

Application Note

LMK6x OPN Decoder



ABSTRACT

The LMK6x orderable part numbers (OPNs) from Texas Instruments contain information about the frequency and package of the device. This application note provides a quick summary of how to decode this information as well as provides a list of LMK6x orderable part numbers (OPNs) with associated configurations, packaging information, and device top marking.

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Trademarks

All trademarks are the property of their respective owners.

1 Introduction

LMK6x orderable part number naming is descriptive and contains both feature and package information. This application note provides guidance on how this information is decoded.

Table 3-1 through Table 6-1 list the OPNs of LMK6x variants. Use Section 2 as a reference for how to decode this OPN information and refer to Section 3 through Section 6 for decoded information from the LMK6x OPNs.

Contact TI to learn more about a possible variant that is not listed in this application note.

2 How to Decode OPN Information

Figure 2-1 and Figure 2-2 demonstrate the information encoded in the LMK6x orderable part numbers.

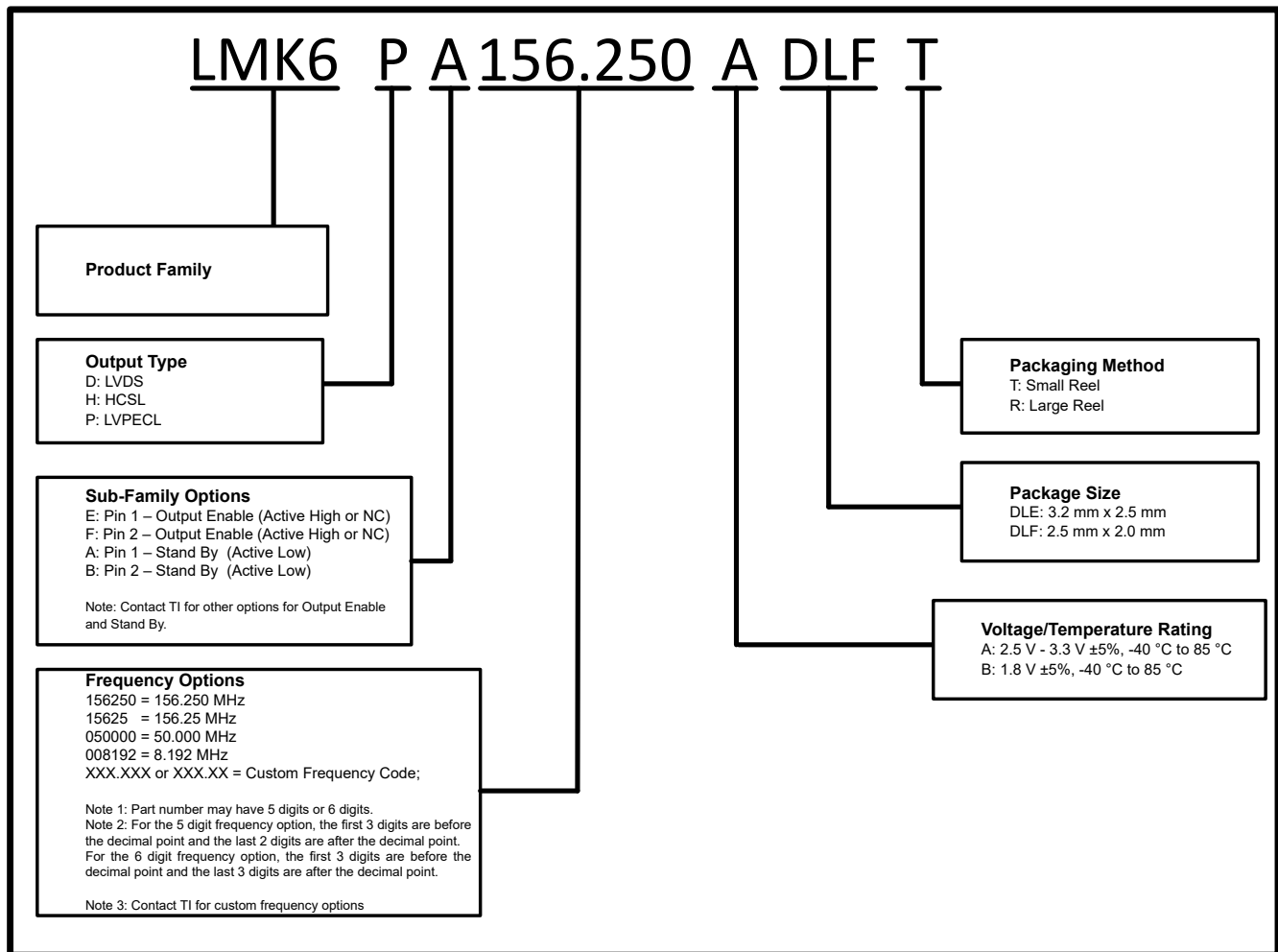


Figure 2-1. LMK6D, LMK6H, and LMK6P Part Number Guide

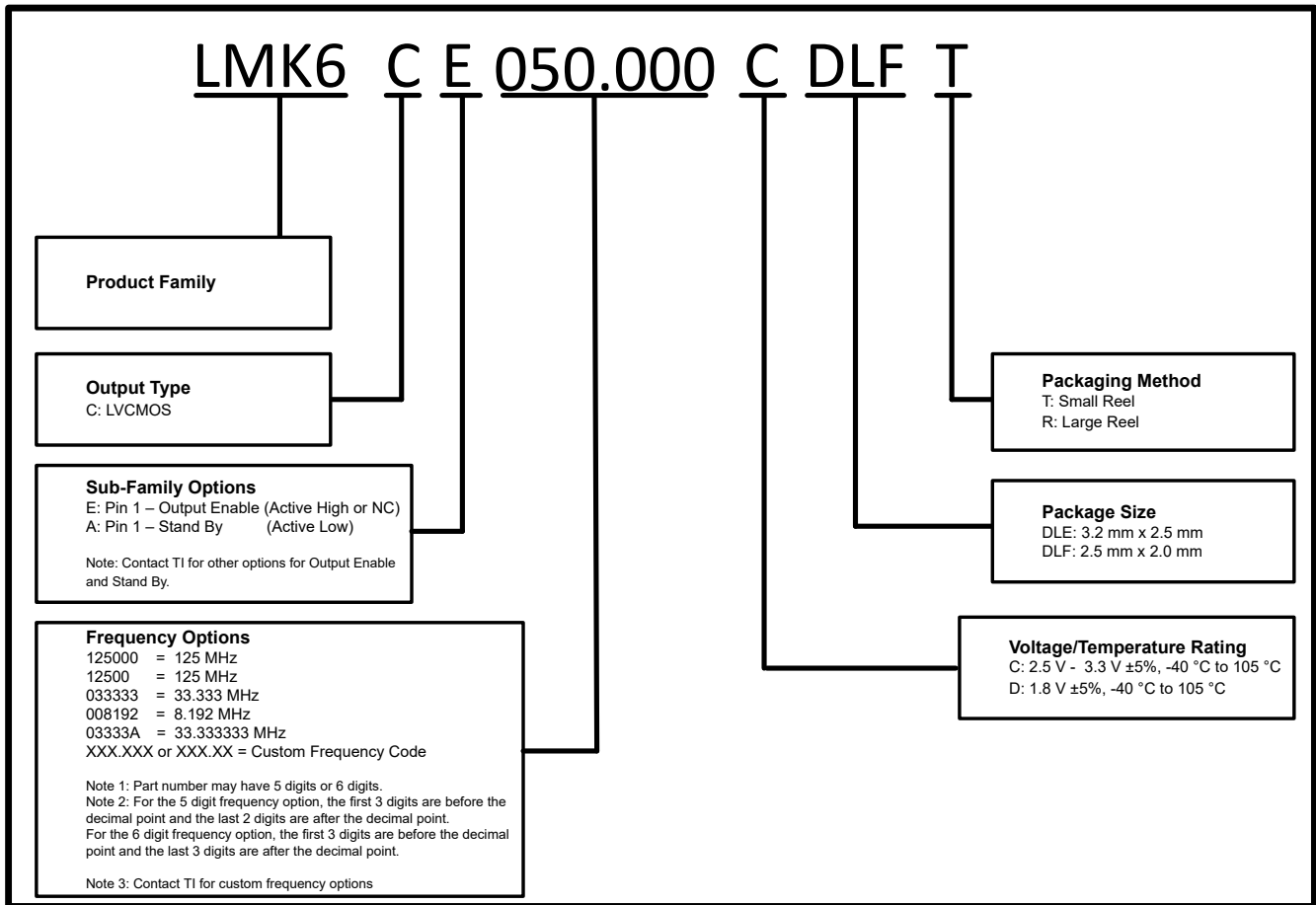


Figure 2-2. LMK6C Part Number Guide

The structure of this nomenclature is as follows:

Table 2-1. LMK6x Nomenclature Structure (17 Digit OPN)

Digit Position	Number of Digits	Digit Meaning
1-4	4	The product family
5	1	The output type
6	1	Sub-family options
7-12	6	Output Frequency
13	1	The temperature and voltage range
14-16	3	The package size
17	1	The packaging method

Table 2-2. LMK6x Nomenclature Structure (16 Digit OPN)

Digit Position	Number of Digits	Digit Meaning
1-4	4	The product family
5	1	The output type
6	1	Sub-family options
7-11	5	Output Frequency
12	1	The temperature and voltage range
14-15	3	The package size
16	1	The packaging method

As noted in [Figure 2-1](#) and [Figure 2-2](#), the number of digits to describe the frequency option information can be 5 or 6, depending on the part. Regardless of the 5-digit or 6-digit configuration, the decimal point used to indicate the frequency range, is always located after the 3rd digit in the frequency information. The decimal placement appears after the 9th digit in the full part number.

