

PACKAGE INFORMATION

6. MARKINGS

This document is Chapter 6 of the package information document consisting of 8 chapters in total.

6. MARKINGS

There are two kinds of marking layout; “standard marking layout” that is specified by Oki Electric and “special marking layout” that is specified by the customer.

6.1 Standard Marking Layout

(1) Marking items

Company logo..... OKI (Trade mark)
 Country of manufacture..... JAPAN, etc.
 Model name Mxxxxxx (abbreviation: as shown below)
 Lot number Between 3 digits and 7 digits depending on the size of a package
 (Refer to Table 6-1, Lot Number Composition)
 Control number..... Marked only when it is required
 (Refer to Figure 6-1, Marking Layout List)

Table 6.1 Lot Number Composition

	Lot number digits	Year code (the last digit of the Decade)	Week code (01 - 53)	Running code	Example
Plastic	4 digits	1 digit	2 digits	1 digit	7011
	5 digits			2 digits	70121
	6 digits			3 digits	701201
	7 digits			4 digits	7012201

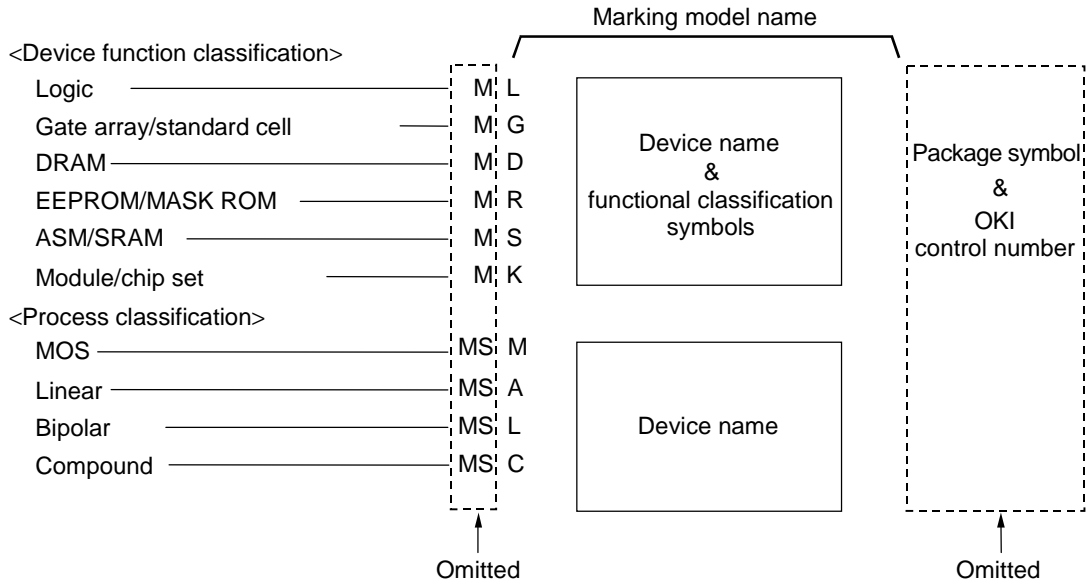
	Lot number digits	Year code (the last digit of the Decade)	Month code (Oct.: X, Nov.: Y, Dec.: Z)	Running code	Example
Ceramic	3 digits	1 digit	1 digit	1 digit	7011
	4 digits			2 digits	7X01

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<Model name abbreviation method>

In the old model name abbreviation method, model names were classified into MOS, linear, bipolar, and compound devices depending on the type of process technology.

In the new model name abbreviation method, model names are classified depending on the type of function. During a transition period, some devices may use the old model name abbreviation method. Therefore, both old and new model name abbreviation methods are described below.



[Example-1] Model name : MSM100-001GS-BK
 Marking model name : M100-001

[Example-2] Model name : ML100GA
 Marking model name : L100

[Example-3] Model name : ML100GAZ100
 Marking model name: L100Z 1

Diagram illustrating the breakdown of the marking model name L100Z 1:

- L: Function classification symbol (1 to 5)
- 100: Package symbol
- Z: OKI control number
- 1: Delimiter symbol

(2) Marking Layout and Character Size

The Marking Layout and Character Size are specified for respective packages.
For details, refer to the Tables and Figures shown below.

