

# For fundamental oscillation    Low frequency deviation    KH9827ALx

## Overview

KH9827ALx is composed of an oscillation amplifier, a frequency divider and a three-state output buffer. Oscillation amplifier is supplied with voltage regulator output apart from VDD. The voltage supply separation builds low frequency variation with supply voltage VDD. ESD and latch-up test have complied with AEC-Q100 standard.

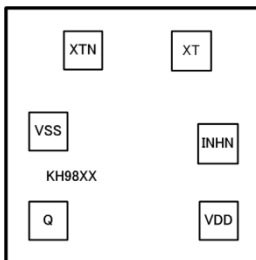
## Features

Oscillation frequency (Fundamental)	10 to 60MHz	
Operating Voltage	1.6 to 3.63V	
Operating Temperature	-40 to 85°C	
Standby Mode    INHN="L"	Q Output "Hi-z"	
	-40 to 85°C	
INHN Input Voltage Level	C-MOS	
Q Output Duty Level	C-MOS	
Q Output Current	8mA (VDD=2.7V)	
Q Output Load (Drive Capacity)	1.6V ≤ VDD ≤ 3.63V	15pF
	2.25V ≤ VDD ≤ 3.63	30pF (≤ 60MHz)
		15pF (≤ 100MHz)

## Device Selection Table

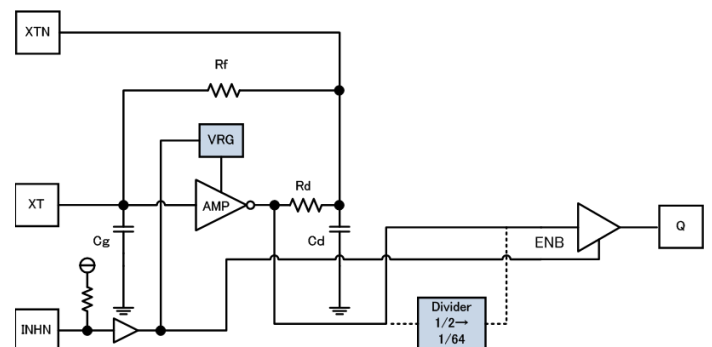
Version	Output frequency
KH9827AL1	fo
KH9827AL2	fo/2
KH9827AL3	fo/4
KH9827AL4	fo/8
KH9827AL5	fo/16
KH9827AL6	fo/32
KH9827AL7	fo/64

## PAD Locations



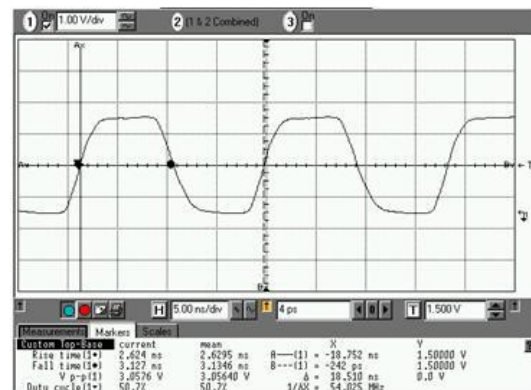
Chip Size	0.74×0.67mm
PAD Size	90×90um
Chip Thickness	130±20um
Chip Base	VSS Level

## Block Diagram



## Output waveform

KH9827AL1 54MHz CL=15pF VDD=3.0V



## Reliability

Test Model		Performance Values
ESD	HBM	>4000V
	MM	>400V
	FI-CDM	>1000V
Latch-up	Current Test	>200mA
	Voltage Test	>5.4V

Notes: The document is a brief data sheet of the product.

Please contact with us by email for detailed data sheet, when needed.