Frequency information that can not fit within 6 digits can have an extra character appended to indicate that the device output frequency has a higher precision than the part number allows. For example, a frequency code of "03333A" indicates an output frequency of 33.333333MHz.

3 LMK6C

Table 3-1 provides the list LMK6C OPNs with the frequency, supply voltage, and package information.

Table 3-1. LMK6C OPN Information

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CE001000DDLFR	LVC MOS	Output Enable	1	1.8V	DLE	Large Reel	LC1R
LMK6CE001000DDLET	LVC MOS	Output Enable	1	1.8V	DLE	Small Reel	LC1R
LMK6CE002048CDLFR	LVC MOS	Output Enable	2.048	2.5V to 3.3V	DLF	Large Reel	LCBS
LMK6CE002048CDLFT	LVC MOS	Output Enable	2.048	2.5V to 3.3V	DLF	Small Reel	LCBS
LMK6CE00400CDLER	LVC MOS	Output Enable	4	2.5V to 3.3V	DLE	Large Reel	LCBL
LMK6CE00400CDLET	LVC MOS	Output Enable	4	2.5V to 3.3V	DLE	Small Reel	LCBL
LMK6CE00400CDLFR	LVC MOS	Output Enable	4	2.5V to 3.3V	DLF	Large Reel	LCBL
LMK6CE00400CDLFT	LVC MOS	Output Enable	4	2.5V to 3.3V	DLF	Small Reel	LCBL
LMK6CE004000DDLFR	LVC MOS	Output Enable	4	1.8V	DLF	Large Reel	LC1L
LMK6CE004000DDLFT	LVC MOS	Output Enable	4	1.8V	DLF	Small Reel	LC1L
LMK6CE008192CDLFR	LVC MOS	Output Enable	8.192	2.5V to 3.3V	DLF	Large Reel	LCBK
LMK6CE008192CDLFT	LVC MOS	Output Enable	8.192	2.5V to 3.3V	DLF	Small Reel	LCBK
LMK6CE01000DDLFR	LVC MOS	Output Enable	10	1.8V	DLF	Large Reel	LC1V
LMK6CE01000DDLFT	LVC MOS	Output Enable	10	1.8V	DLF	Small Reel	LC1V
LMK6CE01200CDLER	LVC MOS	Output Enable	12	2.5V to 3.3V	DLE	Large Reel	HCB D
LMK6CE01200CDLET	LVC MOS	Output Enable	12	2.5V to 3.3V	DLE	Small Reel	HCB D
LMK6CE012288CDLFR	LVC MOS	Output Enable	12.288	2.5V to 3.3V	DLF	Large Reel	LCBJ
LMK6CE012288CDLFT	LVC MOS	Output Enable	12.288	2.5V to 3.3V	DLF	Small Reel	LCBJ
LMK6CE01600CDLER	LVC MOS	Output Enable	16	2.5V to 3.3V	DLE	Large Reel	HCBK
LMK6CE01600CDLET	LVC MOS	Output Enable	16	2.5V to 3.3V	DLE	Small Reel	HCBK
LMK6CE016000DDLFR	LVC MOS	Output Enable	16	1.8V	DLF	Large Reel	HC1K
LMK6CE016000DDLFT	LVC MOS	Output Enable	16	1.8V	DLF	Small Reel	HC1K
LMK6CE01920CDLFR	LVC MOS	Output Enable	19.2	2.5V to 3.3V	DLF	Large Reel	HCB B
LMK6CE01920CDLFT	LVC MOS	Output Enable	19.2	2.5V to 3.3V	DLF	Small Reel	HCB B
LMK6CE01920DDLFR	LVC MOS	Output Enable	19.2	1.8V	DLF	Large Reel	HC1B

Table 3-1. LMK6C OPN Information (continued)

