
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number.

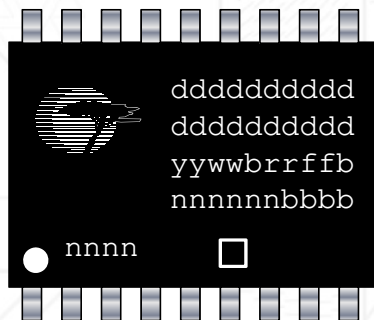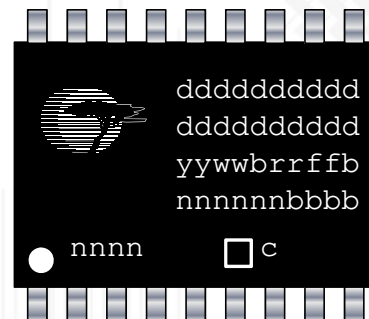3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

No Example Available

Packages :
- SOJ16 - 300 mils
- SOJ18 -   300 mils

Reference: 37-00001, Figure 4

CYPRESS
EMBEDDED IN TOMORROW

SOJ 20L/SOJ 24L

Using Gold (Au) Wire

```
  dddddddddd
  dddddddddd
  yywwbrrffb
  nnnnnnbbbb
nnnn    □
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

```
  dddddddddd
  dddddddddd
  yywwbrrffb
  nnnnnnbbbb
nnnn    □ c
```

Lines 1 – 4: 10 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C128A-20VXC

Line 1: CY7C128A-
Line 2: 20VXC 1131
Line 3: F 02
Line 4: 643588

Note:
1. If Mkt. PN is >10 char, break the Mkt. PN after the 10th character then move the remaining characters on the second line.
2. If the dash ("-") falls in any character before the 10th character, break the Mkt. PN after the dash then move the remaining characters to the second line.
3. If characters "A", "C", or "P" falls in any characters before the 10th character, break the Mkt. PN after "A", "C", or "P" characters then move the remaining characters on the second line.

```
CY7C128A-
20VXC 1131
F 02
643588
```

Reference: 37-00001, Figure 5
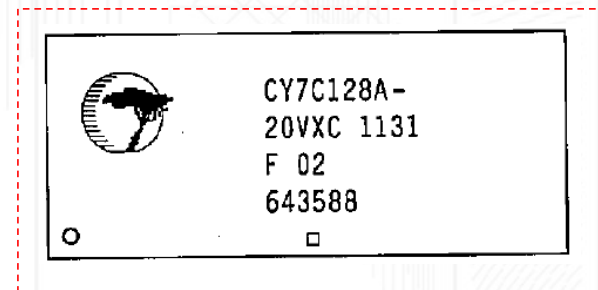
SOJ 28L - SOJ 44L

Using Gold (Au) Wire
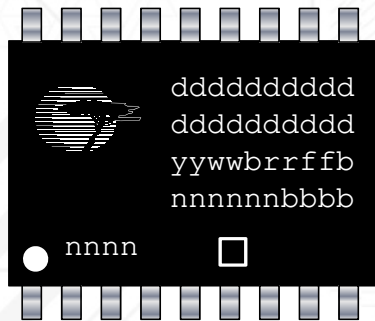
dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn ☐

Lines 1 – 4: 12 characters per line
Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN and date code.

3rd line is the backend revision, fab site, and lot code

Using Copper (Cu) Wire

dddddddddd
dddddddddd
yywwbrrffb
nnnnnnbbbb
nnnn ☐c

Lines 1 – 4: 12 characters per line
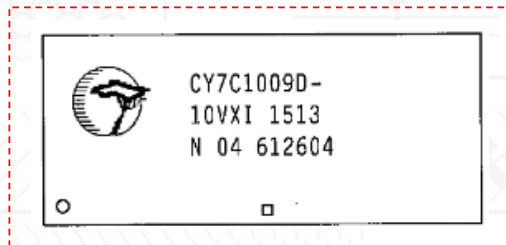Line 5: 4 characters

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN.

3rd line is the backend revision, fab site, and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C1009D-10VXI

Line 1: CY7C1009D
Line 2: -10VXI 1513
Line 3: N 04 612604

```
CY7C1009D-
10VXI 1513
N 04 612604
```

Note:
1. If Mkt PN is >12 characters, break the Mkt. PN after the 12th character then move the remaining characters to the second line.
2. If the dash ("-") falls in any character before the 12th character, break the Mkt. PN after the dash ("-") then move the remaining character to the second line.
3. Move the rrbff to the left followed by a blank (b) and the 6 digit mark lot number (nnnnnn)
4. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Packages :
• SOJ28 - 300/400 mils
• SOJ32 - 300/400 mils
• SOJ44 - 300/400 mils

Reference: 37-00001, Figure 9

CYPRESS
EMBEDDED IN TOMORROW

SSOP 20L/SSOP 28L

Using Gold (Au) Wire

```
dddddddddddddd
dddddddddbyyww
rbffblllbnnnnnn
```
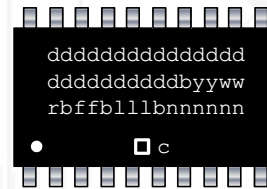
Lines 1 – 3: 15 characters per line

1st is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision, fab site, 'CYP' and lot code

Using Copper (Cu) Wire

```
dddddddddddddd
dddddddddbyyww
rbffblllbnnnnnn
```
□ c

Lines 1 – 3: 15 characters per line

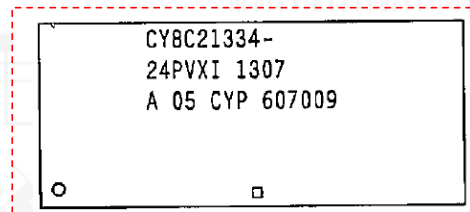1st is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision, fab site, 'CYP' and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8C21334-24PVXI

Line 1: CY8C21334-
Line 2: 24PVXI 1307
Line 3: A 05 CYP 607009

```
CY8C21334-
24PVXI 1307
A 05 CYP 607009
```

Packages :
- SOJ20 - 209 mils
- SOJ28 - 209 mils

Reference: 37-00001, Figure 34

CYPRESS
EMBEDDED IN TOMORROW

SSOP 48L/SSOP 56L

Using Gold (Au) Wire

```
ddddddddddddddddddd
rrbffbxxxbyywwbbbbb
lllbnnnnnnbbbbbbbbb
```

Lines 1 – 3: 19 characters per line

1st is the marketing part number

2nd line backend revision fab site, COO and date code.

3rd line is the 'CYP and the lot code

Using Copper (Cu) Wire

```
ddddddddddddddddddd
rrbffbxxxbyywwbbbbb
lllbnnnnnnbbbbbbbbb
```
☐ c

Lines 1 – 3: 19 characters per line

1st is the marketing part number

2nd line backend revision fab site, COO and date code.

3rd line is the 'CYP and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C68013A-56PVXC

Line 1: CY7C68013A-56PVXC
Line 2: B 04 CHI 1143
Line 3: CYP 652398

```
CY7C68013A-56PVXC
B  04 CHI 1143
CYP 652398
```

Reference: 37-00001, Figure 35
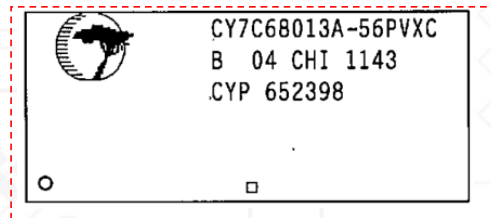
QSOP 20L/QSOP 28L

Using Gold (Au) Wire

```
dddddddddddddddd
 dddbyywwbbbbbb
 rrbffbbbbbbbbb
 lllbnnnnnbbbb
```

1st and 2nd line (16 characters) is the marketing part number. If total Mkt Part number characters exceed 16 characters, then first 16 characters will be mark on the unit (first and 2nd line will be used). This will be followed by the datecode.

3rd line (14 characters) is the backend revision and fab site.

4th line is the 'CYP' and lot code.

Using Copper (Cu) Wire

```
dddddddddddddddd
c dddbyywwbbbbbb
 rrbffbbbbbbbbb
 lllbnnnnnbbbb
```

1st and 2nd line (16 characters) is the marketing part number. If total Mkt Part number characters exceed 16 characters, then first 16 characters will be mark on the unit (first and 2nd line will be used). This will be followed by the datecode.
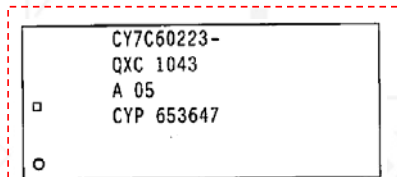
3rd line (14 characters) is the backend revision and fab site.

4th line is the 'CYP' and lot code.

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C60223-QXC

Line 1: CY7C60223-
Line 2: QXC 1043
Line 3: A 05
Line 4: CYP 653647

```
CY7C60223-
QXC 1043
A 05
CYP 653647
```

NOTES:

1. First 2-lines will be used for marketing part number
2. If dash (-) is used on the first 9-characters for marketing part numbers split the characters before the dash and wrap on 2nd line.
3. If dash is used on the 10th or 11th characters, ignore dash.

Packages :
- QSOP20 – 150mils
- QSIOP28 – 150mils

Reference: 37-00001, Figure 32

TSSOP 8L

Using Gold (Au) Wire

dddddd
dddddd
yywwbb

Lines 1 – 3: 6 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code
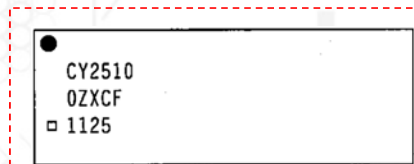
Using Copper (Cu) Wire

dddddd
dddddd
□ C   yywwbb

Lines 1 – 3: 6 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY25100ZXCF
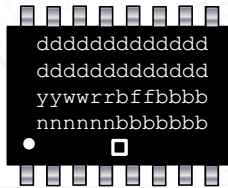
Line 1: CY2510
Line 2: 0ZXCF
Line 3: 1125

CY2510
0ZXCF
□ 1125

Note:

1. Requirement of "SIX DIGIT ASSEMBLY LOT NUMBER AND COUNTRY OF ORIGIN IS REQUIRED ON BACKSIDE MARKING"

Packages :
• TSSOP 8 – 173 mils

Reference: 37-00001, Figure 24

TSSOP 16L/TSSOP 14L

Using Gold (Au) Wire

```
dddddddddddd
dddddddddddd
yywwrrbffbbbb
nnnnnnbbbbbbb
```
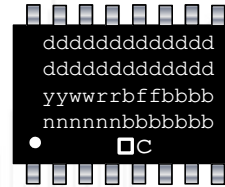
Lines 1 – 4: 13 characters per line

1st and 2nd line is the marketing part number. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on the unit (first and 2nd line will be used).

3rd line is the date code, backend revision, fab site

4th line is the lot code

Using Copper (Cu) Wire

```
dddddddddddd
dddddddddddd
yywwrrbffbbbb
nnnnnnbbbbbbb
    □C
```

Lines 1 – 4: 13 characters per line

1st and 2nd line is the marketing part number. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on the unit (first and 2nd line will be used).
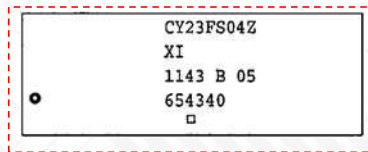
3rd line is the date code, backend revision, fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY23FS04ZXIT

Line 1: CY23FS04Z
Line 2: XI
Line 3: 1143 B 05
Line 4: 654340
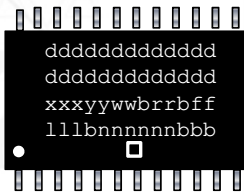
```
CY23FS04Z
XI
1143 B 05
654340
   □
```

NOTES:

1. First 2-lines will be used for marketing part number
2. If dash (-) is used on the first 9-characters for marketing part numbers split the characters before the dash and wrap on 2nd line.
3. If dash is used on the 10th or 11th characters, ignore dash.

Packages :
- TSSOP16 – 173 mils
- TSSOP15 – 173 mils

Reference: 37-00001, Figure 25

CYPRESS
EMBEDDED IN TOMORROW

TSSOP 20L/TSSOP 38L

Using Gold (Au) Wire

```
dddddddddddd
dddddddddddd
xxxyywwbrrbff
lllbnnnnnnbbb
        ▢
```

Lines 1 – 4: 13 characters per line

1st and 2nd line is the marketing part number. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on the unit (first and 2nd line will be used). If the total Mkt Part number characters is ≤13 characters, move the succeeding characters to line 2

3rd line is the COO, date code, backend revision, fab site

4th line is the 'CYP' and lot code

Using Copper (Cu) Wire

```
dddddddddddd
dddddddddddd
xxxyywwbrrbff
lllbnnnnnnbbb
        ▢ c
```

Lines 1 – 4: 13 characters per line

1st and 2nd line is the marketing part number. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on the unit (first and 2nd line will be used). If the total Mkt Part number characters is ≤13 characters, move the succeeding characters to line 2
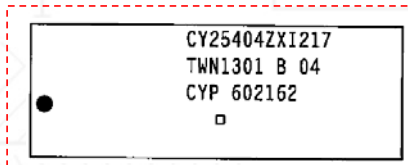
3rd line is the COO, date code, backend revision, fab site

4th line is the 'CYP' and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY25404ZXI217

Line 1: CY25404ZXI217
Line 2: TWN1301 B 04
Line 3: CYP 602162

