LMK04832NKDT

Clock Generator 0.001MHz to 3.25GHz-IN 3250MHz-OUT 64-Pin WQFN EP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	QFN64
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The LMK04832 is an ultra-high performance clock conditioner withJEDEC JESD204B support and is also pin compatible with the LMK0482x family of devices.

The 14 clock outputs from PLL2 can be configured to drive seven JESD204B converters orother logic devices using device and SYSREF clocks. SYSREF can be provided using both DC and ACcoupling. Not limited to JESD204B applications, each of the 14 outputs can be individuallyconfigured as high performance outputs for traditional clocking systems.

The LMK04832 can be configured for operation in dual PLL, single PLL, or clockdistribution modes with or without SYSREF generation or reclocking. PLL2 may operate with eitherinternal or external VCO.

The high performance combined with features like the ability to trade off between powerand performance, dual VCOs, dynamic digital delay, and holdover make the LMK04832 ideal forproviding flexible high performance clocking trees.

Key Features

Maximum Clock Output Frequency: 3255 MHz

Multi-Mode: DualPLL, Single PLL, and Clock Distribution

Ultra-Low Noise, at 2500MHz:
54 fs RMS Jitter (12 kHz to 20 MHz)

64 fs RMS Jitter (100 Hz to 20 MHz)

–157.6 dBc/Hz Noise Floor

Ultra-Low Noise, at 3200 MHz:
61fs RMS Jitter (12 kHz to 20 MHz)

67 fs RMS Jitter (100 Hz to 100MHz)

–156.5 dBc/Hz Noise Floor

PLL2
PLL FOM of –230 dBc/Hz

PLL 1/f of –128dBc/Hz

Phase Detector Rate up to 320 MHz

Two Integrated VCOs: 2440 to 2580 MHzand 2945 to 3255 MHz

Up to 14Differential Device Clocks
CML, LVPECL, LCPECL, HSDS, LVDS, and 2xLVCMOS ProgrammableOutputs

Up to 1 Buffered VCXO/XOOutput
LVPECL, LVDS, 2xLVCMOSProgrammable

1-1023 CLKout Divider

1-8191 SYSREF Divider

25-ps Step Analog Delay for SYSREFClocks

Digital Delay and Dynamic Digital Delay for Device Clock andSYSREF

Holdover Mode With PLL1

0-Delay with PLL1 orPLL2

Supports 105°C PCB Temperature(Measured at Thermal Pad)

Recommended For You

LMK00334RTVR	LMC555CM	LM555CM
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
WQFN32	SOP8	SOP8

LMC555CMX/NOPB

Texas Instruments, Inc

SOP8

LM555CN

Texas Instruments, Inc

DIP8

LM555J/883

Texas Instruments, Inc

CDIP8

LMC555CMMX

Texas Instruments, Inc

MSOP8

LM555CN/NOPB

Texas Instruments, Inc

DIP8

LMC555CMMX/NOPB

Texas Instruments, Inc

VSSOP8

LMK00101SQE/NOPB

Texas Instruments, Inc

WQFN32

LM555H/883

Texas Instruments, Inc

CAN

LMK1C1102DQFR

Texas Instruments, Inc

WSON-8

LMC555CN

Texas Instruments, Inc

DIP

LMC555IMX/NOPB

Texas Instruments, Inc

SOP8

LMC555CTP

Texas Instruments, Inc

DSBGA