Device ⁽¹⁾ ⁽²⁾	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CE01920DDLFT	LVC MOS	Output Enable	19.2	1.8V	DLF	Small Reel	HC1B
LMK6CA02000CDLER	LVC MOS	Stand By	20	2.5V to 3.3V	DLE	Large Reel	HCDA
LMK6CA02000CDLET	LVC MOS	Stand By	20	2.5V to 3.3V	DLE	Small Reel	HCDA
LMK6CE02000CDLER	LVC MOS	Output Enable	20	2.5V to 3.3V	DLE	Large Reel	HCBA
LMK6CE02000CDLET	LVC MOS	Output Enable	20	2.5V to 3.3V	DLE	Small Reel	HCBA
LMK6CA02000CDLFR	LVC MOS	Stand By	20	2.5V to 3.3V	DLF	Large Reel	HCDA
LMK6CA02000CDLFT	LVC MOS	Stand By	20	2.5V to 3.3V	DLF	Small Reel	HCDA
LMK6CE02000CDLFR	LVC MOS	Output Enable	20	2.5V to 3.3V	DLF	Large Reel	HCBA
LMK6CE02000CDLFT	LVC MOS	Output Enable	20	2.5V to 3.3V	DLF	Small Reel	HCBA
LMK6CE02000DDLFR	LVC MOS	Output Enable	20	1.8V	DLF	Large Reel	HC1A
LMK6CE02000DDLFT	LVC MOS	Output Enable	20	1.8V	DLF	Small Reel	HC1A
LMK6CE02400CDLER	LVC MOS	Output Enable	24	2.5V to 3.3V	DLE	Large Reel	LCBI
LMK6CE02400CDLET	LVC MOS	Output Enable	24	2.5V to 3.3V	DLE	Small Reel	LCBI
LMK6CE02400DDLFR	LVC MOS	Output Enable	24	1.8V	DLE	Large Reel	LC1I
LMK6CE02400DDLET	LVC MOS	Output Enable	24	1.8V	DLE	Small Reel	LC1I
LMK6CE02400CDLFR	LVC MOS	Output Enable	24	2.5V to 3.3V	DLF	Large Reel	LCBI
LMK6CE02400CDLFT	LVC MOS	Output Enable	24	2.5V to 3.3V	DLF	Small Reel	LCBI
LMK6CE02400DDLFR	LVC MOS	Output Enable	24	1.8V	DLF	Large Reel	LC1I
LMK6CE02400DDLFT	LVC MOS	Output Enable	24	1.8V	DLF	Small Reel	LC1I
LMK6CE02400DDLFR	LVC MOS	Output Enable	24	1.8V	DLF	Large Reel	LC1I
LMK6CE02400DDLFT	LVC MOS	Output Enable	24	1.8V	DLF	Small Reel	LC1I
LMK6CE024576CDLER	LVC MOS	Output Enable	24.576	2.5V to 3.3V	DLE	Large Reel	LCBH
LMK6CE024576CDLET	LVC MOS	Output Enable	24.576	2.5V to 3.3V	DLE	Small Reel	LCBH
LMK6CE024576CDLFR	LVC MOS	Output Enable	24.576	2.5V to 3.3V	DLF	Large Reel	LCBH
LMK6CE024576CDLFT	LVC MOS	Output Enable	24.576	2.5V to 3.3V	DLF	Small Reel	LCBH
LMK6CE024576DDLFR	LVC MOS	Output Enable	24.576	1.8V	DLF	Large Reel	LC1H
LMK6CE024576DDLFT	LVC MOS	Output Enable	24.576	1.8V	DLF	Small Reel	LC1H
LMK6CE02500CDLER	LVC MOS	Output Enable	25	2.5V to 3.3V	DLE	Large Reel	LCBG

Table 3-1. LMK6C OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CE02500CDLET	LVC MOS	Output Enable	25	2.5V to 3.3V	DLE	Small Reel	LCBG
LMK6CE02500DDLER	LVC MOS	Output Enable	25	1.8V	DLE	Large Reel	LC1G
LMK6CE02500DDLET	LVC MOS	Output Enable	25	1.8V	DLE	Small Reel	LC1G
LMK6CE02500CDLFR	LVC MOS	Output Enable	25	2.5V to 3.3V	DLF	Large Reel	LCBG
LMK6CE02500CDLFT	LVC MOS	Output Enable	25	2.5V to 3.3V	DLF	Small Reel	LCBG
LMK6CE02500DDLFR	LVC MOS	Output Enable	25	1.8V	DLF	Large Reel	LC1G
LMK6CE02500DDLFT	LVC MOS	Output Enable	25	1.8V	DLF	Small Reel	LC1G
LMK6CE02500DDLFR	LVC MOS	Output Enable	25	1.8V	DLF	Large Reel	LC1G
LMK6CE02500DDLFT	LVC MOS	Output Enable	25	1.8V	DLF	Small Reel	LC1G
LMK6CE02560DDLFR	LVC MOS	Output Enable	25.6	1.8V	DLF	Large Reel	LC1T
LMK6CE02560DDLFT	LVC MOS	Output Enable	25.6	1.8V	DLF	Small Reel	LC1T
LMK6CE02560CDLFR	LVC MOS	Output Enable	25.6	2.5V to 3.3V	DLF	Large Reel	LCBT
LMK6CE02560CDLFT	LVC MOS	Output Enable	25.6	2.5V to 3.3V	DLF	Small Reel	LCBT
LMK6CE02600CDLFR	LVC MOS	Output Enable	26	2.5V to 3.3V	DLF	Large Reel	LCBF
LMK6CE02600CDLFT	LVC MOS	Output Enable	26	2.5V to 3.3V	DLF	Small Reel	LCBF
LMK6CA026214DDLFR	LVC MOS	Stand By	26.214	1.8V	DLF	Large Reel	HC30
LMK6CA026214DDLFT	LVC MOS	Stand By	26.214	1.8V	DLF	Small Reel	HC30
LMK6CE027000DDLFR	LVC MOS	Output Enable	27	1.8V	DLF	Large Reel	HC19
LMK6CE027000DDLFT	LVC MOS	Output Enable	27	1.8V	DLF	Small Reel	HC19
LMK6CE028125CDLFR	LVC MOS	Output Enable	28.125	2.5V to 3.3V	DLF	Large Reel	HCBJ
LMK6CE028125CDLFT	LVC MOS	Output Enable	28.125	2.5V to 3.3V	DLF	Small Reel	HCBJ
LMK6CE029992CDLFR	LVC MOS	Output Enable	29.992	2.5V to 3.3V	DLF	Large Reel	LCBU
LMK6CE029992CDLFT	LVC MOS	Output Enable	29.992	2.5V to 3.3V	DLF	Small Reel	LCBU
LMK6CE030000CDLER	LVC MOS	Output Enable	30	2.5V to 3.3V	DLE	Large Reel	LCBD
LMK6CE030000CDLET	LVC MOS	Output Enable	30	2.5V to 3.3V	DLE	Small Reel	LCBD
LMK6CE030000CDLFR	LVC MOS	Output Enable	30	2.5V to 3.3V	DLF	Large Reel	LCBD
LMK6CE030000CDLFT	LVC MOS	Output Enable	30	2.5V to 3.3V	DLF	Small Reel	LCBD
LMK6CA032768DDLFR	LVC MOS	Stand By	32.768	1.8V	DLF	Large Reel	HC3P