```
CY25404ZXI217
TWN1301 B 04
CYP 602162
     ▢
```

NOTES:

1. First 2-lines will be used for marketing part number
2. If dash (-) is used on the first 9-characters for marketing part numbers split the characters before the dash and wrap on 2nd line.
3. If dash is used on the 10th or 11th characters, ignore dash.

Packages :
- TSSOP20 – 173 mils
- TSSOP38 – 173 mils

Reference: 37-00001, Figure 26

CYPRESS
EMBEDDED IN TOMORROW

TSSOP 20L/TSSOP 32L (REVERSE OPTION)

Using Gold (Au) Wire

ddddddddddddd
dddddddbyyww
rrbffbnnnnnnb

Lines 1 – 3: 13 characters per line

1st and 2nd line is the marketing part number. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on the unit (first and 2nd line will be used) followed by the datecode.

3rd line is the backend revision, fab site and the lot code

Using Copper (Cu) Wire

ddddddddddddd
ddddddddddddd
yywwrrbffbnnn
☐ c

Lines 1 – 3: 13 characters per line

1st and 2nd line is the marketing part number. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on the unit (first and 2nd line will be used) followed by the datecode.

3rd line is the backend revision, fab site and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : : CY62256VNLL-70ZRXI

Line 1: CY62256VNLL-
Line 2: 70ZRXI 1301
Line 3: ND 04 600295

CY62256VNLL-
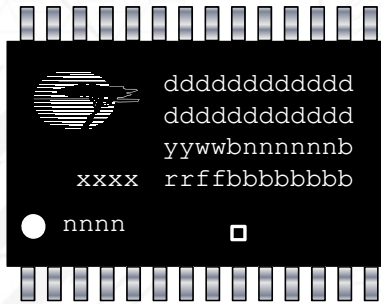70ZRXI 1301
ND 04 600295
☐

NOTES:

1. First 2-lines will be used for marketing part number
2. If dash (-) is used on the first 9-characters for marketing part numbers split the characters before the dash and wrap on 2nd line.
3. If dash is used on the 10th or 11th characters, ignore dash.

CYPRESS
EMBEDDED IN TOMORROW

Reference: 37-00001, Figure 28

TSOP II 32L to TSOP II 54L

Using Gold (Au) Wire

Lines 1 – 4: 12 characters per line
Line 5: 4 characters

```
      dddddddddddd
      dddddddddddd
      yywwbnnnnnnb
xxxx  rrffbbbbbbbb
 nnnn           ▫
```
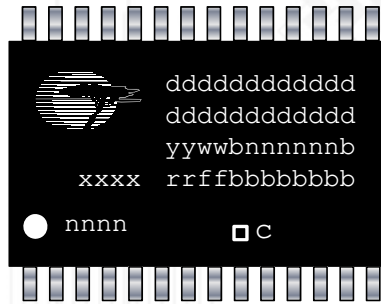
1st and 2nd line is the marketing part number. If Mkt. PN is >12 characters, break the Mkt. PN after the 12th character then move the remaining characters to the second line. If Mkt. PN is ≤12 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code and lot code

4th line is the backend revision and fab site.

xxxx – Country of Origin (COO) – for Packages with no engraved COO.

Using Copper (Cu) Wire

Lines 1 – 4: 12 characters per line
Line 5: 4 characters

```
      dddddddddddd
      dddddddddddd
      yywwbnnnnnnb
xxxx  rrffbbbbbbbb
 nnnn           ▫ C
```

1st and 2nd line is the marketing part number. If Mkt. PN is >12 characters, break the Mkt. PN after the 12th character then move the remaining characters to the second line. If Mkt. PN is ≤12 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code and lot code

4th line is the backend revision and fab site.

xxxx – Country of Origin (COO) – for Packages with no engraved COO.

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C1011DV33-10ZSXI

Line 1: CY7C1011DV33
Line 2: -10ZSXI
Line 3: 1301 600680
Line 4: PHI N 04

```
CY7C1011DV33
-10ZSXI
1301 600680
PHI  N 04
          ▫
```
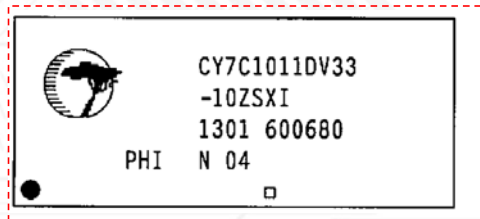
Note:

1. If the dash ("-") falls in any character before the 12th character, break the Mkt. PN after the dash ("-") then move the remaining character to the second line.
2. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Packages :
- TSOP II 32 – 435/400 mils
- TSOP II44 - 435/400 mils
- TSOP II 54 - 435/400 mils

Reference: 37-00001, Figure 6

CYPRESS EMBEDDED IN TOMORROW

TSOP 28L/TSOP 48L

Using Gold (Au) Wire

```
ddddddddddddd
ddddddddddddd
yywwrrbffbnnn
          □
```
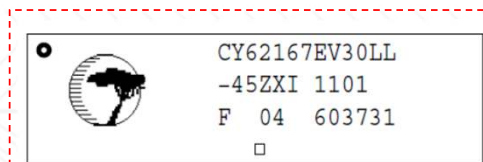
Lines 1 – 3: 13 characters per line

1st line is the marketing part number.

2nd line is the marketing part number if > 13 chars and date code

3rd line is backend revision, fab site and the lot code

Using Copper (Cu) Wire

```
ddddddddddddd
ddddddddddddd
yywwrrbffbnnn
       □ c
```
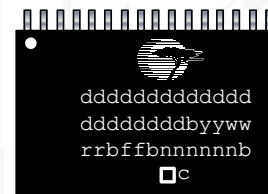
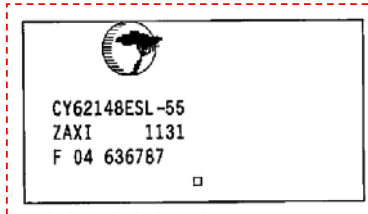Lines 1 – 3: 13 characters per line

1st line is the marketing part number.

2nd line is the marketing part number if > 13 chars and date code

3rd line is backend revision, fab site and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY62167EV30LL-45ZXI

Line 1: CY62167EV30LL
Line 2: -45ZXI 1101
Line 3: F 04   603731

```
CY62167EV30LL
-45ZXI 1101
F  04  603731
       □
```

NOTES:

1. First 2-lines will be used for marketing part number
2. If total Mkt Part Number characters exceed 13 characters, then first characters will be mark on line 1 followed by remaining of the part number on line 2.
3. Date code follows after the part number.

Packages :
- TSOP28 – 767 mils
- TSOP48 - 767 mils

Reference: 37-00001, Figure 27

CYPRESS
EMBEDDED IN TOMORROW

STSOP 32L

Using Gold (Au) Wire

Lines 1 – 3: 13 characters per line

1st line is the marketing part number

2nd line is the marketing part number if > 13 chars and datecode

3rd line is the backend revision, fab site and the lot code

```
dddddddddddd
dddddddddbyyww
rrbffbnnnnnnb
   ▢
```

Using Copper (Cu) Wire

Lines 1 – 3: 13 characters per line

1st line is the marketing part number

2nd line is the marketing part number if > 13 chars and datecode

3rd line is the backend revision, fab site and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

```
dddddddddddd
dddddddddbyyww
rrbffbnnnnnnb
   ▢c
```

Example Marking Format: : CY62148ESL-55ZAXI

Line 1: CY62148ESL-55
Line 2: ZAXI 1131
Line 3: F 04 636787

```
CY62148ESL-55
ZAXI      1131
F 04 636787
         ▫
```

NOTES:

1. First 2-lines will be used for marketing part number
2. If total Mkt Part number characters exceed 13 characters, then first 13 characters will be mark on line 1 followed by remaining characters of the part number on line 2.
3. Date code follows after the part number

Reference: 37-00001, Figure 37

CYPRESS
EMBEDDED IN TOMORROW™

TQFP 32L to TQFP 144L

Using Gold (Au) Wire
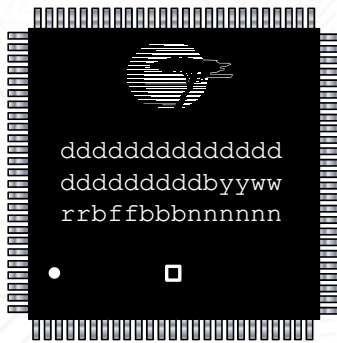
```
dddddddddddddd
dddddddddbyyww
rrbffbbbnnnnnn
```
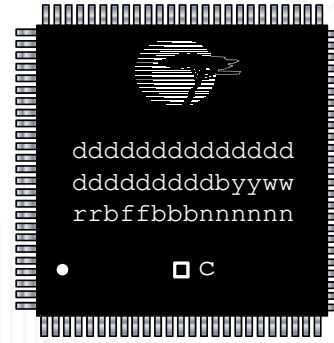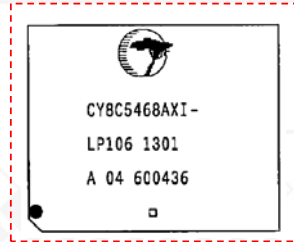
Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN.

3rd line is backend revision, fab site and lot code

Using Copper (Cu) Wire

```
dddddddddddddd
dddddddddbyyww
rrbffbbbnnnnnn
```
□ C

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN.

3rd line backend revision, fab site And lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8C5468AXI-LP106

Line 1: CY8C5468AXI-
Line 2: LP106 1301
Line 3: A 04 600436

```
CY8C5468AXI-
LP106 1301
A 04 600436
```
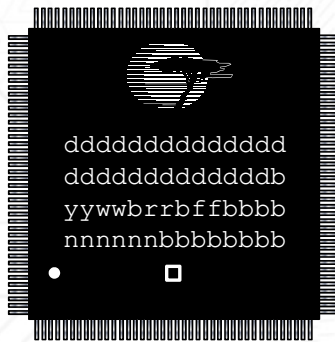
Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.
2. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Reference: 37-00001, Figure 23

CYPRESS
EMBEDDED IN TOMORROW

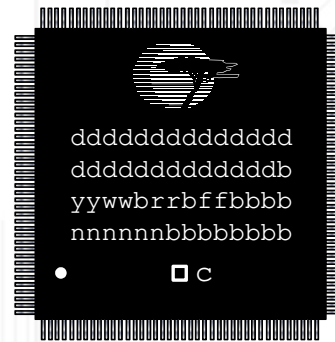# TQFP 160L to TQFP 388L

Using Gold (Au) Wire
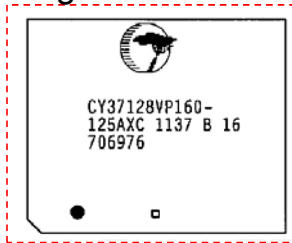
Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN is ≤14 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code, backend revision and fab site

4th line is the lot code

```
dddddddddddddd
ddddddddddddddb
yywwbrrbffbbbb
nnnnnnbbbbbbbb
```

Using Copper (Cu) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN is ≤14 characters, move line 3 to line 2 then succeeding lines follows.

3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

```
dddddddddddddd
ddddddddddddddb
yywwbrrbffbbbb
nnnnnnbbbbbbbb
```

Example Marking Format: : CY37128VP160-125AXC

```
CY37128VP160-
125AXC 1137 B 16
706976
```

Line 1: CY37128VP1601-
Line 2: 125AXC 1137 B 6
Line 3: 706976

Example Marking Format: : CY37256P160-83AXC

```
CY37256P160-
83AXC TWN1237
B 16 630941
```
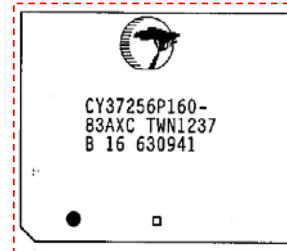
Example: (ASE Taiwan)
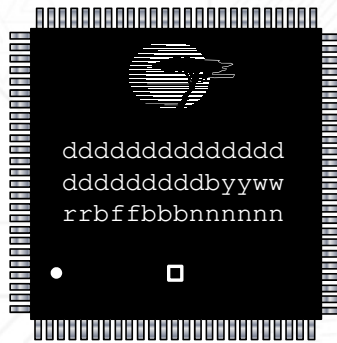Line 1: CY37256P160-
Line 2: 83AXC TWN 1237
Line 3: B 16 630941
Note: For ASET Assembled: COO is added after the part number

Note:
1. If Mkt PN is >14 characters, break the Mkt. PN after the 14th character then move the remaining characters to the second line.
2. If the dash ("-") falls in any character before the 14th character, break the Mkt. PN after the dash ("-") then move the remaining character to the second line.
3. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN separated with a blank then move the rrbff to the left followed by a blank (b) and the 6 digit mark lot number (nnnnnn)

Reference: 37-00001, Figure 22

TQFP 32L to TQFP 144L (EXPOSED PAD)

Using Gold (Au) Wire
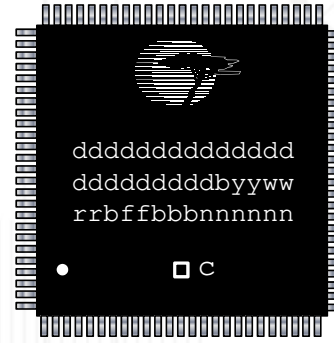


