

#### Zero Delay Buffer 5-Out Single-Ended 8-Pin TSSOP T/R

Manufacturer:	Texas Instruments, Inc	
Package/Case:	TSSOP8	CDCVF2505PWR Image
Product Type:	Clock & Timer ICs	Inquiry
RoHS:	RoHS Compliant/Lead free RoHS	
Lifecycle:	Active	

#### **General Description**

The CDCVF2505 is a high-performance, low-skew, low-jitter, phase-lock loop (PLL) clock driver. This device uses a PLL to precisely align the output clocks (1Y[0-3] and CLKOUT) to the input clock signal (CLKIN) in both frequency and phase. The CDCVF2505 operates at 3.3 V and also provides integrated series-damping resistors that make it ideal for driving point-to-point loads.

One bank of five outputs provides low-skew, low-jitter copies of CLKIN. Output duty cycles are adjusted to 50 percent, independent of duty cycle at CLKIN. The device automatically goes into power-down mode when no input signal is applied to CLKIN.

The loop filter for the PLLs is included on-chip. This minimizes the component count, space, and cost.

The CDCVF2505 is characterized for operation from -40°C to 85°C.

Because it is based on the PLL circuitry, the CDCVF2505 requires a stabilization time to achieve phase lock of the feedback signal to the reference signal. This stabilization is required following power up and application of a fixed-frequency, fixed-phase signal at CLKIN, and following any changes to the PLL reference.

#### **Key Features**

Phase-Lock Loop Clock Driver for Synchronous DRAM and General-Purpose Applications

Spread Spectrum Clock Compatible

Operating Frequency: 24 MHz to 200 MHz

Low Jitter (Cycle-to-Cycle): < |150 ps| (Over 66 MHz to 200 MHz Range)

Distributes One Clock Input to One Bank of Five Outputs (CLKOUT Used to Tune the Input-Output Delay)

Three-States Outputs When There Is No Input Clock

Operates From Single 3.3-V Supply

Available in 8-Pin TSSOP and 8-Pin SOIC Packages

Consumes Less Than 100 mA (Typical) in Power-Down Mode

Internal Feedback Loop Is Used to Synchronize the Outputs to the Input Clock

25-Ω On-Chip Series Damping Resistors

Integrated RC PLL Loop Filter Eliminates the Need for External Components

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#### **Recommended For You**

CD4541BE Texas Instruments, Inc DIP14

CDCV304PWR Texas Instruments, Inc TSSOP8

#### CDCE62002RHBT

Texas Instruments, Inc VQFN-32

CDCDB803RSLR Texas Instruments, Inc

VQFN-48

CDCLVC1102PW Texas Instruments, Inc TSSOP8

## CDCV304PW Texas Instruments, Inc TSSOP8

CDCE937PW Texas Instruments, Inc TSSOP20

CDCLVP110VF Texas Instruments, Inc QFP32

CDCP1803RGET Texas Instruments, Inc VQFN-24

CDCLVD1212RHAR Texas Instruments, Inc VQFN40 CDCV857ADGGR

Texas Instruments, Inc TSSOP48

### CDCVF2310PWR Texas Instruments, Inc

TSSOP24

CDCLVD110ARHBT

Texas Instruments, Inc VQFN-32

### CDCEL925PW

Texas Instruments, Inc TSSOP16

CDCVF2310PW Texas Instruments, Inc

TSSOP

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