Table 3-1. LMK6C OPN Information (continued)

Device ⁽¹⁾ ⁽²⁾	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CA032768DDLFT	LVC MOS	Stand By	32.768	1.8V	DLF	Small Reel	HC3P
LMK6CE03333CDLER	LVC MOS	Output Enable	33.33	2.5V to 3.3V	DLE	Large Reel	HCBT
LMK6CE03333CDLET	LVC MOS	Output Enable	33.33	2.5V to 3.3V	DLE	Small Reel	HCBT
LMK6CE03333DDLER	LVC MOS	Output Enable	33.33	1.8V	DLE	Large Reel	HC1T
LMK6CE03333DDLET	LVC MOS	Output Enable	33.33	1.8V	DLE	Small Reel	HC1T
LMK6CE03333CDLFR	LVC MOS	Output Enable	33.33	2.5V to 3.3V	DLF	Large Reel	HCBT
LMK6CE03333CDLFT	LVC MOS	Output Enable	33.33	2.5V to 3.3V	DLF	Small Reel	HCBT
LMK6CE03333DDLFR	LVC MOS	Output Enable	33.33	1.8V	DLF	Large Reel	HC1T
LMK6CE03333DDLFT	LVC MOS	Output Enable	33.33	1.8V	DLF	Small Reel	HC1T
LMK6CE03333CDLER	LVC MOS	Output Enable	33.333	2.5V to 3.3V	DLE	Large Reel	HCB8
LMK6CE03333CDLET	LVC MOS	Output Enable	33.333	2.5V to 3.3V	DLE	Small Reel	HCB8
LMK6CA03333CDLFR	LVC MOS	Stand By	33.333	2.5V to 3.3V	DLF	Large Reel	HCD8
LMK6CA03333CDLFT	LVC MOS	Stand By	33.333	2.5V to 3.3V	DLF	Small Reel	HCD8
LMK6CA03333DDLFR	LVC MOS	Stand By	33.333	1.8V	DLF	Large Reel	HC38
LMK6CA03333DDLFT	LVC MOS	Stand By	33.333	1.8V	DLF	Small Reel	HC38
LMK6CE03333CDLFR	LVC MOS	Output Enable	33.333	2.5V to 3.3V	DLF	Large Reel	HCB8
LMK6CE03333CDLFT	LVC MOS	Output Enable	33.333	2.5V to 3.3V	DLF	Small Reel	HCB8
LMK6CE03333DDLFR	LVC MOS	Output Enable	33.333	1.8V	DLF	Large Reel	HC18
LMK6CE03333DDLFT	LVC MOS	Output Enable	33.333	1.8V	DLF	Small Reel	HC18
LMK6CE03333ACDLER	LVC MOS	Output Enable	33.333333	2.5V to 3.3V	DLE	Large Reel	CBU
LMK6CE03333ACDLET	LVC MOS	Output Enable	33.333333	2.5V to 3.3V	DLE	Small Reel	CBU
LMK6CE04000CDLER	LVC MOS	Output Enable	40	2.5V to 3.3V	DLE	Large Reel	HCB6
LMK6CE04000CDLET	LVC MOS	Output Enable	40	2.5V to 3.3V	DLE	Small Reel	HCB6
LMK6CE04000CDLFR	LVC MOS	Output Enable	40	2.5V to 3.3V	DLF	Large Reel	HCB6
LMK6CE04000CDLFT	LVC MOS	Output Enable	40	2.5V to 3.3V	DLF	Small Reel	HCB6
LMK6CE04000DDLFR	LVC MOS	Output Enable	40	1.8V	DLF	Large Reel	HC16
LMK6CE04000DDLFT	LVC MOS	Output Enable	40	1.8V	DLF	Small Reel	HC16
LMK6CE04800CDLER	LVC MOS	Output Enable	48	2.5V to 3.3V	DLE	Large Reel	LCBC
LMK6CE04800CDLET	LVC MOS	Output Enable	48	2.5V to 3.3V	DLE	Small Reel	LCBC

Table 3-1. LMK6C OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CE04800DDLER	LVC MOS	Output Enable	48	1.8V	DLE	Large Reel	LC1C
LMK6CE04800DDLET	LVC MOS	Output Enable	48	1.8V	DLE	Small Reel	LC1C
LMK6CE04800CDLER	LVC MOS	Output Enable	48	2.5V to 3.3V	DLE	Large Reel	LCBC
LMK6CE04800CDLET	LVC MOS	Output Enable	48	2.5V to 3.3V	DLE	Small Reel	LCBC
LMK6CE04800CDLFR	LVC MOS	Output Enable	48	2.5V to 3.3V	DLF	Large Reel	LCBC
LMK6CE04800CDLFT	LVC MOS	Output Enable	48	2.5V to 3.3V	DLF	Small Reel	LCBC
LMK6CE04800DDLFR	LVC MOS	Output Enable	48	1.8V	DLF	Large Reel	LC1C
LMK6CE04800DDLFT	LVC MOS	Output Enable	48	1.8V	DLF	Small Reel	LC1C
LMK6CE04800CDLFR	LVC MOS	Output Enable	48	2.5V to 3.3V	DLF	Large Reel	LCBC
LMK6CE04800CDLFT	LVC MOS	Output Enable	48	2.5V to 3.3V	DLF	Small Reel	LCBC
LMK6CE049152CDLFR	LVC MOS	Output Enable	49.152	2.5V to 3.3V	DLF	Large Reel	HCBR
LMK6CE049152CDLFT	LVC MOS	Output Enable	49.152	2.5V to 3.3V	DLF	Small Reel	HCBR
LMK6CE05000CDLER	LVC MOS	Output Enable	50	2.5V to 3.3V	DLE	Large Reel	LCBB
LMK6CE05000CDLET	LVC MOS	Output Enable	50	2.5V to 3.3V	DLE	Small Reel	LCBB
LMK6CE05000DDLER	LVC MOS	Output Enable	50	1.8V	DLE	Large Reel	LC1B
LMK6CE05000DDLET	LVC MOS	Output Enable	50	1.8V	DLE	Small Reel	LC1B
LMK6CE05000CDLER	LVC MOS	Output Enable	50	2.5V to 3.3V	DLE	Large Reel	LCBB
LMK6CE05000CDLET	LVC MOS	Output Enable	50	2.5V to 3.3V	DLE	Small Reel	LCBB
LMK6CE05000CDLFR	LVC MOS	Output Enable	50	2.5V to 3.3V	DLF	Large Reel	LCBB
LMK6CE05000CDLFT	LVC MOS	Output Enable	50	2.5V to 3.3V	DLF	Small Reel	LCBB
LMK6CE05000DDLFR	LVC MOS	Output Enable	50	1.8V	DLF	Large Reel	LC1B
LMK6CE05000DDLFT	LVC MOS	Output Enable	50	1.8V	DLF	Small Reel	LC1B
LMK6CE05000CDLFR	LVC MOS	Output Enable	50	2.5V to 3.3V	DLF	Large Reel	LCBB
LMK6CE05000CDLFT	LVC MOS	Output Enable	50	2.5V to 3.3V	DLF	Small Reel	LCBB
LMK6CE05000DDLFR	LVC MOS	Output Enable	50	1.8V	DLF	Large Reel	LC1B
LMK6CE05000DDLFT	LVC MOS	Output Enable	50	1.8V	DLF	Small Reel	LC1B
LMK6CE054000CDLER	LVC MOS	Output Enable	54	2.5V to 3.3V	DLE	Large Reel	HCBG