```
dddddddddddddd
ddddddddbyyww
rrbffbbbnnnnnn
```

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN.

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire


```
dddddddddddddd
ddddddddbyyww
rrbffbbbnnnnnn
   □ C
```

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN.

3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : : CY525G101DX-AEXC

Line 1: CY525G101DX-
Line 2: AEXC 1307 B 04
Line 3: 605963


```
CYS25G0101DX-
AEXC 1307 B 04
605963
```
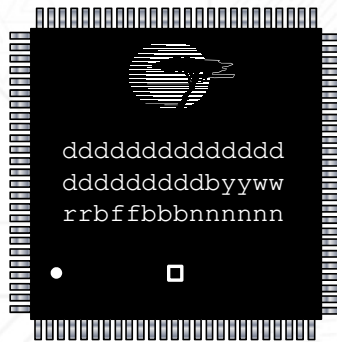
Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.
2. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Reference: 37-00001, Figure 23

PQFP 32L to PQFP 144L
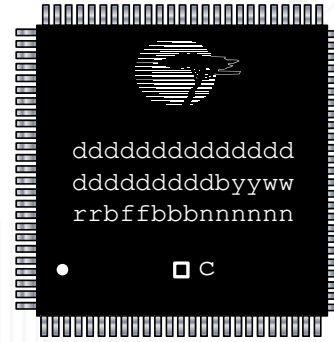
Using Gold (Au) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN

3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C136A-55NXI

Line 2: TWN1231 G 02
Line 3: 628291

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.
2. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Reference: 37-00001, Figure 23

PQFP 160L to PQFP 388L

Using Gold (Au) Wire
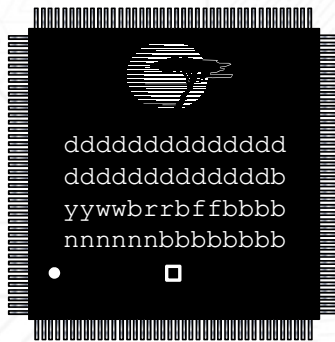
```
dddddddddddddd
ddddddddddddddb
yywwbrrbffbbbb
nnnnnnbbbbbbbb
```

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

```
dddddddddddddd
ddddddddddddddb
yywwbrrbffbbbb
nnnnnnbbbbbbbb
```
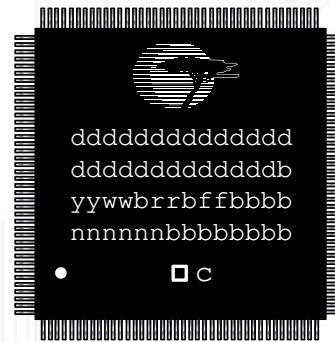
C

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number
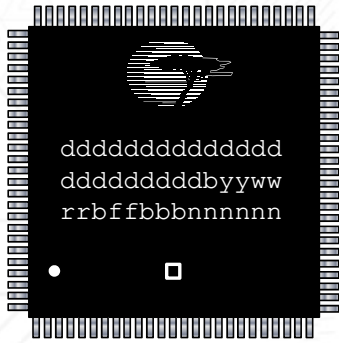
3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

No Example Available

Reference: 37-00001, Figure 22

CQFP 52L to CQFP 144L

Using Gold (Au) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN

3rd line is the date code, backend revision and fab site

4th line is the lot code

dddddddddddddd
ddddddddddbyyww
rrbffbbbnnnnnn
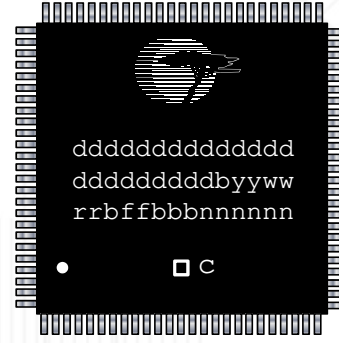
Using Copper (Cu) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN
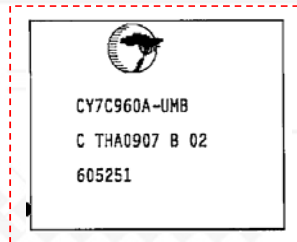
3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

dddddddddddddd
ddddddddddbyyww
rrbffbbbnnnnnn
☐ C

Example Marking Format: : : CY7C960A-UMB

Line 2: C THA0907 B 02
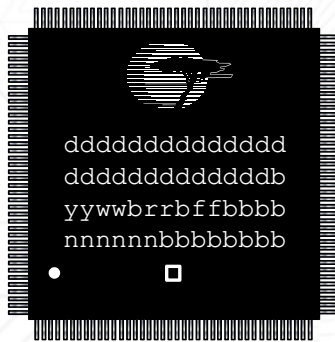Line 3: 605251

CY7C960A-UMB
C THA0907 B 02
605251

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.
2. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Reference: 37-00001, Figure 23

CQFP 160L to CQFP 388L

Using Gold (Au) Wire

dddddddddddddd
ddddddddddddddb
yywwbrrbffbbbb
nnnnnnbbbbbbbb

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

dddddddddddddd
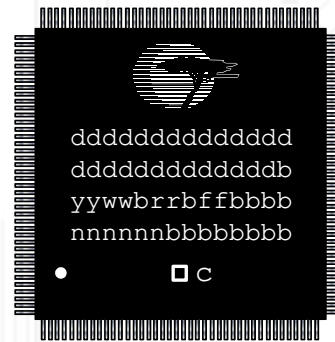ddddddddddddddb
yywwbrrbffbbbb
nnnnnnbbbbbbbb

□ C

Lines 1 – 4: 14 characters per line
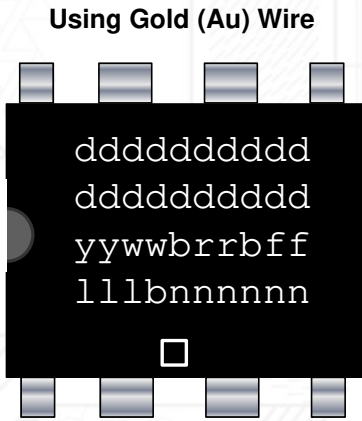
1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.
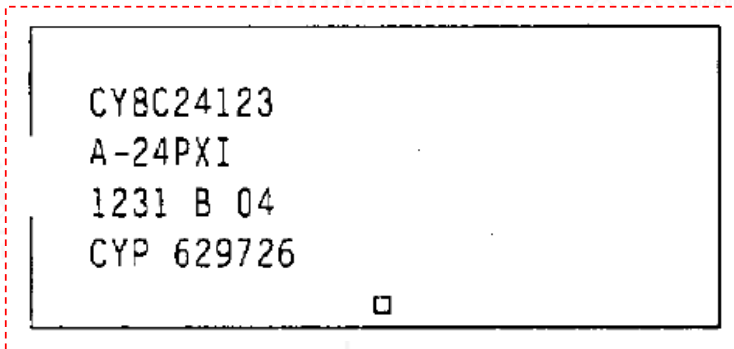
No Example Available

Reference: 37-00001, Figure 22

CYPRESS
EMBEDDED IN TOMORROW

PDIP 8L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
yywwbrrbff
lllbnnnnnn
    □
```

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the CYP and the lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddddddd
yywwbrrbff
lllbnnnnnn
    □c
```

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the CYP and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8C24123A-24PXI

Line 1: CY8C24123
Line 2: A-24PXI
Line 3: 1231 B 04
Line 4: CYP 629726

```
CY8C24123
A-24PXI
1231 B 04
CYP 629726
         □
```

Packages :
• PDIP8 – 300 mils

Reference: 37-00001, Figure 1

CYPRESS
EMBEDDED IN TOMORROW

PDIP 16L to PDIP 64L

Using Gold (Au) Wire

ddddddddddddddd
ddddddddddddddd
yywwbrrffbbbbbbb
nnnnnbbbbbbbbbb

□

16 characters per line

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is "CYP and the lot code

Using Copper (Cu) Wire

ddddddddddddddd
ddddddddddddddd
yywwbrrffbbbbbbb
nnnnnbbbbbbbbbb

□ C

16 characters per line

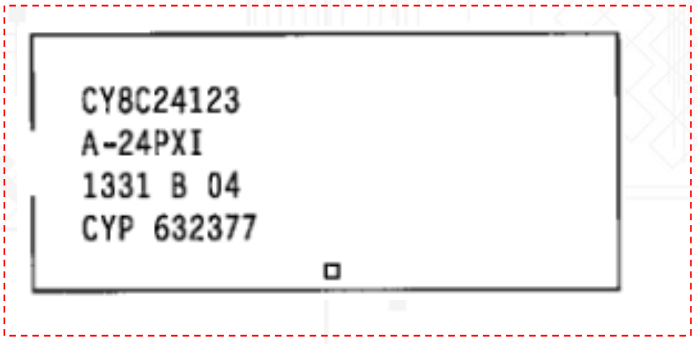1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is "CYP" and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8C24123A-24PXI

Line 1: CY8C24123
Line 2: A-24PXI
Line 3: 1331 B 04
Line 4: CYP 632377

```
CY8C24123
A-24PXI
1331 B 04
CYP 632377

          □
```

Reference: 37-00001, Figure 3

CERDIP 8L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
yywwbrrbff
lllbnnnnnn
    □
```

10 characters per line

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the CYP and the lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddddddd
yywwbrrbff
lllbnnnnnn
   □c
```

10 characters per line

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the CYP and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.
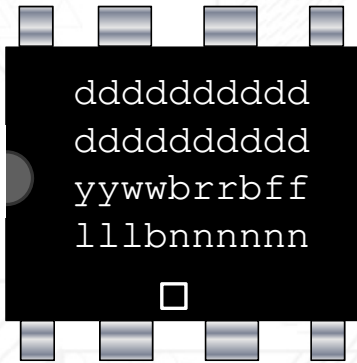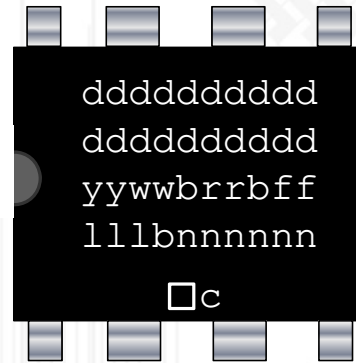
No Example Available

Packages :
- CERDIP – 300 mils

Reference: 37-00001, Figure 1

CYPRESS
EMBEDDED IN TOMORROW

CERDIP 16L to CERDIP 64L

Using Gold (Au) Wire

dddddddddddddddd
dddddddddddddddd
yywwbrrffbbbbbbb
nnnnnBBBBBBBBBB

□

16 characters per line

1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire

dddddddddddddddd
dddddddddddddddd
yywwbrrffbbbbbbb
nnnnnBBBBBBBBBB

□ c

16 characters per line
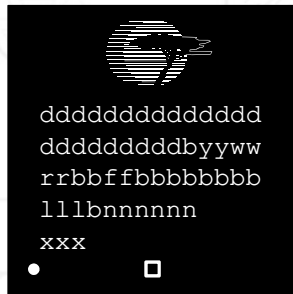
1st and 2nd line is the marketing part number.

3rd line is the date code, backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

No Example Available

Reference: 37-00001, Figure 3

CYPRESS
EMBEDDED IN TOMORROW™

BGA

Using Gold (Au) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww (date code) to the second line after the Mkt. PN.

3rd line is backend revision and fab site

4th line is the CYP and the lot code

5th line is the COO

```
dddddddddddddd
dddddddddbyyww
rrbbffbbbbbbbb
lllbnnnnnn
xxx
  ●         □
```

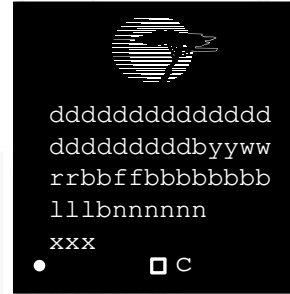### Using Copper (Cu) Wire

Lines 1 – 4: 14 characters per line

1st and 2nd line is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww (date code) to the second line after the Mkt. PN.

3rd line is backend revision and fab site

4th line is the CYP and the lot code
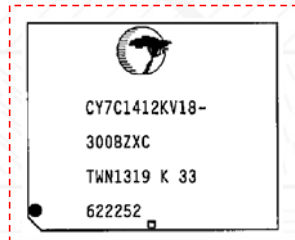
5th line is the COO

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

```
dddddddddddddd
dddddddddbyyww
rrbbffbbbbbbbb
lllbnnnnnn
xxx
  ●        □ C
```

Example Marking Format: : : CY7C1412KV18-300BZXC

Package: BGA165

Assembly Location: ASE Taiwan
Line 1: CY7C1412KV18-
Line 2: 300BZXC
Line 3: TWN1319 K 33
Line 4: 622252

```
    🦅
CY7C1412KV18-
300BZXC
TWN1319 K 33
622252      □
●
```

Assembly Location: CML Philippines
Line 1: CY7C1412KV18-
Line 2: 300BZXC 1219
Line 3: K 33 615123