Table 6.2 Marking Layout List

Table 6.3 Character Size List

Figure 6.1 Marking Layout List

Figure 6.2 Marking Examples

Table 6.2 Marking Layout List

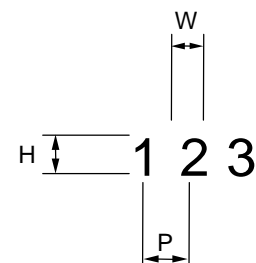
	Inspection Mounting Type Package			Surface Mounting Type Package		
	Package Type	Pin No.	Marking Layout	Package Type	Pin No.	Marking Layout
Plastic	DIP	8P	C	SOP SSOP	8P	D
		others	A		10P	C
	Skinny DIP	—	A		others	A or K
	Shrink DIP	—	A	TSOP (1)	—	F
	ZIP	—	A	TSOP (2)	—	E
				QFP/LQFP	—	A
				TQFP	—	A or J
				SOJ	—	A
				QFJ (PLCC)	20P	G
					others	A
				BGA	—	A
				LGA	—	L
	LFBGA	84p or less	L			
LFBGA	144p or more	M				
Ceramic	DIP	—	B	QFP	—	B or H
	CER DIP	—	B or D			
	PGA	—	B or C			

Table 6.3 Character Size List

(Unit: mm)

	a	b	c	d
Height (H)	0.9	1.0	1.2	1.6
Width (W)	0.45	0.5	0.6	0.8
Pitch (P)	0.75	0.78	0.9	1.2

* The character sizes of 1, 4, I, M, W have a little different values.



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	Marking Layout		Marking Layout
A		B	
C		D	
E		F	
G		H	
J		K	
L		M	

* In the above marking layout examples, JAPAN is marked as the country of manufacture where the product was assembled.

* In some packages, a long name of assembly country such as "INDONESIA" cannot be marked.

* Control Number may not be marked for reasons of OKI's own.

Figure 6.1 Marking Layout List

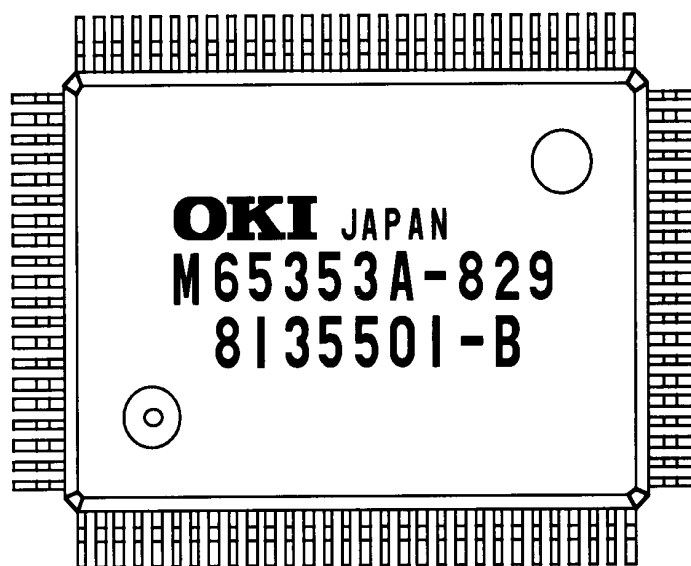
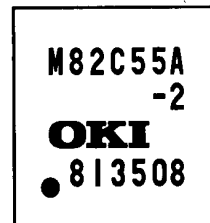
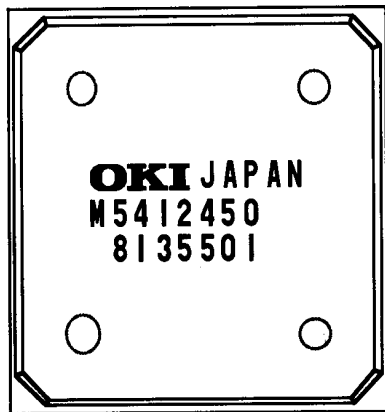


Figure 6.2 Marking Examples

6.2 Special Marking Layout

The customer can specify a special marking layout for devices other than general purpose devices.
Contact our sales people.

Note: The manuscript is required when the customer wants to mark its own trademark.
The customer's trademark may be unable to be marked if the package marking area is too small to mark the trademark. In this case, the customer is asked to submit the manuscript of an alternative trademark.
Note that the lot number must be always marked and that a lot of time is required for processing the special marking.