Table 3-1. LMK6C OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CE054000CDLET	LVC MOS	Output Enable	54	2.5V to 3.3V	DLE	Small Reel	HCBG
LMK6CE054000ADLFR	LVC MOS	Output Enable	54	2.5V to 3.3V	DLF	Large Reel	HCAG
LMK6CE054000ADLFT	LVC MOS	Output Enable	54	2.5V to 3.3V	DLF	Small Reel	HCAG
LMK6CE054000DDLFR	LVC MOS	Output Enable	54	1.8V	DLF	Large Reel	HC1G
LMK6CE054000DDLFT	LVC MOS	Output Enable	54	1.8V	DLF	Small Reel	HC1G
LMK6CE060000CDLER	LVC MOS	Output Enable	60	2.5V to 3.3V	DLE	Large Reel	LCBN
LMK6CE060000CDLET	LVC MOS	Output Enable	60	2.5V to 3.3V	DLE	Small Reel	LCBN
LMK6CE060000CDLFR	LVC MOS	Output Enable	60	2.5V to 3.3V	DLF	Large Reel	LCBN
LMK6CE060000CDLFT	LVC MOS	Output Enable	60	2.5V to 3.3V	DLF	Small Reel	LCBN
LMK6CE065536CDLFR	LVC MOS	Output Enable	65.536	2.5V to 3.3V	DLF	Large Reel	HCBF
LMK6CE065536CDLFT	LVC MOS	Output Enable	65.536	2.5V to 3.3V	DLF	Small Reel	HCBF
LMK6CE066000CDLFR	LVC MOS	Output Enable	66	2.5V to 3.3V	DLF	Large Reel	LCBW
LMK6CE066000CDLFT	LVC MOS	Output Enable	66	2.5V to 3.3V	DLF	Small Reel	LCBW
LMK6CE066666CDLFR	LVC MOS	Output Enable	66.66	2.5V to 3.3V	DLF	Large Reel	LCBX
LMK6CE066666CDLFT	LVC MOS	Output Enable	66.66	2.5V to 3.3V	DLF	Small Reel	LCBX
LMK6CE066666CDLER	LVC MOS	Output Enable	66.666	2.5V to 3.3V	DLE	Large Reel	LCBA
LMK6CE066666CDLET	LVC MOS	Output Enable	66.666	2.5V to 3.3V	DLE	Small Reel	LCBA
LMK6CE074250DDLFR	LVC MOS	Output Enable	74.25	1.8V	DLF	Large Reel	LC19
LMK6CE074250DDLFT	LVC MOS	Output Enable	74.25	1.8V	DLF	Small Reel	LC19
LMK6CE076800DDLFR	LVC MOS	Output Enable	76.8	1.8V	DLF	Large Reel	HC1E
LMK6CE076800DDLFT	LVC MOS	Output Enable	76.8	1.8V	DLF	Small Reel	HC1E
LMK6CE080000DDLFR	LVC MOS	Output Enable	80	1.8V	DLF	Large Reel	HC15
LMK6CE080000DDLFT	LVC MOS	Output Enable	80	1.8V	DLF	Small Reel	HC15
LMK6CE100000CDLER	LVC MOS	Output Enable	100	2.5V to 3.3V	DLE	Large Reel	LCB8
LMK6CE100000CDLET	LVC MOS	Output Enable	100	2.5V to 3.3V	DLE	Small Reel	LCB8
LMK6CE100000DDLFR	LVC MOS	Output Enable	100	1.8V	DLE	Large Reel	LC18
LMK6CE100000DDLET	LVC MOS	Output Enable	100	1.8V	DLE	Small Reel	LC18

Table 3-1. LMK6C OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6CA10000CDLER	LVC MOS	Stand By	100	2.5V to 3.3V	DLE	Large Reel	LCD8
LMK6CA10000CDLET	LVC MOS	Stand By	100	2.5V to 3.3V	DLE	Small Reel	LCD8
LMK6CE10000CDLFR	LVC MOS	Output Enable	100	2.5V to 3.3V	DLF	Large Reel	LCB8
LMK6CE10000CDLFT	LVC MOS	Output Enable	100	2.5V to 3.3V	DLF	Small Reel	LCB8
LMK6CE10000DDLFR	LVC MOS	Output Enable	100	1.8V	DLF	Large Reel	LC18
LMK6CE10000DDLFT	LVC MOS	Output Enable	100	1.8V	DLF	Small Reel	LC18
LMK6CE10800DDLFR	LVC MOS	Output Enable	108	1.8V	DLF	Large Reel	HC11
LMK6CE10800DDLFT	LVC MOS	Output Enable	108	1.8V	DLF	Small Reel	HC11
LMK6CE12500CDLER	LVC MOS	Output Enable	125	2.5V to 3.3V	DLE	Large Reel	LCB6
LMK6CE12500CDLET	LVC MOS	Output Enable	125	2.5V to 3.3V	DLE	Small Reel	LCB6
LMK6CE12500CDLFR	LVC MOS	Output Enable	125	2.5V to 3.3V	DLF	Large Reel	LCB6
LMK6CE12500CDLFT	LVC MOS	Output Enable	125	2.5V to 3.3V	DLF	Small Reel	LCB6
LMK6CE12500DDLFR	LVC MOS	Output Enable	125	1.8V	DLF	Large Reel	LC16
LMK6CE12500DDLFT	LVC MOS	Output Enable	125	1.8V	DLF	Small Reel	LC16
LMK6CE15625CDLER	LVC MOS	Output Enable	156.25	2.5V to 3.3V	DLE	Large Reel	LCB2
LMK6CE15625CDLET	LVC MOS	Output Enable	156.25	2.5V to 3.3V	DLE	Small Reel	LCB2
LMK6CE15625CDLFR	LVC MOS	Output Enable	156.25	2.5V to 3.3V	DLF	Large Reel	LCB2
LMK6CE15625CDLFT	LVC MOS	Output Enable	156.25	2.5V to 3.3V	DLF	Small Reel	LCB2
LMK6CE15625DDLFR	LVC MOS	Output Enable	156.25	1.8V	DLF	Large Reel	LC12
LMK6CE15625DDLFT	LVC MOS	Output Enable	156.25	1.8V	DLF	Small Reel	LC12

(1) Contact TI for status of OPNs listed here that have not yet been released to product folders on ti.com

(2) Contact TI for more information on creating a new OPN for a device configuration not listed here

4 LMK6D

Table 4-1 provides the list LMK6D OPNs with the frequency, supply voltage, and package information.