```
    🦅
CY7C1412KV18-
300BZXC 1219
K 33 615123
●           □
```

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.
2. For Non-MIA devices, mark last four digits of the assembly lot number (nnnn) beside the pin 1 indicator.

Packages :
- BGA100, BGA144, BGA165, BGA172, BGA196, BGA119, BGA121, BGA209, BGA256, BGA272, BGA 484 (906mils)

Reference: 37-00001, Figure 23

BGA 292L/BGA 388L/BGA 484L

Using Gold (Au) Wire
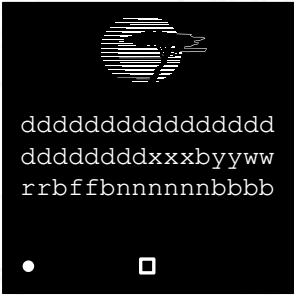
Lines 1 – 4: 16 characters per line

1st the marketing part number

2nd line is the marketing part number followed by the COO and datecode.

3rd line is the backend revision, fab site and lot code

Using Copper (Cu) Wire

Lines 1 – 4: 16 characters per line

1st the marketing part number

2nd line is the marketing part number followed by the COO and datecode

3rd line is the backend revision, fab site and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CYD36S36V18-200BGXC

Part Number:
Line 1: CYD36S36V18-
Line 2: 200BGXC TWN 1213
Line 3: A 04 610305

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

Packages :
• BGA292, BGA388, BGA484 (1063 mils)

Reference: 37-00001, Figure 43

L2BGA 256L

Using Gold (Au) Wire

ddddddddddddddddd
dddddddddxxxbyyww
rrbffbnnnnnnbbbb

Lines 1 – 3:16 characters per line

1st the marketing part number

2nd line is the marketing part number followed by the COO and datecode

3rd line is the backend revision, fab site and lot code

Using Copper (Cu) Wire

ddddddddddddddddd
dddddddddxxxbyyww
rrbffbnnnnnnbbbb

☐ C

Lines 1 – 3: 16 characters per line

1st the marketing part number

2nd line is the marketing part number followed by the COO and datecode

3rd line is the backend revision, fab site and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CYV15G0203TB-BGXC

Line 1: CYV15G0203TB-
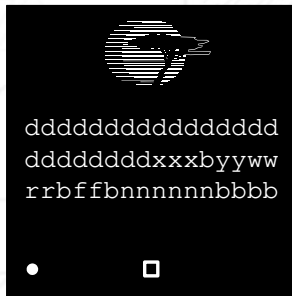Line 2: BGXC TWN 1301
Line 3: C 04 700273

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

Reference: 37-00001, Figure 43

FCBGA 361L (WITH HEAT SPREADER)

Using Gold (Au) Wire

dddddddddddddddd
dddddddxxxbyyww
rrbffbnnnnnnbbbb

Lines 1 – 3:16 characters per line

1st the marketing part number

2nd line is the marketing part number followed by the COO and datecode

3rd line is the backend revision, fab site and lot code

Using Copper (Cu) Wire

dddddddddddddddd
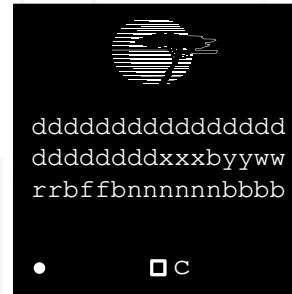dddddddxxxbyyww
rrbffbnnnnnnbbbb

Lines 1 – 3: 16 characters per line

1st the marketing part number

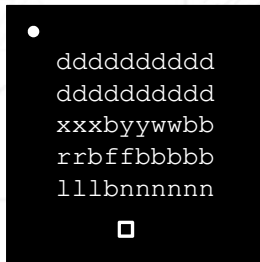2nd line is the marketing part number followed by the COO and datecode

3rd line is the backend revision, fab site and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

No Example Available

Reference: 37-00001, Figure 43

CYPRESS
EMBEDDED IN TOMORROW

BGA 36L to BGA 48L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
xxxbyywwbb
rrbffbbbbb
lllbnnnnnn
      ▫
```

Lines 1 – 5: 10 characters per line

1st and 2nd line is the marketing part number

3rd line is the COO, and date code

4th line is the backend revision and fab site

5th line is 'CYP' and lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddddddd
xxxbyywwbb
rrbffbbbbb
lllbnnnnnn
   ▫ c
```

Lines 1 – 5: 10 characters per line

1st and 2nd line is the marketing part number
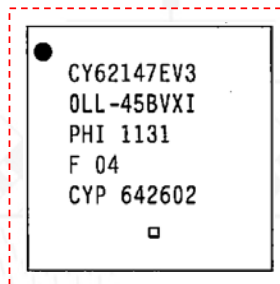
3rd line is the COO, and date code

4th line is the backend revision and fab site

5th line is 'CYP' and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY62147EV30LL-45BVXI

Line 2: 0LL-45BVXI
Line 3: PHI 1131
Line 4: F 04
Line 5: CYP 642602

```
CY62147EV3
0LL-45BVXI
PHI 1131
F 04
CYP 642602
      ▫
```

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

Reference: 37-00001, Figure 47

CYPRESS
EMBEDDED IN TOMORROW

BGA 36L/BGA 48L/BGA 60L/BGA 121L

Using Gold (Au) Wire

Lines 1 – 4: 13 characters per line

```
•
dddddddddddd
dddddddbyyww
rrbffbxxx
lllbnnnnnn

       □
```

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision, fab site and COO

4th line is 'CYP' and lot code

Using Copper (Cu) Wire

Lines 1 – 4: 13 characters per line

```
•
dddddddddddd
dddddddbyyww
rrbffbxxx
lllbnnnnnn

     □ c
```

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

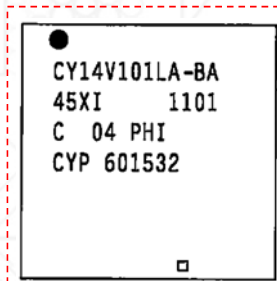3rd line is the backend revision, fab site and COO

4th line is 'CYP' and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY14V101LA-BA45XI

Line 1: CY14V101LA-BA
Line 2: 45XI 1101
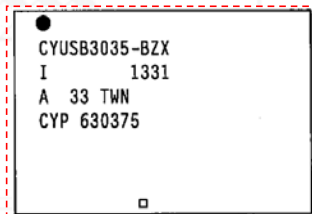Line 3: C 04 PHI
Line 4: CYP 601532

```
•
CY14V101LA-BA
45XI    1101
C  04 PHI
CYP 601532

          □
```

Example Marking Format: : CYUSB3035-BZXI

Part Number: CYUSB3035-BZXI
Package: BGA121

Assembly Location: ASE Taiwan
Line 1: CYUSB3035-BZX
Line 2: I 1331
Line 3: A 33 TWN
Line 4: CYP 630375

```
•
CYUSB3035-BZX
I        1331
A  33 TWN
CYP 630375

        □
```

Assembly Location: CML Philippines
Line 1: CYUSB3035-BZX
Line 2: I 1231
Line 3: A 33 PHI
Line 4: CYP 629999

```
•
CYUSB3035-BZX
I        1231
A  33 PHI
CYP 629999

        □
```

Reference: 37-00001, Figure 36
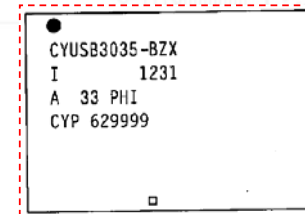
VFBGA 56L/VFBGA 84L/VFBGA 100L

Using Gold (Au) Wire
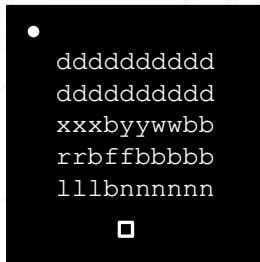
```
•
    dddddddddd
    dddddddddd
    xxxbyywwbb
    rrbffbbbbb
    lllbnnnnnn
        ▫
```

Lines 1 – 5: 10 characters per line

1st and 2nd line is the marketing part number

3rd line is the COO, and date code

4th line is the backend revision and fab site

5th line is 'CYP' and lot code

Using Copper (Cu) Wire

```
•
    dddddddddd
    dddddddddd
    xxxbyywwbb
    rrbffbbbbb
    lllbnnnnnn
       ▫ c
```

Lines 1 – 5: 10 characters per line

1st and 2nd line is the marketing part number
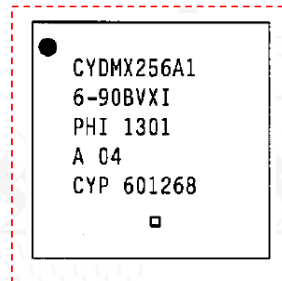
3rd line is the COO, and date code

4th line is the backend revision and fab site

5th line is 'CYP' and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CYDMX256A16-90BVXI

Line 1: CYDMX256A1
Line 2: 6-90BVXI
Line 3: PHI 1301
Line 4: A 04
Line 5: 601268

```
•
 CYDMX256A1
 6-90BVXI
 PHI 1301
 A 04
 CYP 601268
       ▫
```

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

Reference: 37-00001, Figure 47

VFBGA 60L/VFBGA 70L

Using Gold (Au) Wire
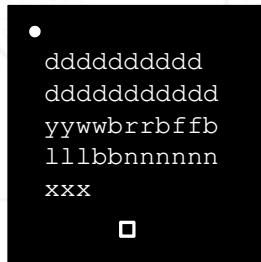
Line 1: 10 characters
Lines 2 – 4: 11 characters per line
Line 5: 3 characters

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is CYP' and lot code

5th line is the COO

```
dddddddddd
ddddddddddd
yywwbrrbffb
lllbbnnnnnn
xxx
```

Using Copper (CuPd) Wire

Line 1: 10 characters
Lines 2 – 4: 11 characters per line
Line 5: 3 characters

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is CYP' and lot code

5th line is the COO

```
dddddddddd
ddddddddddd
yywwbrrbffb
lllbbnnnnnn
xxx
      c
```

Example Marking Format: : CY8CTMA463-60BUI

Line 1: CY8CTMA463
Line 2: -60BUI
Line 3: 1249 B 04
Line 4: CYP 639287
Line 5: TWN
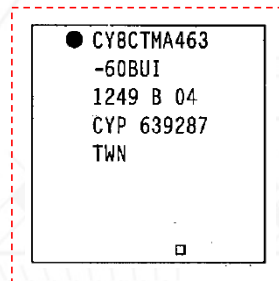
```
● CY8CTMA463
  -60BUI
  1249 B 04
  CYP 639287
  TWN
```
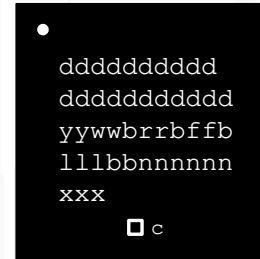
Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

    Packages :
    • VFBGA 60/VFBGA70 – 216 mils

Reference: 37-00001, Figure 56

UFBGA 48L

Using Copper (Cu) Wire

ddddddd
ddddddd
ddddddd
yywwbnn
nnnn
□C

1st line (7characters) is the marketing part number

2nd line (7characters) is the marketing part number.

3rd line (7characters) is the marketing part number.

4th line (7 characters) is the datecode and lot code

5th line (4 characters) is the lotcode

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

- -

Example Marking Format: : CYTMA525-48BUI25ZZ

Line 1: CYTMA52
Line 2: 5-48BUI
Line 3: 25ZZ
Line 4: 1419 61
Line 5: 7493
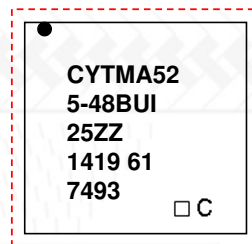
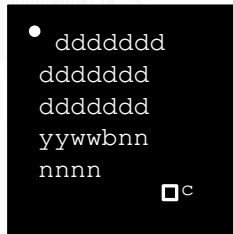**CYTMA52
5-48BUI
25ZZ
1419 61
7493**
□ C

Note:
1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second and third line.

Reference: 37-00001, Figure 125

UFBGA 60L/UFBGA 70L

Using Gold (Au) Wire

```
• dddddddddd
  ddddddddddd
  yywwbrrffbb
  lllbnnnnnnb
  xxx
        ▫
```

1st line (10 characters) is the marketing part number

2nd line (11 characters) is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN separated with a blank then move the rrbff to the next line.

3rd line (11 characters) is the datecode, backend revision and fab site

4th (11 characters) line is 'CYP' and lot code

5th line (3 characters) is the COO

Using Copper (Cu) Wire

```
• dddddddddd
  ddddddddddd
  yywwbrrffbb
  lllbnnnnnnb
  xxx
     ▫ c
```

1st line (10 characters) is the marketing part number

2nd line (11 characters) is the marketing part number. If Mkt. PN on line 2 contains ≤5 char, move yyww to the second line after the Mkt. PN separated with a blank then move the rrbff to the next line.

3rd line (11 characters) is the datecode, backend revision and fab site

4th (11 characters) line is 'CYP' and lot code

5th line (3 characters) is the COO

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8CTMA463-60BUI

Line 2: -60BUI
Line 3: 1249 B 04
Line 4: CYP 639287
Line 5: TWN