Table 4-1. LMK6D OPN Information

Device ⁽¹⁾ ⁽²⁾	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6DA02500ADLFR	LVDS	Stand By	25	2.5V to 3.3V	DLF	Large Reel	LDAG
LMK6DA02500ADLFT	LVDS	Stand By	25	2.5V to 3.3V	DLF	Small Reel	LDAG
LMK6DE026000ADLER	LVDS	Output Enable	26	2.5V to 3.3V	DLE	Large Reel	LDGF
LMK6DE026000ADLET	LVDS	Output Enable	26	2.5V to 3.3V	DLE	Small Reel	LDGF
LMK6DE050000ADLER	LVDS	Output Enable	50	2.5V to 3.3V	DLE	Large Reel	LDGB
LMK6DE050000ADLET	LVDS	Output Enable	50	2.5V to 3.3V	DLE	Small Reel	LDGB
LMK6DE050000BDLER	LVDS	Output Enable	50	1.8V	DLE	Large Reel	LD7B
LMK6DE050000BDLET	LVDS	Output Enable	50	1.8V	DLE	Small Reel	LD7B
LMK6DA05184ADLER	LVDS	Stand By	51.84	2.5V to 3.3V	DLE	Large Reel	HDAH
LMK6DA05184ADLET	LVDS	Stand By	51.84	2.5V to 3.3V	DLE	Small Reel	HDAH
LMK6DA10000ADLER	LVDS	Stand By	100	2.5V to 3.3V	DLE	Large Reel	LDA8
LMK6DA10000ADLET	LVDS	Stand By	100	2.5V to 3.3V	DLE	Small Reel	LDA8
LMK6DE10000BDLER	LVDS	Output Enable	100	1.8V	DLE	Large Reel	LD78
LMK6DE10000BDLET	LVDS	Output Enable	100	1.8V	DLE	Small Reel	LD78
LMK6DE10000ADLER	LVDS	Output Enable	100	2.5V to 3.3V	DLE	Large Reel	LDG8
LMK6DE10000ADLET	LVDS	Output Enable	100	2.5V to 3.3V	DLE	Small Reel	LDG8
LMK6DA10000ADLFR	LVDS	Stand By	100	2.5V to 3.3V	DLF	Large Reel	LDA8
LMK6DA10000ADLFT	LVDS	Stand By	100	2.5V to 3.3V	DLF	Small Reel	LDA8
LMK6DE108000BDLFR	LVDS	Output Enable	108	1.8V	DLF	Large Reel	HD7I
LMK6DE108000BDLFT	LVDS	Output Enable	108	1.8V	DLF	Small Reel	HD7I
LMK6DA12288ADLER	LVDS	Stand By	122.88	2.5V to 3.3V	DLE	Large Reel	HDA4
LMK6DA12288ADLET	LVDS	Stand By	122.88	2.5V to 3.3V	DLE	Small Reel	HDA4
LMK6DA12288ADLFR	LVDS	Stand By	122.88	2.5V to 3.3V	DLF	Large Reel	HDA4
LMK6DA12288ADLFT	LVDS	Stand By	122.88	2.5V to 3.3V	DLF	Small Reel	HDA4
LMK6DA12500ADLER	LVDS	Stand By	125	2.5V to 3.3V	DLE	Large Reel	LDA6
LMK6DA12500ADLET	LVDS	Stand By	125	2.5V to 3.3V	DLE	Small Reel	LDA6
LMK6DE125000ADLER	LVDS	Output Enable	125	2.5V to 3.3V	DLE	Large Reel	LDG6
LMK6DE125000ADLET	LVDS	Output Enable	125	2.5V to 3.3V	DLE	Small Reel	LDG6
LMK6DA12500ADLFR	LVDS	Stand By	125	2.5V to 3.3V	DLF	Large Reel	LDA6
LMK6DA12500ADLFT	LVDS	Stand By	125	2.5V to 3.3V	DLF	Small Reel	LDA6
LMK6DE133330ADLER	LVDS	Output Enable	133.33	2.5V to 3.3V	DLE	Large Reel	LDGY