```
● CY8CTMA463
  -60BUI
  1249 B 04
  CYP 639287
  TWN
              ▫
```
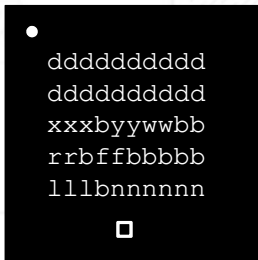
Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

Packages :
• UFBGA 60/UFBGA70 – 216 mils

Reference: 37-00001, Figure 56

CYPRESS
EMBEDDED IN TOMORROW

UFBGA 84L

Using Gold (Au) Wire

```
 ●
  dddddddddd
  dddddddddd
  xxxbyywwbb
  rrbffbbbbb
  lllbnnnnnn
     ▫
```

Lines 1 – 4: 10 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number

3rd line is the COO and the date code.

4th line is the backend revision, fab site

5th line is 'CYP' and lot code

Using Copper (Cu) Wire

```
 ●
  dddddddddd
  dddddddddd
  xxxbyywwbb
  rrbffbbbbb
  lllbnnnnnn
     ▫ c
```

Lines 1 – 4: 10 characters per line
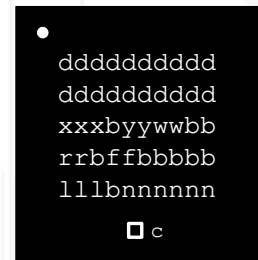
1st line is the marketing part number

2nd line is the remaining marketing part number

3rd line is the COO and the date code.

4th line is the backend revision, fab site

5th line is 'CYP' and lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format : CY8CTMA768BUI-23

Line 1: CY8CTMA768
Line 2: BUI-23
Line 3: TWN 1249
Line 4: B 04
Line 5: CYP 640128

```
 ●
  CY8CTMA768
  BUI-23
  TWN 1249
  B 04
  CYP 640128

     ▫
```

Packages :
• UFBGA 84L – 236 mils

Reference: 37-00001, Figure 47

CYPRESS
EMBEDDED IN TOMORROW

PLCC 24L TO PLCC 32L

Using Gold (Au) Wire

```
dddddddddd
dddddbyyww
brrbffbbbbb
lllbnnnnnnb
   □
```

Lines 1 – 4: 11 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision and fab site

4th line is 'CYP' and the lot code

Using Copper (Cu) Wire

```
dddddddddd
dddddbyyww
brrbffbbbbb
lllbnnnnnnb
   □ C
```

Lines 1 – 4: 11 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode
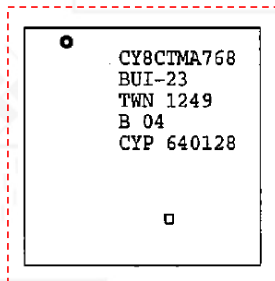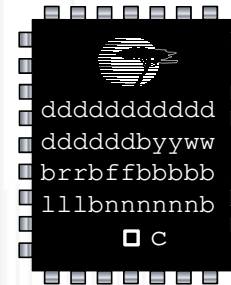
3rd line is the backend revision and fab site

4th line is 'CYP' and the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7B991V-5JXC-23

Line 1: CY7B991V-
Line 2: 5JXC 11243
Line 3: V 02
Line 4: CYP 637742

```
CY7B991V-
5JXC 1243
V 02
CYP 637742
   □
```

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.

Reference: 37-00001, Figure 15

CYPRESS
EMBEDDED IN TOMORROW

PLCC 44L TO PLCC 84L

Using Gold (Au) Wire
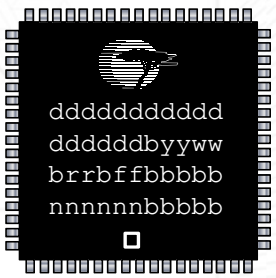

```
dddddddddd
ddddddbyyww
brrbffbbbbb
nnnnnnbbbbb
```

Lines 1 – 4: 11 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

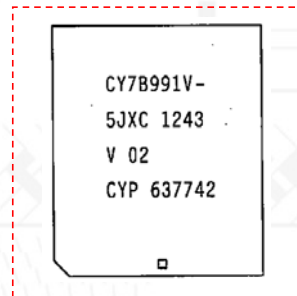3rd line is the backend revision and fab site

4th line is the lot code

Using Copper (Cu) Wire


```
dddddddddd
ddddddbyyww
brrbffbbbbb
nnnnnnbbbbb
   □ C
```

Lines 1 – 4: 11 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision and fab site

4th line is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY7C144E-15JXI

Line 1: CY7C144E-
Line 2: 15JXI 1243
Line 3: NF 04
Line 4: 637415
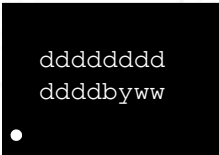

```
CY7C144E-
15JXI 1243
NF 04
637415
      □
```

Note:

1. If length of Mkt Part Number exceeds the maximum number of characters on Line 1, split the Mkt Part Number after the dash and wrapping the rest on the second line.
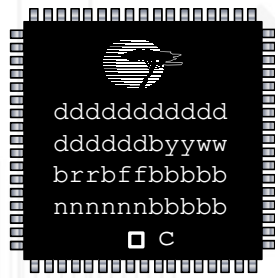
Reference: 37-00001, Figure 17
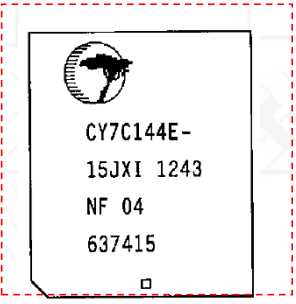
LCC 04L TO LCC 06L

Using Gold (Au) Wire
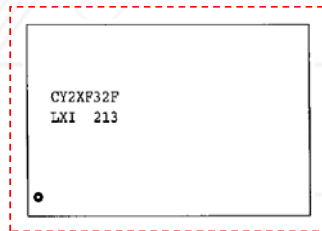
Lines 1 – 2: 8 characters per line

1st and 2nd line is the marketing part number

2nd line is the remaining marketing part number and last 3 digits of datecode (yww)

ddddddd
ddddbyww

Example Marking Format : : CY2XF32FLXIT I

Line 1: CY2XF32F
Line 2: LXI 213

CY2XF32F
LXI 213

Reference: 37-00001, Figure 64

QFN 8L

Using Gold (Au) Wire

```
ddd
nnn
```

1st line (3 characters) is the 7th, 8th and 9th characters of marketing part number

2nd line (3 characters) is the last three digits of assembly lot number

Example Marking Format: CY22U1SCALGXC-00

Line 1: SCA
Line 2: nnn

```
SCA
nnn
```

Packages :
• QFN8 = 3x3 mm

Reference: 37-00001, Figure 116

CYPRESS
EMBEDDED IN TOMORROW™
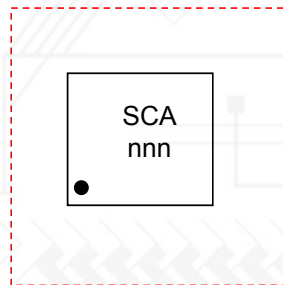
QFN 16L

Using Gold (Au) Wire

dddd
yyww
nnnn

1st line (4 characters) is the 4 digit marketing part number before the dash (-)

2nd line (4 characters) is the datecode

3rd line (4 characters) is the last 4 digits of the lot number

Using Copper (Cu) Wire

dddd
yyww
nnnn
c

1st line (4 characters) is the 4 digit marketing part number before the dash (-)

2nd line (4 characters) is the datecode

3rd line (4 characters) is the last 4 digits of the lot number

The 'C' denotes the use of copper wire.

Example Marking Format: CY8C20045-24LKXI

Line 1: 0045
Line 2: 1225
Line 3: 3650

0045
1225
3650

Packages :
• QFN16L = 3x3 mm

Reference: 37-00001, Figure 97
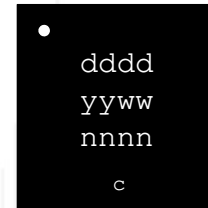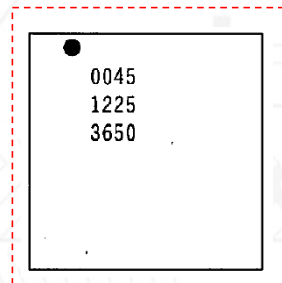
QFN 16L/24L/28

Using Gold (Au) Wire

```
 •  dddd
    dddddd
    yywwbn
    nnnn
     ☐
```

1st line (4 characters) is the marketing part number

2nd line (6 characters) is the marketing part number

3rd line (6 characters) is the date code and the first digit of the lot code

4th line (4 characters) is the last 4 digit if lot code

Using Copper (Cu) Wire

```
 •  dddd
    dddddd
    yywwbn
    nnnn
     ☐ c
```

1st line (4 characters) is the marketing part number

2nd line (6 characters) is the marketing part number

3rd line (6 characters) is the date code and the first digit of the lot code

4th line (4 characters) is the last 4 digit if lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: CY8C20346-24LQXI

Line 1: CY8C
Line 2: 20346-
Line 3: 1213 6
Line 4: 3312

```
  ●
    CY8C
    20346-
    1213 6
    3312 ☐
```

Note:

1. First two lines will be mark with Marketing Part numbers only. If Marketing Part number exceeds 10 characters, Mark only the first 10 characters of the marketing part number. Ignore splitting and wrap first 10 characters over the first two lines.

Reference: 37-00001, Figure 55

CYPRESS
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QFN/DFN 8L/16L/20L

Using Gold (Au) Wire

```
•  ddddddd
   dddddddd
   yywwbxxx
   nnnnnn
      □
```

1st line (7 characters) is the marketing part number

2nd line (8 characters) is the marketing part number

3rd line (8 characters) is the date code and the first digit of the lot code

4th line (6 characters) is the lot code

Using Copper (Cu) Wire

```
•  ddddddd
   dddddddd
   yywwbxxx
   nnnnnn
      □ c
```

1st line (7 characters) is the marketing part number

2nd line (8 characters) is the marketing part number
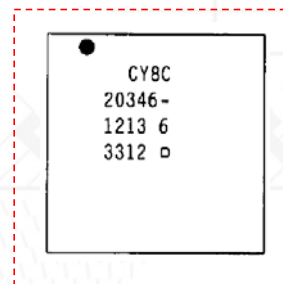
3rd line (8 characters) is the date code and the first digit of the lot code

4th line (6 characters) is the lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: CY14B101Q2-LHXI

Line 1: CY14B10
Line 2: 1Q2-LHXI
Line 3: 1207 TWN
Line 4: 605256

```
•
  CY14B10
  1Q2-LHXI
  1207 TWN
  605256 □
```

Reference: 37-00001, Figure 48

CYPRESS
EMBEDDED IN TOMORROW

QFN 28L/32L/36L/44L

Using Gold (Au) Wire

```
•  ddddddd
   dddddddd
   yywwbxxx
   nnnnnn
   AAA
   □
```

1st line (7 characters) is the marketing part number

2nd line (8 characters) is the marketing part number

3rd line (8 characters) is the date code and the first digit of the lot code

4th line (6 characters) is the lot code

5th line is the Strip ID for CML Autoline assembled only

Using Copper (Cu) Wire

```
•  ddddddd
   dddddddd
   yywwbxxx
   nnnnnn
   AAA
   □ c
```

1st line (7 characters) is the marketing part number

2nd line (8 characters) is the marketing part number

3rd line (8 characters) is the date code and the first digit of the lot code

4th line (6 characters) is the lot code

5th line is the Strip ID for CML Autoline assembled only

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: CY8CTST242-LQI-01

Line 1: CY8CTST
Line 2: 242-LQI-
Line 3: 1301 PHI
Line 4: 600815
Line 5: AAA

```
CY8CTST
242-LQI-
1301 PHI
600815 □C
AAA
```

NOTES:
1. First 2-lines will be used for marketing part number
2. If dash (-) is used on the first 8-characters for marketing part numbers split the characters before the dash and wrap on 2nd line.
3. If dash is used on the 9th or 10th characters, ignore dash.
4. If total Mkt Part number characters exceed 15 characters, then first 15 characters will be mark on the unit (first and 2nd line will be used)

Reference: 37-00001, Figure 52

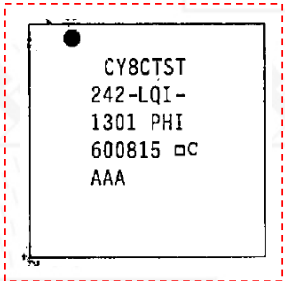# QFN 40L/48/56L

Using Gold (Au) Wire

```
● dddddddd
  ddddddddd
  yywwbrbff
  lllnnnnnn
  xxx
  AAA   □
```

1st line (8 characters) is the marketing part number

2nd line (9 characters) is the marketing part number

3rd line (9 characters) is the date code backend revision and fab site

4th line (9 characters) is 'CYP' and lot code

5th line is the COO

6th line (3 characters) is the Strip ID for CML Autoline assembled only

Using Copper (Cu) Wire

```
● dddddddd
  ddddddddd
  yywwbrbff
  lllnnnnnn
  xxx
  AAA   □ c
```

1st line (8 characters) is the marketing part number

2nd line (9 characters) is the marketing part number

3rd line (9 characters) is the date code, backend revision and fab site

4th line (9 characters) is 'CYP' and lot code

5th line is the COO

6th line (3 characters) is the Strip ID for CML Autoline assembled only

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: CY8CTMA400-48LQI

Line 1: CY8CTMA4
Line 2: 00-48LQI
Line 3: 1307 B 04
Line 4: CYP606450
Line 5: PHI
Line 6: AAA
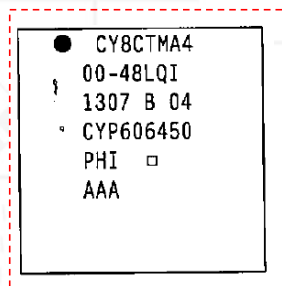
```
● CY8CTMA4
  00-48LQI
  1307 B 04
● CYP606450
  PHI   □
  AAA
```

NOTES:
1. First 2-lines will be used for marketing part number
2. If dash (-) is used on the first 8-characters for marketing part numbers split the characters before the dash and wrap on 2nd line.
3. If dash is used on the 9th or 10th characters, ignore dash.
4. If total Mkt Part number characters exceed 17 characters, then first 17 characters will be mark on the unit (first and 2nd line will be used)

Packages :
• QFN40/48/56 – 6X6 mm

Reference: 37-00001, Figure 52

QFN 48L/56L

Using Gold (Au) Wire

```
●
dddddddddddd
dddddddbyyww
rrbffbxxx
lllbnnnnnn
AAA
   □
```

Lines 1 – 4: 13 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision, fab site and COO

4th line is 'CYP' and lot code

5th line (3 characters) is the strip ID applicable only for CML Autoline Assembled

Using Copper (Cu) Wire

```
●
dddddddddddd
dddddddbyyww
rrbffbxxx
lllbnnnnnn
AAA
   □ C
```

Lines 1 – 4: 13 characters per line

1st line is the marketing part number

2nd line is the remaining marketing part number and datecode

3rd line is the backend revision, fab site and COO

4th line is 'CYP' and lot code

5th line (3 characters) is the strip ID applicable only for CML Autoline Assembled

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: CY8C3445LTI-089

Line 1: CY8C3445LTI-0
Line 2: 89 1307
Line 3: A 04 PHI
Line 4: CYP 610578
Line 5: AAA

```
●
CY8C3445LTI-0
89 1307
A 04 PHI
CYP 610578
        □
```
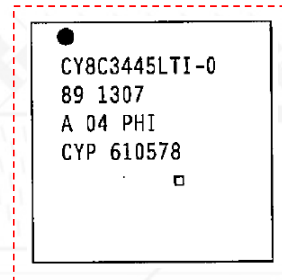
Packages :
- QFN48 – 7XX mm
- QFN56 – 8X8 mm

Reference: 37-00001, Figure 36

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QFN 48L/56L

Using Gold (Au) Wire

```
●

  dddddddddd
  dddddddddd
  yywwbrrbffb
  lllbnnnnnnb
  xxx
          ■
```

Lines 1 – 4: 11 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is 'CYP' and lot code

5th line (3 characters) is COO
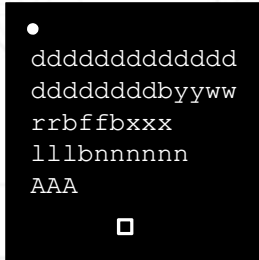
Using Copper (Cu) Wire

```
●

  dddddddddd
  dddddddddd
  yywwbrrbffb
  lllbnnnnnnb
  xxx
       ■ c
```

Lines 1 – 4: 11 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is 'CYP' and lot code

5th line (3 characters) is COO

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CY8C3246LTI-128

Line 1: CY8C3246LTI
Line 2: -128
Line 3: 1125 A 04
Line 4: CYP 632770
Line 5: PHI

```
●

CY8C3246LTI
-128
1125 A 04
CYP 632770
PHI    ▫
         .
```

Packages :
• QFN 68L – 8x8x mm

Reference: 37-00001, Figure 58

CYPRESS
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QFN 88L

Using Gold (Au) Wire

```
●
dddddddddd
dddddddddd
yywwbrrbffb
lllbnnnnnnb
xxx
AAA  □
```

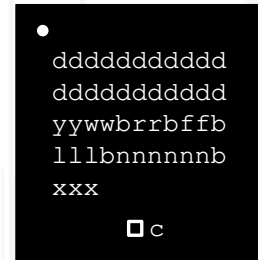Lines 1 – 4: 11 characters per line

1st and 2nd line is the marketing part number

3rd line is the date code, backend revision and fab site

4th line is 'CYP' and lot code

5th line (3 characters) is COO

6th line (3 characters) is the strip ID applicable only for CML Autoline Assembled

Using Copper (Cu) Wire

```
●
dddddddddd
dddddddddd
yywwbrrbffb
lllbnnnnnnb
xxx
  □ c
```

Lines 1 – 4: 11 characters per line

1st and 2nd line is the marketing part number
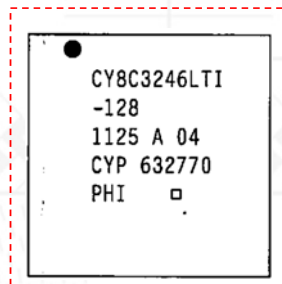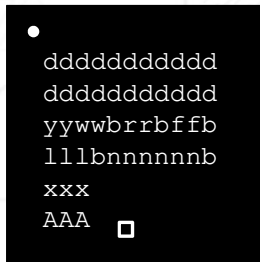
3rd line is the date code, backend revision and fab site

4th line is 'CYP' and lot code

5th line (3 characters) is COO

6th line (3 characters) is the strip ID applicable only for CML Autoline Assembled

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.
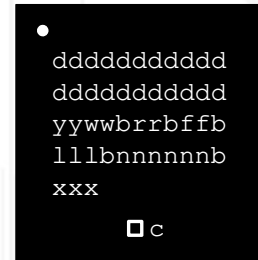
Example Marking Format: : CY8CTMA884LTI-13

Line 1: CY8CTMA884L
Line 2: TI-13
Line 3: 1131 C 04
Line 4: CYP 640430
Line 5: PHI
Line 6: AAA

```
●
CY8CTMA884L
TI-13
1131 C  04
CYP 640430
PHI    □
AAA
```

Packages :
• QFN88 – 8x8 mm

Reference: 37-00001, Figure 59
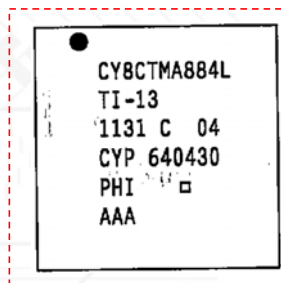
WLCSP 30L

Using Gold (Au) Wire

```
• ddd
  ddd
  yww
  nnnn□
```

1st and 2nd line (3 characters) is the marketing part number

3rd line (3 characters) is the date code – 'yww'

4th line (4 characters) is the last 4 digit if lot code

Example Marking Format: : CY8C20634-12FDXIT

Line 1: CY-
Line 2: 634
Line 3: 949
Line 4: 3041

```
• CY-
  634
  949
  3041 □
```

Packages :
• WLCSP30 – 1.85X2.31 mm

Reference: 37-00001, Figure 109

CYPRESS
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WLCSP 30L

Using Gold (Au) Wire

```
•
  dddddddddd
  dddddddddd
  dddddbyyww
  rrff
  nnnnnn
                    ▫
```
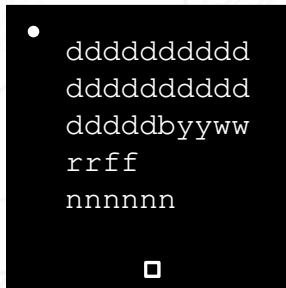
1st and 2nd line (9 characters) is the marketing part number

3rd line (9 characters) is the remaining part number and the date code

4th line (4 characters) is the backend revision fn fab site.

5th line (6 characters) is the lot code

- -

Example Marking Format: : CY8C20767-24FDXCT

Line 1: CY8C20767
Line 2: -24FDXC
Line 3: 1201
Line 4: A 05
Line 5: 600369

```
  •
  CY8C20767
  -24FDXC
  1201
  A 05
  600369

       ▫
```
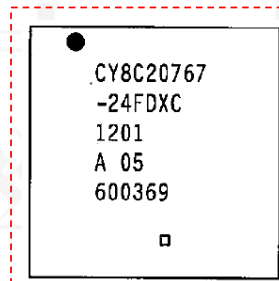
Packages :
- WLCSP30 – 2.2x2.3 mm

Reference: 37-00001, Figure 121

CYPRESS
EMBEDDED IN TOMORROW

WLCSP 49L

Using Gold (Au) Wire
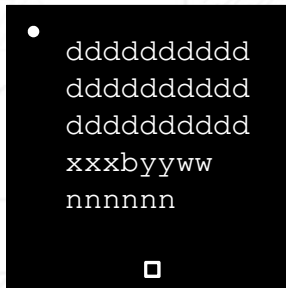
Line 1 – 3 (10 characters) is the marketing part number

4th line (8 characters) is the COO and datecode

5th line (6 characters) is the lot code

Example Marking Format: : CY8C20767-24FDXCT

Example:
Part Number: CY8CTMA300E-49FNXI
Line 1: CY8CTMA300
Line 2: E-49FNXI
Line 3: TWN 1207
Line 4: 601740
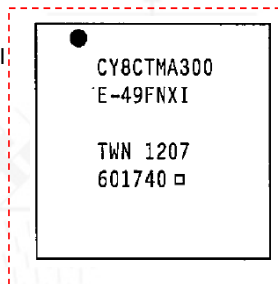
Note:

1. First three lines will be mark with Marketing Part numbers only. If Marketing Part number exceeds 10 characters, Mark only the first 10 characters of the marketing part number. Ignore splitting and wrap first 10 characters over the first three lines.

Packages :
- WLCSP49 – 3.2.2x3.2 mm

Reference: 37-00001, Figure 120

WLCSP 49L/60L/34L/DFN 14L

Using Gold (Au) Wire

```
dddddddddd
dddddddddd
dddddddddd
xxxbyyww
rrff
nnnnnn
```

Line 1 – 3 (10 characters) is the marketing part number

4th line (8 characters) is the COO and datecode

5th line (4 characters) is the backend revision and fab site

6th line (6 characters) is the lot code

No Example Available

Packages :
- WLCSP49/60 – 3.7x3.8 mm
- WLCSP34 – 2.495x2.44 mm
- DFN14 – 2.5x3.5 mm

Reference: 37-00001, Figure 122

WLCSP 81L/131L

Using Gold (Au) Wire

```
•   dddd
    dddddd
    yywwbn
    nnnn
      □
```

1st line (4 characters) is the marketing part number

2nd line (6 characters) is the marketing part number

3rd line (6 characters) is the date code and the first digit of the lot code

4th line (4 characters) is the last 4 digit if lot code

Using Copper (Cu) Wire

```
•   dddd
    dddddd
    yywwbn
    nnnn
    □ c
```

1st line (4 characters) is the marketing part number

2nd line (6 characters) is the marketing part number

3rd line (6 characters) is the date code and the first digit of the lot code

4th line (4 characters) is the last 4 digit if lot code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: : CYWB0124ABX-FDXIT

Line 1: CYWB
Line 2: 0124AB
Line 3: 1101 6
Line 4: 0795

```
•   CYWB
    0124AB
    1101 6
    0795
      □
```

Note:

1. First two lines will be mark with Marketing Part numbers only. If Marketing Part number exceeds 10 characters, Mark only the first 10 characters of the marketing part number. Ignore splitting and wrap first 10 characters over the first two lines.

Reference: 37-00001, Figure 55

WLCSP 35L/60L/72L

Using Gold (Au) Wire
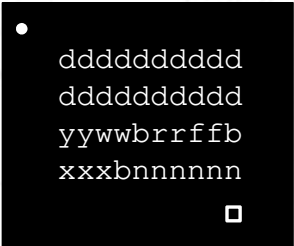
```
dddddddddd
dddddddddd
yywwbrrffb
xxxbnnnnnn
```

1st line (10 characters) is the marketing part number

2nd line (10 characters) is the marketing part number

3rd line (10 characters) is the date code , backend part and Fab location

4th line (10 characters) is the country of origin, and mark lot number

No Example Available

Reference: 37-00001
Figure 127

FRAM PARTS

FBGA 48L
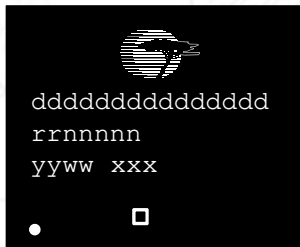
Line 1: Marketing Part Number

Line 2: **rrnnnnn**
    where:
        rr – BE Part rev Code (can be 1 or 2 characters)
        nnnnnn – Cy assembly lot#

Line 3: **yyww** - Date Code, **xxx** – Country of origin

Example Marking Format: : FM28V402-BGC

Line 1: FM28V402-BGC
Line 2: A 618477
Line 3: C 1319 TWN
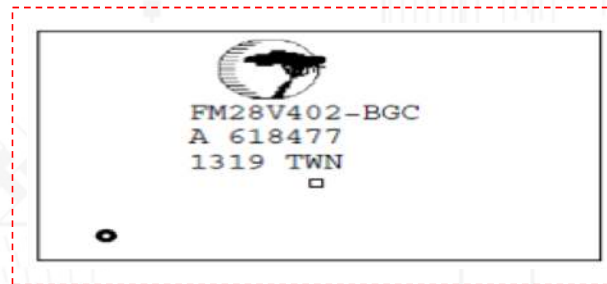
Reference: 37-00001, Figure 50
                PIN135228

DFN 8L

dddddd
nnnnnn
yyww
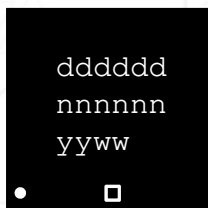
Line 1: Truncated Marketing Part Number

Line 2: **nnnnnn** - Cy assembly lot#

Line 3: **yyww** - Date Code

➢ 3x3mm 8 lead TDFN will NOT have square mark

Example Marking Format: : FM24CL64B-DG

Line 1: R4L64B
Line 2: 626151
Line 3: 1325

R4L64B
626151
1325
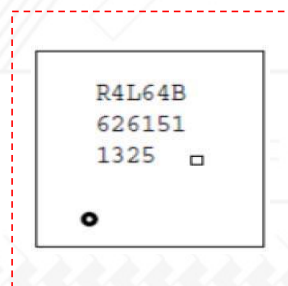
Reference: 37-00001, Figure 48

PIN135228
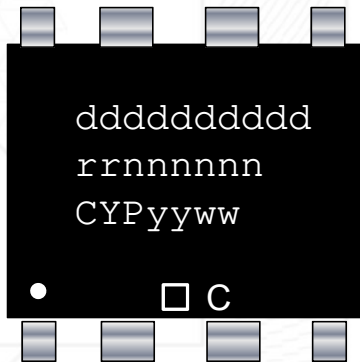
CYPRESS
EMBEDDED IN TOMORROW

PDIP 8L