Table 4-1. LMK6D OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6DE133330ADLET	LVDS	Output Enable	133.33	2.5V to 3.3V	DLE	Small Reel	LDGY
LMK6DE133333ADLER	LVDS	Output Enable	133.333	2.5V to 3.3V	DLE	Large Reel	LDG5
LMK6DE133333ADLET	LVDS	Output Enable	133.333	2.5V to 3.3V	DLE	Small Reel	LDG5
LMK6DE133333BDLFR	LVDS	Output Enable	133.333	1.8V	DLF	Large Reel	LD75
LMK6DE133333BDLFT	LVDS	Output Enable	133.333	1.8V	DLF	Small Reel	LD75
LMK6DA14835ADLER	LVDS	Stand By	148.35	2.5V to 3.3V	DLE	Large Reel	LDA4
LMK6DA14835ADLET	LVDS	Stand By	148.35	2.5V to 3.3V	DLE	Small Reel	LDA4
LMK6DA14850ADLER	LVDS	Stand By	148.5	2.5V to 3.3V	DLE	Large Reel	LDA3
LMK6DA14850ADLET	LVDS	Stand By	148.5	2.5V to 3.3V	DLE	Small Reel	LDA3
LMK6DA14850ADLFR	LVDS	Stand By	148.5	2.5V to 3.3V	DLF	Large Reel	LDA3
LMK6DA14850ADLFT	LVDS	Stand By	148.5	2.5V to 3.3V	DLF	Small Reel	LDA3
LMK6DA15552ADLER	LVDS	Stand By	155.52	2.5V to 3.3V	DLE	Large Reel	HDA3
LMK6DA15552ADLET	LVDS	Stand By	155.52	2.5V to 3.3V	DLE	Small Reel	HDA3
LMK6DA15625ADLER	LVDS	Stand By	156.25	2.5V to 3.3V	DLE	Large Reel	LDA2
LMK6DA15625ADLET	LVDS	Stand By	156.25	2.5V to 3.3V	DLE	Small Reel	LDA2
LMK6DA15625BDLER	LVDS	Stand By	156.25	1.8V	DLE	Large Reel	LD12
LMK6DA15625BDLET	LVDS	Stand By	156.25	1.8V	DLE	Small Reel	LD12
LMK6DE15625BDLER	LVDS	Output Enable	156.25	1.8V	DLE	Large Reel	LD72
LMK6DE15625BDLET	LVDS	Output Enable	156.25	1.8V	DLE	Small Reel	LD72
LMK6DA15625ADLFR	LVDS	Stand By	156.25	2.5V to 3.3V	DLF	Large Reel	LDA2
LMK6DA15625ADLFT	LVDS	Stand By	156.25	2.5V to 3.3V	DLF	Small Reel	LDA2
LMK6DA15625BDLFR	LVDS	Stand By	156.25	1.8V	DLF	Large Reel	LD12
LMK6DA15625BDLFT	LVDS	Stand By	156.25	1.8V	DLF	Small Reel	LD12
LMK6DE15625BDLFR	LVDS	Output Enable	156.25	1.8V	DLF	Large Reel	LD72
LMK6DE15625BDLFT	LVDS	Output Enable	156.25	1.8V	DLF	Small Reel	LD72
LMK6DA20000ADLER	LVDS	Stand By	200	2.5V to 3.3V	DLE	Large Reel	HDA1
LMK6DA20000ADLET	LVDS	Stand By	200	2.5V to 3.3V	DLE	Small Reel	HDA1
LMK6DA20000ADLFR	LVDS	Stand By	200	2.5V to 3.3V	DLF	Large Reel	HDA1
LMK6DA20000ADLFT	LVDS	Stand By	200	2.5V to 3.3V	DLF	Small Reel	HDA1
LMK6DA250000ADLFR	LVDS	Stand By	250	2.5V to 3.3V	DLF	Large Reel	LDAP
LMK6DA250000ADLFT	LVDS	Stand By	250	2.5V to 3.3V	DLF	Small Reel	LDAP
LMK6DA31250ADLER	LVDS	Stand By	312.5	2.5V to 3.3V	DLE	Large Reel	LDA0
LMK6DA31250ADLET	LVDS	Stand By	312.5	2.5V to 3.3V	DLE	Small Reel	LDA0
LMK6DA31250ADLFR	LVDS	Stand By	312.5	2.5V to 3.3V	DLF	Large Reel	LDA0
LMK6DA31250ADLFT	LVDS	Stand By	312.5	2.5V to 3.3V	DLF	Small Reel	LDA0
LMK6DE322265ADLFR	LVDS	Output Enable	322.265625	2.5V to 3.3V	DLF	Large Reel	HDGS
LMK6DE322265ADLFT	LVDS	Output Enable	322.265625	2.5V to 3.3V	DLF	Small Reel	HDGS

Table 4-1. LMK6D OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6DE390625BDLER	LVDS	Output Enable	390.625	1.8V	DLE	Large Reel	HD7L
LMK6DE390625BDLET	LVDS	Output Enable	390.625	1.8V	DLE	Small Reel	HD7L
LMK6DA40000ADLER	LVDS	Stand By	400	2.5V to 3.3V	DLE	Large Reel	LDAM
LMK6DA40000ADLET	LVDS	Stand By	400	2.5V to 3.3V	DLE	Small Reel	LDAM
LMK6DA40000ADLFR	LVDS	Stand By	400	2.5V to 3.3V	DLF	Large Reel	LDAM
LMK6DA40000ADLFT	LVDS	Stand By	400	2.5V to 3.3V	DLF	Small Reel	LDAM

5 LMK6H

Table 5-1 provides the list LMK6H OPNs with the frequency, supply voltage, and package information.

Table 5-1. LMK6H OPN Information

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6HA10000ADLER	HCSL	Stand By	100	2.5V to 3.3V	DLE	Large Reel	LHA8
LMK6HA10000ADLET	HCSL	Stand By	100	2.5V to 3.3V	DLE	Small Reel	LHA8
LMK6HE100000ADLER	HCSL	Output Enable	100	2.5V to 3.3V	DLE	Large Reel	LHG8
LMK6HE100000ADLET	HCSL	Output Enable	100	2.5V to 3.3V	DLE	Small Reel	LHG8
LMK6HA10000ADLFR	HCSL	Stand By	100	2.5V to 3.3V	DLF	Large Reel	LHA8
LMK6HA10000ADLFT	HCSL	Stand By	100	2.5V to 3.3V	DLF	Small Reel	LHA8
LMK6HA10000BDLFR	HCSL	Stand By	100	1.8V	DLF	Large Reel	LH18
LMK6HA10000BDLFT	HCSL	Stand By	100	1.8V	DLF	Small Reel	LH18
LMK6HA15625ADLER	HCSL	Stand By	156.25	2.5V to 3.3V	DLE	Large Reel	LHA2
LMK6HA15625ADLET	HCSL	Stand By	156.25	2.5V to 3.3V	DLE	Small Reel	LHA2
LMK6HA15625ADLFR	HCSL	Stand By	156.25	2.5V to 3.3V	DLF	Large Reel	LHA2
LMK6HA15625ADLFT	HCSL	Stand By	156.25	2.5V to 3.3V	DLF	Small Reel	LHA2
LMK6HE156250BDLFR	HCSL	Output Enable	156.25	1.8V	DLF	Large Reel	LH72
LMK6HE156250BDLFT	HCSL	Output Enable	156.25	1.8V	DLF	Small Reel	LH72
LMK6HA40000ADLER	HCSL	Stand By	400	2.5V to 3.3V	DLE	Large Reel	LHAM
LMK6HA40000ADLET	HCSL	Stand By	400	2.5V to 3.3V	DLE	Small Reel	LHAM
LMK6HA40000BDLER	HCSL	Stand By	400	1.8V	DLE	Large Reel	LH1M
LMK6HA40000BDLET	HCSL	Stand By	400	1.8V	DLE	Small Reel	LH1M
LMK6HE40000ADLER	HCSL	Output Enable	400	2.5V to 3.3V	DLE	Large Reel	LHGM
LMK6HE40000ADLET	HCSL	Output Enable	400	2.5V to 3.3V	DLE	Small Reel	LHGM
LMK6HE40000BDLER	HCSL	Output Enable	400	1.8V	DLE	Large Reel	LH7M
LMK6HE40000BDLET	HCSL	Output Enable	400	1.8V	DLE	Small Reel	LH7M
LMK6HA40000ADLFR	HCSL	Stand By	400	2.5V to 3.3V	DLF	Large Reel	LHAM
LMK6HA40000ADLFT	HCSL	Stand By	400	2.5V to 3.3V	DLF	Small Reel	LHAM
LMK6HE40000ADLFR	HCSL	Output Enable	400	2.5V to 3.3V	DLF	Large Reel	LHGM

Table 5-1. LMK6H OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6HE40000ADLFT	HCSL	Output Enable	400	2.5V to 3.3V	DLF	Small Reel	LHGM

6 LMK6P

Table 6-1 provides the list LMK6P OPNs with the frequency, supply voltage, and package information.