```
 dddddddddd
rrnnnnnn
CYPyyww

    □ C
```

Line 1: Marketing Part Number

Line 2: **rrnnnnnn**
   where:
      rr - BE Part Rev Code (can be 1 or 2 characters)
      nnnnnn - Cy assembly lot#

Line 3: **CYPyyww**
   where:
      CYP – Cypress
      yyww- Date Code

The 'C' beside the square mark (Pb-Free mark) denotes the use of copper wire.

Example Marking Format: FM25H20-PG

Line 1: FM25H20-PG
Line 2: A 624126
Line 3: CYP1325

```
FM25H20-PG
A 624126
CYP1325

○                  □
```

Package:
• PDIP 8L – 300 mils
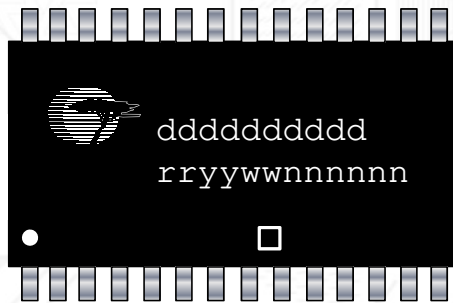
Reference: 37-00001, Figure 1A
                PIN135228

CYPRESS
EMBEDDED IN TOMORROW

PDIP 28L

Line 1: Marketing Part Number

Line 2: **rrYYWWnnnnnn**
  where:
    rr - BE Part Rev Code (can be 1 or 2 characters)
    yyww - Date Code
    nnnnnn - Cy assembly lot#

Example Marking Format: FM1608B-PG

Line 1: FM1608B-PG
Line 2: BA1325628365
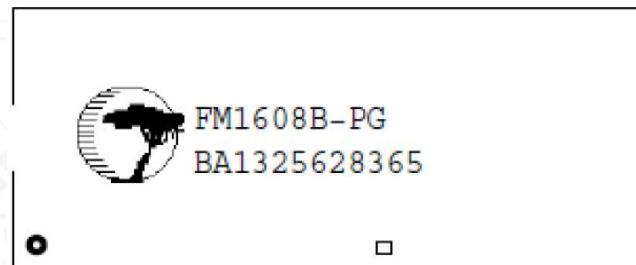
Package:
• PDIP 28L – 600 mils

Reference: 37-00001, Figure 3A
               PIN135228

EIAJ 8L

```
dddddddd
rrnnnnnn
CYPyyww

 •      ◻
```

Row1: Marketing Part Number

Row2: **rrnnnnnn**
    where:
       rr-BE Part rev Code (can be 1 or 2 characters)
       nnnnnn - Cy assembly lot#

Row3: **CYPyyww**
    where:
       CYP – Cypress
       yyww - Date Code

Example Marking Format: FM24V10-G

Line 1: FM24V10-G
Line 2: A 628492
Line 3: CYP1325

```
FM24V10-G
A 628492
CYP1325

   ◻

 ◉
```

Package:
• EIAJ 8L – 209 mils
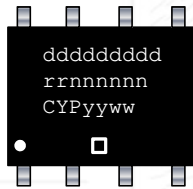
Reference: 37-00001, Figure 34A
                PIN135228

CYPRESS
EMBEDDED IN TOMORROW

SOIC 8L

Line 1: Marketing Part Number

Line 2: **rrnnnnnn**
  where:
    rr - BE Part Rev Code (can be 1 or 2 characters)
    nnnnnn- Cy assembly lot# n

Line 3: **CYPyyww**
  where:
    CYP – Cypress
    yyww- Date Code

Example Marking Format: FM24C16B-G

Line 1: FM24C16B-G
Line 2: A 627423
Line 3: CYP1325

Reference: PIN135228
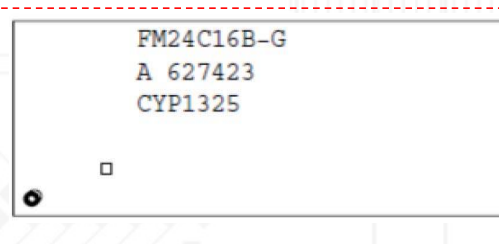
SOIC 14L

Line 1: Marketing Part Number

Line 2: **rrnnnnnn**
    where:
        rr - BE Part Rev Code (can be 1 or 2 characters)
        nnnnnn- Cy assembly lot#

Line 3: **CYP yyww xxx**
    where:
        CYP – Cypress
        yyww – Date Code
        xxx – Country of origin

```
dddddddddd
rrnnnnnn
CYP yyww xxx
```

Example Marking Format: FM33256B-G

Line 1: FM33256B-G
Line 2: A 614751
Line 3: CYP 1313 THA

```
FM33256B-G
A 614751
CYP 1313 THA
```

Package:
• SOIC 14 – 150 mils

Reference: 37-00001, Figure 33
PIN135228
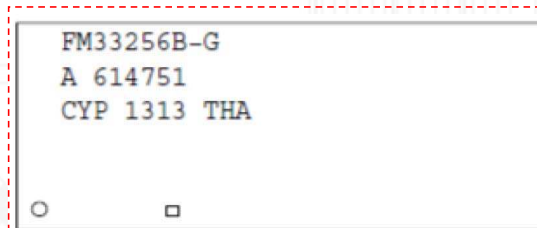
SOIC 28L

Line 1: Marketing Part Number

Line 2: **rryywwnnnnnn**
  where:
    rr - BE Part Rev Code (can be 1 or 2 characters)
    yyww – Date Code
    nnnnnn- Cy assembly lot#

- -

Example Marking Format: : FM1608B-SG

Line 1: FM1608B-SG
Line 2: B 1325628495

Package:
- SOIC 28 – 300 mils

Reference: 37-00001, Figure 6A
               PIN135228

TSOP 44L

Line 1: Marketing Part Number

Line 2: **rrnnnnnn**
   where:
      rr-BE Part rev Code (can be 1 or 2 characters)
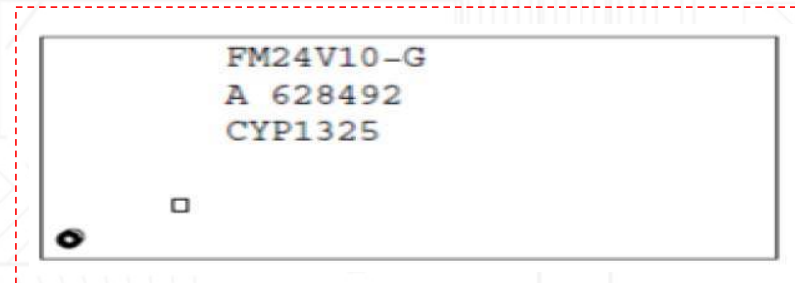   **nnnnnn -** Cy assembly lot

Row3: **yyww xxx**
   where:
      yyww – Date Code
      xxx – Country of origin

Example Marking Format: : FM28V202-TG

Line 1: FM28V202-TG
Line 2: A 631745
Line 3: 1331 TWN
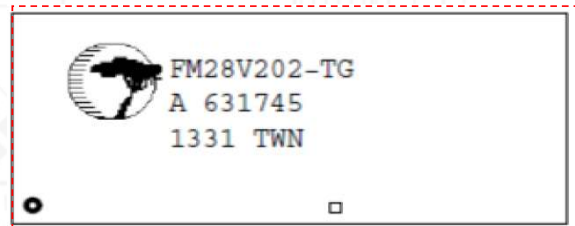
Package:
• TSOP II 44 - 435 mils
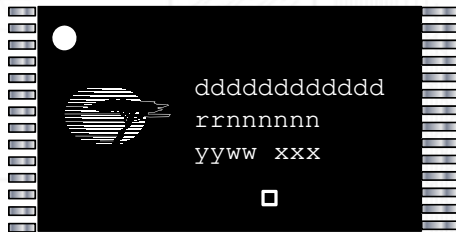
Reference: 37-00001, Figure 7A
PIN135228

CYPRESS
EMBEDDED IN TOMORROW

TSOP I

Line 1: Marketing Part Number

Line 2: **rrnnnnnn**
    where:
        rr – BE Part rev Code (can be 1 or 2 characters)
        nnnnn – Cy assembly lot#

Line 3: **yyww xxx**
    where:
        yyww – Date Code
        xxx – Country of origin

```
dddddddddddd
rrnnnnnn
yyww xxx
```

Example Marking Format: : FM28V020-TG

Line 1: FM28V020-TG
Line 2: A 615067
Line 3: 1313 TWN

```
FM28V020-TG
A 615067
1313 TWN
```
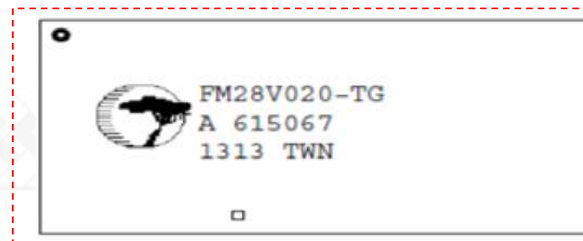
Package:
- TSOP I 28
- TSOP I 32

Reference: 37-00001, Figure 37
                       PIN135228

CYPRESS
EMBEDDED IN TOMORROW

FLASH PARTS

CYPRESS
EMBEDDED IN TOMORROW

FBGA

SPANSION ®
dddddddddddd
ywwnnnnn   X
coo
© yy SPANSION

Logo - Spansion Logo

1st line – Part number (dddddddddddd)

2nd line – Date code, die code (ywwnnnn x)

3rd line – Country of Origin (coo)

4th line – Copyright (© yy SPANSION)

Example OPN:

S34ML01G100BHV000

S34ML04G100BHI000

S34ML01G100BHI000

S25FL256SAGBHIA10

S25FL256SAGBHIA13

SPANSION ®
FL256SAIHA1
552BB125 D
THAILAND
© 10 SPANSION

Packages:
VBM063 / LAD080
V2B063 / FAA064
LAA064 / LAA080
VBK048 / LAE064
FAB024 / FAC024

Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code, X= die code

TSOP

```
dddddddddddddd
ywwnnnnn    X
© yy SPANSION
```

Logo - Spansion Logo

1st line – Part number (dddddddddddddddd)

2nd line – Date code, die code (ywwnnnnn x)

3rd line – Copyright (© yy SPANSION)

Example OPN:

S29GL064N90TFI04   S29GL128S90TFI010

S29GL032N90TFI04   S29GL256S90TFI020

S34ML01G200TFI000   S29GL256S90TFI010

S29GL256P90TFI010   S29GL128S90TFI020

S34ML02G100TFI000

S34ML01G100TFI000

```
S29GL256S90TFI02
434BB412   B
© 10 SPANSION
```

Package:
• TSOP 48
• TSOP 56

Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code, X= die code

CYPRESS
EMBEDDED IN TOMORROW™

SOIC 8L

```
SPANSION ®
dddddddd
  ywwnn
●  nnn X
```
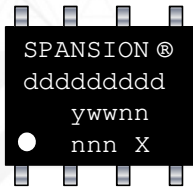
1st line – Logo line (SPANSION ®)

2nd line – Part number (dddddddd)

3rd line – Date code (ywwnn)

4th line – Date code, die code   (nnn X)

```
SPANSION ®
ddddddddd
ywwnnnn X
●    © yy
```

1st line – Logo line (SPANSION ®)

2nd line – Part number (dddddddd)

3rd line - Date code, Die Code (ywwnnnn x)

4th line - Copyright (© yy)

Example OPN:

S25FL216K0PMFI041

S25FL116K0XMFI040

S25FL132K0XMFI041

```
SPANSION ®
FL116KIF4
  523JJ
●  016  A
```
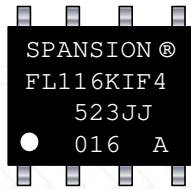
SOIC 8 – 150 mils

Example OPN:

S25FL164K0XMFI011

S25FL008A0LMFI001

S25FL016A0LMFI010

S25FL032P0XMFI010

S25FL127SABMFI103

```
SPANSION ®
FL164KIF01
614JJ046
●    © 12
```
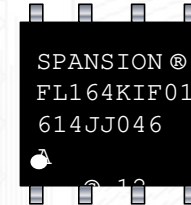
SOC 8 - 208 mils

Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code, X= die code

SOIC 16L

SO3016 / SL3016

Logo - Spansion Logo

1st line – Part number
       (dddddddddddd)

2nd line – Date code, die code
       (ywwnnnn X)

3rd line – Copyright
       (© yy SPANSION)

Example OPN:

S25FL256SAGMFIG01

S25FL512SAGMFI011

S25FL256SAGMFI000

S25FL128SAGMFI003

S25FL128SAGMFMG00

S25FL064P0XMFI001

Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code, X= die code

USON/WSON

Package code:

WNA008 / UNE008 / WNF008 / WNG008 / WNH008

SPANSION®
dddddddddd
ywwnnnnn X
coo
© yy
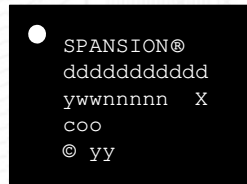
Logo - SPANSION ®

1st line – Part number
(dddddddddd)

2nd line – Date code, die code
(ywwnnnnn X)

3rd line – Country of Origin
(coo)

4th line – Copyright
(© yy)

- -

Example OPN:

S25FS256SAGNFI001

S25FS256SAGNFI003

S25FS512SAGNFI001

S25FS512SAGNFI003

SPANSION®
FL128SAIF00
622QQ009 A
TAIWAN
© 11

Package:
- WNA008
- UNE008
- WF008
- WNG008
- WNH008

Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code

CYPRESS
EMBEDDED IN TOMORROW™

PLCC 32L

Logo - Spansion Logo

1st line – Part number
  (dddddddd)

2nd line – Part number (extended)
  (-ddddd)

3rd line – Date code, die code
  (ywwnnnnn X)

4th line – Copyright
  (© yyyy ZZZ)

```
SPANSION ®
dddddddd
–dddd
ywwnnnnn   X
© yyyy   ZZZ
```

PL032

Example OPN:

AM29F010B-120JD

AM29F040B-120PD
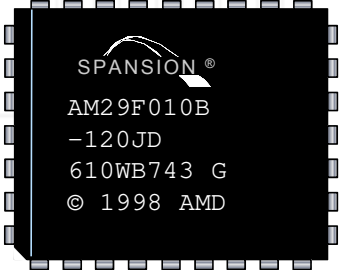
```
SPANSION ®
AM29F010B
–120JD
610WB743 G
© 1998 AMD
```

Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code, X= die code

CYPRESS
EMBEDDED IN TOMORROW

PQFP 80L

PQR080
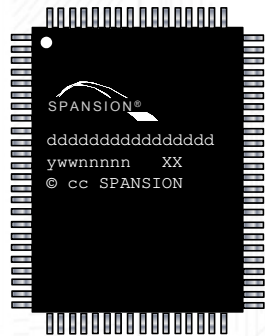
Logo - Spansion Logo

1st line – Part number
       (dddddddddddddd)

2nd line – Date code, die code
       (ywwnnnnn X)

3rd line – Copyright
       (© cc SPANSION)

Example OPN:

S29CD016J0MQFM01

S29CD032J0MQFI000
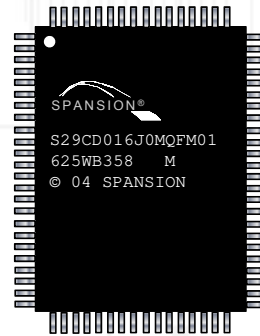
Note:

1.   Date code yww: y= last digit of the year, ww= work week, nnnnn= location code, X= die code

IoT PARTS

FBGA/LGA/FCBGA/QFN

```
P1Bddddddddd
dddddddddd
YwwBRRBFF
lllBNNNNNNN
xxxbbsqbc
```

Line 1: Pin1dot Marketing Part Number (1st 8 letter)
Line 2: Marketing Part Number remaining
Line 3: Date code, Backend Part Rev, Fab location
Line 4: CYP, assembly lot number
Line 5: COO, Pb Free Square, C for Cu wire

No: "C" Marking is required for FCFBGA/RFCFBGA.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location
- LLL: CYP

- -

Example Marking Format: CYW20734UA1KFFB3G.

```
● CYW20734
UA1KFFB3G
1633 AB 04
CYP 645842
TWN  □ C
```

Packages: (mm)
- FBGA64 – 7X7
- FBGA81 – 8X8
- FBGA   – 9X9, 11X11
- LGA   – 6.5X6.5
- FCBGA - 7X9, 8.5X8.5, 10X10, 7X6
- QFN56, QFN60 – 7X7
- QFN68 – 8X8
- QFN52 – 8X7
- QFN76 – 9X9
- QFN88 – 10X10

Reference: 37-00001

QFN 40L

```
P1Bdddddddddd
dddddddddddd
YwwBRRBFF
lllBNNNNNNN
xxxbbsqbc
```

Line 1: Pin1dot Marketing Part Number (1st 7 letter)
Line 2: Marketing Part Number remaining
Line 3: Date code, Backend Part Rev, Fab location
Line 4: CYP, assembly lot number
Line 5: COO, Pb Free Square, C for Cu wire

.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location
- LLL: CYP

- -

Example Marking Format: CYW20736A1KWBG

```
●  CYW2073
6A1KWBG
1633  AB  04
CYP  645842
TWN   □ C
```

Package: (mm)
- QFN40 – 6X6

CYPRESS
EMBEDDED IN TOMORROW

Reference: 37-00001

FBGA

```
P1Bdddddddd
dddddddddd
YwwBRRB
FFBNNNNNN
xxxbbsqbc
```

Line 1: Pin1dot Marketing Part Number (1st 6 letter)
Line 2: Marketing Part Number remaining
Line 3: Date code, Backend Part Rev
Line 4: Fab location, assembly lot number
Line 5: COO, Pb Free Square, C for Cu wire

.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location

- -

Example Marking Format: CYW20733A2KML1G

```
● CYW207
33A2KML1G
1633  AB
04  645842
TWN  □ C
```

Package: (mm)
- FBGA66 – 5.5X4.5
- FBGA72 – 5.5X5

FBGA/QFN

```
P1Bdddddddddd
dddddddddddd
DDBYww
NNNNNN
xxxbbsqbc
```

Line 1: Pin1dot Marketing Part Number (1st 5 letter)
Line 2: Marketing Part Number remaining 8 letters
Line 3: Marketing Part Number remaining, date code
Line 4: Assembly lot number
Line 5: COO, Pb Free Square, C for Cu wire

.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Date code, WW Work Week
- RR: Backend Part Number
- FF: Fab location

Example Marking Format: CYW2046SB1KUFBG

```
● CYW20
46SB1KUF
BG  1633
645842
TWN   □ C
```

Packages: (mm)
- FBGA65 – 5x5
- QFN32/QFN40 – 5X5

Reference: 37-00001

FBGA 65

```
P1Bdddddddddd
dddddddddddd
DD
YwwbNNNNNN
xxxbbsqbc
```

Line 1: Pin1dot Marketing Part Number (1st 4 letter)
Line 2: Marketing Part Number remaining 7 letters
Line 3: Marketing Part Number remaining
Line 4: Date code Assembly lot number
Line 5: COO, Pb Free Square, C for Cu wire

.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location

- -

Example Marking Format: CYW20713A1KUFBXG

```
● CYW2
713A1KU
FBXG
633 842
TWN □ C
```

Packages: (mm)
- FBGA65 – 4.5X4

Reference: 37-00001

FCBGA 49

```
P1Bdddddddd
dddddddddd
DD
YwwbNNNNNN
```

Line 1: Pin1dot Marketing Part Number (1st 4 letter)
Line 2: Marketing Part Number remaining 7 letters
Line 3: Marketing Part Number remaining
Line 4: Date code Assembly lot number

.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location

Example Marking Format: CYW20704UA1KFFB1G

```
● CYW2
713A1KU
FBXG
633  842
TWN □ C
```

Packages: (mm)
- FCBGA49 – 4.5X4

Reference: 37-00001

LGA

```
P1Bdddddddddd
dddddddddddd
DD
NNNNNN
```

Line 1: Pin1dot Marketing Part Number (1st 3 letters)
Line 2: Marketing Part Number remaining 5 letters
Line 3: Marketing Part Number remaining
Line 4: Assembly lot number

.

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location

Example Marking Format: CYW20732Y

```
● CYW
20732
Y 633
842
```

Packages: (mm)
- LGA27: 3.2X3.5

WLCSP

```
P1Bddddddddd
dddddd
YwwBRRBFF
NNNNNN
xxxbbsqbc
```

Line 1: Pin1dot Marketing Part Number (1at 8 letters)
Line 2: Marketing Part Number
Line 3: Date code, Backend Part Rev, Fab location
Line 4: CYP assembly lot number
Line 5: COO, Pb Free Square
Line 6: CC-RR for die location

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location
- LLL: CYP

- -

Example Marking Format: CYW43241XFKWBG

```
● CYW43241
XFKWBG
1633 AB 04
CYP 645842
TWN    □
CC-RR
```

Packages: (mm)
- WLCSP : 6.51X5.81, 6.57X5.62, 5.73X5.62, 5.88X4.4
  4.87X7.67, 4.97X7.5, 4.97X7.7, 4.47X5.67, 4.9X5.84
  4.91X5.8, 4.47X5.27, 4.89X5.33, 4.87X5.41, 2.87X4.87
  3.01X2.5

Reference: 37-00001

WLCSP

```
P1Bdddddddd
dddddd
YwwBRRB
FFBNNNNNN
xxxbbsq
```

Line 1: Pin1dot Marketing Part Number (1st 7 letters)
Line 2: Marketing Part Number
Line 3: Date code, Backend Part Rev
Line 4: Fab location assembly lot number
Line 5: COO, Pb Free Square
Line 6: CC-RR for die location ID

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location
- LLL: CYP

- -

Example Marking Format: CYW20736A1KWBG

```
● CYW2073
6A1KWBG
1633  AB
04  645842
TWN    □
CCC-RRR
```

Packages: (mm)
- WLCSP69: 4.53X2.93
- WLCSP/WLCSP36: 2.51X2.77

Reference: 37-00001

WLCSP

```
P1Bdddddddd
dddddd
YwwBRRB
FFBNNNNNN
xxxbbsq
```

Line 1: Pin1dot Marketing Part Number (1st 5 letters)
Line 2: Marketing Part Number
Line 3: Date code, COO
Line 4: Assembly lot number
Line 5: CC-RR for die ID location

Note:
- B : Blank space
- P1 : Pin 1
- D: Marketing Part Number
- YYWW: YY Datecode, WW Work Week
- RR: Backend Part Number
- FF: Fab location
- LLL: CYP

- -

Example Marking Format: CYW20736A1KWBG

```
● CYW207
36A1KWBG
1633  TWN
645842
CCC-RRR
```

Packages: (mm)
- WLCSP80: 2.16X2.18

Reference: 37-00001

HISTORY PAGE

	Owner	Description of Change
Rev. 7	JARG	1. Updated Slide 38 title from BGA 36 – BGA48 to BGA36, BGA38, BGA60 AND BGA121 2. Added Example 2 for BGA121 package
Rev. 8	HLR	1. Changed RAMTRON name to FRAM. 2. Added the marking format for uFBGA 48.
Rev. 9	HLR	Corrected the position of leads for FRAM- TSOPI 28L and TSOPI 32L
Rev. 10	HLR	Added the marking format for 60 balls WLCSP and 35 balls WLCSP based on Fig. 127. Added 34 balls WLCSP and 14L DFN based on Fig. 122.
Rev. 11	MRB	Align the marking format for SOJ28-44 (page 11) based from Figure 9 on Final Mark Specification (37-00001) Deleted and replaced the example marking format for TSOP 28 - TSOP 48 (page 20) from 4 liners to 3 liners based from Figure 27 on Final Mark Format Specification (37-00001)
Rev. 12	MRB	Rewrite and pattern the marking explanation of TSOP 28 to TSOP 48 (page 20) from TSOP 32 (page 21)
Rev. 13	MRB	1. Updated Cypress Logo 2. Added available package width size based on spec 37-00001 3. Deleted Figure 50 on page 67 and Figure 52 on page 63 to align in spec 37-00001 4. Updated character lines from 4 to 3 line on page 22 based on the example marking format
Rev. 14	MRB	1. Added Legacy Spansion Marking Format 2. Added package size on page 4 and corrected the reference from Figure 45 to Figure 33 3. Added package size on page 66 and corrected the reference from Figure 45A to Figure 34A

HISTORY PAGE

	Owner	Description of Change
Rev. 15	HLR	Changed the Unit Orientation Format for TSSOP 8.
Rev. 16	MRB	Added IOT Marking format Removed sample word and rewrite/align all ftext Changed to new template
Rev 17	MRB	Corrected the example marking format for LGA 27 (page 88)

CYPRESS
EMBEDDED IN TOMORROW

End of Memo