Table 6-1. LMK6P OPN Information

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6PE025000ADLER	LVPECL	Output Enable	25	2.5V to 3.3V	DLE	Large Reel	LPGG
LMK6PE025000ADLET	LVPECL	Output Enable	25	2.5V to 3.3V	DLE	Small Reel	LPGG
LMK6PA025000ADLFR	LVPECL	Stand By	25	2.5V to 3.3V	DLF	Large Reel	LPAG
LMK6PA025000ADLFT	LVPECL	Stand By	25	2.5V to 3.3V	DLF	Small Reel	LPAG
LMK6PA032500ADLFR	LVPECL	Stand By	32.5	2.5V to 3.3V	DLF	Large Reel	HPAM
LMK6PA032500ADLFT	LVPECL	Stand By	32.5	2.5V to 3.3V	DLF	Small Reel	HPAM
LMK6PA05400ADLFR	LVPECL	Stand By	54	2.5V to 3.3V	DLF	Large Reel	HPAG
LMK6PA05400ADLFT	LVPECL	Stand By	54	2.5V to 3.3V	DLF	Small Reel	HPAG
LMK6PA06500ADLFR	LVPECL	Stand By	65	2.5V to 3.3V	DLF	Large Reel	HPAN
LMK6PA06500ADLFT	LVPECL	Stand By	65	2.5V to 3.3V	DLF	Small Reel	HPAN
LMK6PA07680ADLFR	LVPECL	Stand By	76.8	2.5V to 3.3V	DLF	Large Reel	HPAE
LMK6PA07680ADLFT	LVPECL	Stand By	76.8	2.5V to 3.3V	DLF	Small Reel	HPAE
LMK6PA08000ADLFR	LVPECL	Stand By	80	2.5V to 3.3V	DLF	Large Reel	HPA5
LMK6PA08000ADLFT	LVPECL	Stand By	80	2.5V to 3.3V	DLF	Small Reel	HPA5
LMK6PA10000ADLER	LVPECL	Stand By	100	2.5V to 3.3V	DLE	Large Reel	LPA8
LMK6PA10000ADLET	LVPECL	Stand By	100	2.5V to 3.3V	DLE	Small Reel	LPA8
LMK6PA10000ADLFR	LVPECL	Stand By	100	2.5V to 3.3V	DLF	Large Reel	LPA8
LMK6PA10000ADLFT	LVPECL	Stand By	100	2.5V to 3.3V	DLF	Small Reel	LPA8
LMK6PA11428ADLER	LVPECL	Stand By	114.28	2.5V to 3.3V	DLE	Large Reel	LPA7
LMK6PA11428ADLET	LVPECL	Stand By	114.28	2.5V to 3.3V	DLE	Small Reel	LPA7
LMK6PA12500ADLER	LVPECL	Stand By	125	2.5V to 3.3V	DLE	Large Reel	LPA6
LMK6PA12500ADLET	LVPECL	Stand By	125	2.5V to 3.3V	DLE	Small Reel	LPA6
LMK6PA12500ADLFR	LVPECL	Stand By	125	2.5V to 3.3V	DLF	Large Reel	LPA6
LMK6PA12500ADLFT	LVPECL	Stand By	125	2.5V to 3.3V	DLF	Small Reel	LPA6
LMK6PA14850ADLER	LVPECL	Stand By	148.5	2.5V to 3.3V	DLE	Large Reel	LPA3
LMK6PA14850ADLET	LVPECL	Stand By	148.5	2.5V to 3.3V	DLE	Small Reel	LPA3
LMK6PA14850ADLFR	LVPECL	Stand By	148.5	2.5V to 3.3V	DLF	Large Reel	LPA3
LMK6PA14850ADLFT	LVPECL	Stand By	148.5	2.5V to 3.3V	DLF	Small Reel	LPA3
LMK6PE150000ADLER	LVPECL	Output Enable	150	2.5V to 3.3V	DLE	Large Reel	LPGQ
LMK6PE150000ADLET	LVPECL	Output Enable	150	2.5V to 3.3V	DLE	Small Reel	LPGQ
LMK6PA15625ADLER	LVPECL	Stand By	156.25	2.5V to 3.3V	DLE	Large Reel	LPA2
LMK6PA15625ADLET	LVPECL	Stand By	156.25	2.5V to 3.3V	DLE	Small Reel	LPA2
LMK6PA15625ADLFR	LVPECL	Stand By	156.25	2.5V to 3.3V	DLF	Large Reel	LPA2
LMK6PA15625ADLFT	LVPECL	Stand By	156.25	2.5V to 3.3V	DLF	Small Reel	LPA2

Table 6-1. LMK6P OPN Information (continued)

Device ^{(1) (2)}	Output Format	Pin 1 Functionality	Output Frequency (MHz)	Supply Voltage	Package Size	Packaging Method	Device Top Marking
LMK6PE156250ADLFR	LVPECL	Output Enable	156.25	2.5V to 3.3V	DLF	Large Reel	LPG2
LMK6PE156250ADLFT	LVPECL	Output Enable	156.25	2.5V to 3.3V	DLF	Small Reel	LPG2
LMK6PA20000ADLER	LVPECL	Stand By	200	2.5V to 3.3V	DLE	Large Reel	HPA1
LMK6PA20000ADLET	LVPECL	Stand By	200	2.5V to 3.3V	DLE	Small Reel	HPA1
LMK6PA20000ADLFR	LVPECL	Stand By	200	2.5V to 3.3V	DLF	Large Reel	HPA1
LMK6PA20000ADLFT	LVPECL	Stand By	200	2.5V to 3.3V	DLF	Small Reel	HPA1
LMK6PA31250ADLER	LVPECL	Stand By	312.5	2.5V to 3.3V	DLE	Large Reel	LPA0
LMK6PA31250ADLET	LVPECL	Stand By	312.5	2.5V to 3.3V	DLE	Small Reel	LPA0
LMK6PA31250BDLER	LVPECL	Stand By	312.5	1.8V	DLE	Large Reel	LP10
LMK6PA31250BDLET	LVPECL	Stand By	312.5	1.8V	DLE	Small Reel	LP10
LMK6PA31250ADLFR	LVPECL	Stand By	312.5	2.5V to 3.3V	DLF	Large Reel	LPA0
LMK6PA31250ADLFT	LVPECL	Stand By	312.5	2.5V to 3.3V	DLF	Small Reel	LPA0
LMK6PE400000ADLER	LVPECL	Output Enable	400	2.5V to 3.3V	DLE	Large Reel	LPGM
LMK6PE400000ADLET	LVPECL	Output Enable	400	2.5V to 3.3V	DLE	Small Reel	LPGM

7 Summary

This application note provides a summary of how to decode information from the LMK6x family orderable part numbers. This document also includes a list of the current OPNs in the LMK6x family. Refer to this document for detailed decoded information or for general guidance on decoding LMK6x parts.

8 References

- Texas Instruments, [LMK6x Low Jitter, High-Performance BAW Oscillator](#), data sheet

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