

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Texas Instruments](#)
[CDCVF310PW](#)

For any questions, you can email us directly:

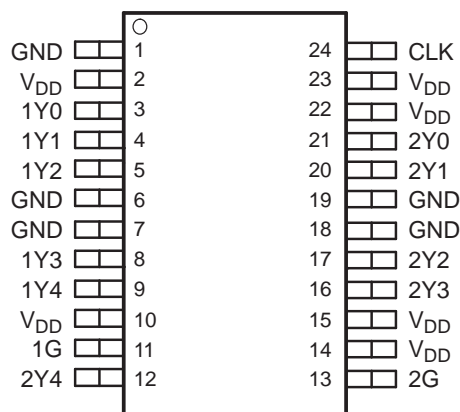
sales@integrated-circuit.com

2.5-V TO 3.3-V HIGH-PERFORMANCE CLOCK BUFFER

FEATURES

- High-Performance 1:10 Clock Driver
- Pin-to-Pin Skew < 100 ps at V_{DD} 3.3 V
- V_{DD} Range = 2.3 V to 3.6 V
- Input Clock Up To 200 MHz (See Figure 7)
- Operating Temperature Range -40°C to 85°C
- Output Enable Glitch Suppression
- Distributes One Clock Input to Two Banks of Five Outputs
- Packaged in 24-Pin TSSOP
- Pin-to-Pin Compatible to the CDCVF2310, Except the $R = 22\text{-}\Omega$ Series Damping Resistors at Y_n

PW PACKAGE
(TOP VIEW)



APPLICATIONS

- General-Purpose Applications

DESCRIPTION

The CDCVF310 is a high-performance, low-skew clock buffer that operates up to 200 MHz. Two banks of five outputs each provide low-skew copies of CLK. After power up, the default state of the outputs is low regardless of the state of the control pins. For normal operation, the outputs of bank 1Y[0:4] or 2Y[0:4] can be placed in a low state when the control pins (1G or 2G, respectively) are held low and a negative clock edge is detected on the CLK input. The outputs of bank 1Y[0:4] or 2Y[0:4] can be switched into the buffer mode when the control pins (1G and 2G) are held high and a negative clock edge is detected on the CLK input. The device operates in a 2.5-V and 3.3-V environment. The built-in output enable glitch suppression ensures a synchronized output enable sequence to distribute full period clock signals.

The CDCVF310 is characterized for operation from -40°C to 85°C .



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

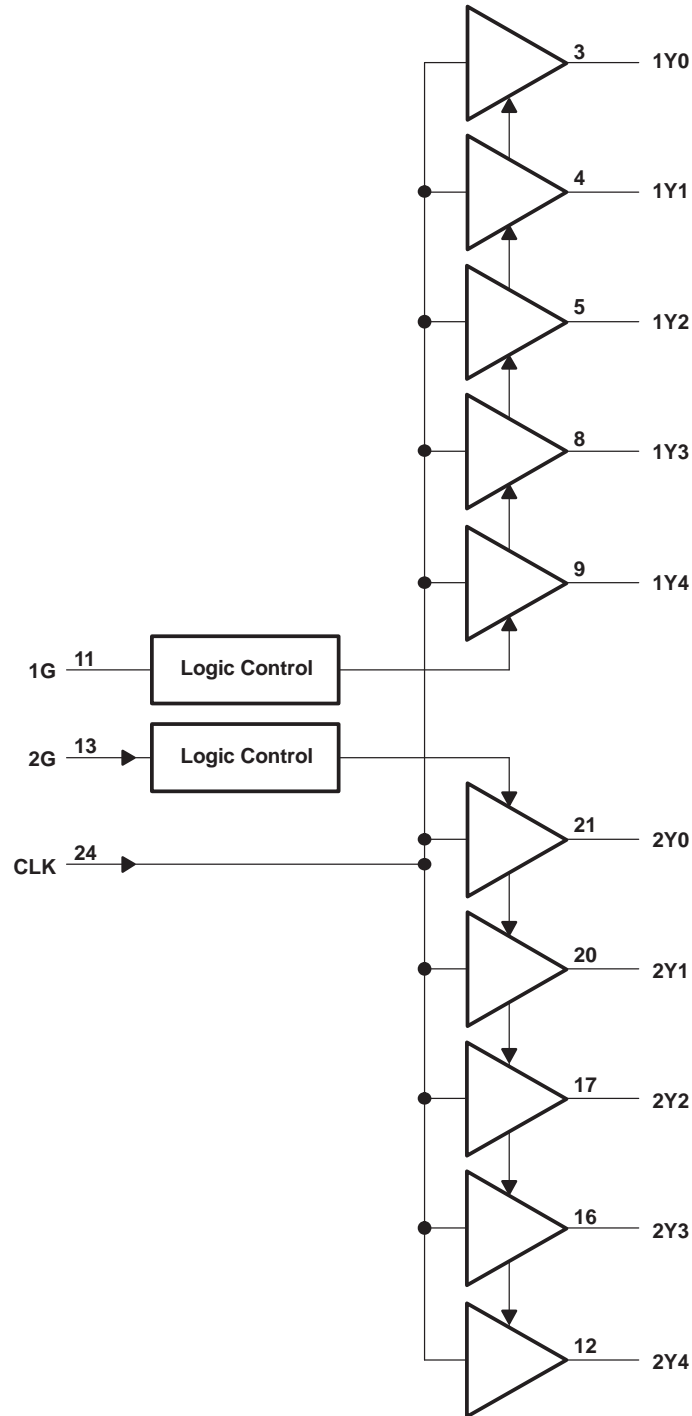
CDCVF310

SCAS771B–AUGUST 2004–REVISED JANUARY 2008



These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

FUNCTIONAL BLOCK DIAGRAM



FUNCTION TABLE

INPUT			OUTPUT	
1G	2G	CLK	1Y[0:4]	2Y[0:4]
L	L	↓	L	L
H	L	↓	CLK ⁽¹⁾	L
L	H	↓	L	CLK ⁽¹⁾
H	H	↓	CLK ⁽¹⁾	CLK ⁽¹⁾

(1) After detecting one negative edge on the CLK input, the output follows the input CLK if the control pin is held high.

Terminal Functions

TERMINAL		I/O	DESCRIPTION
NAME	NO.		
1G	11	I	Output enable control for 1Y[0:4] outputs. This output enable is active-high, meaning the 1Y[0:4] clock outputs follow the input clock (CLK) if this pin is logic high.
2G	13	I	Output enable control for 2Y[0:4] outputs. This output enable is active-high, meaning the 2Y[0:4] clock outputs follow the input clock (CLK) if this pin is logic high.
1Y[0:4]	3, 4, 5, 8, 9	O	Buffered output clocks
2Y[0:4]	21, 20, 17, 16, 12	O	Buffered output clocks
CLK	24	I	Input reference frequency
GND	1, 6, 7, 18, 19		Ground
V _{DD}	2, 10, 14, 15, 22, 23		DC power supply, 2.3 V – 3.6 V

CDCVF310

SCAS771B–AUGUST 2004–REVISED JANUARY 2008

DETAILED DESCRIPTION

Output Enable Glitch Suppression Circuit

The purpose of the glitch suppression circuitry is to ensure the output enable sequence is synchronized with the clock input such that the output buffer is enabled or disabled on the next full period of the input clock (negative edge triggered by the input clock) (see Figure 1).

The G input must fulfill the timing requirements (t_{su} , t_h) according to the *Switching Characteristics* table for predictable operation.

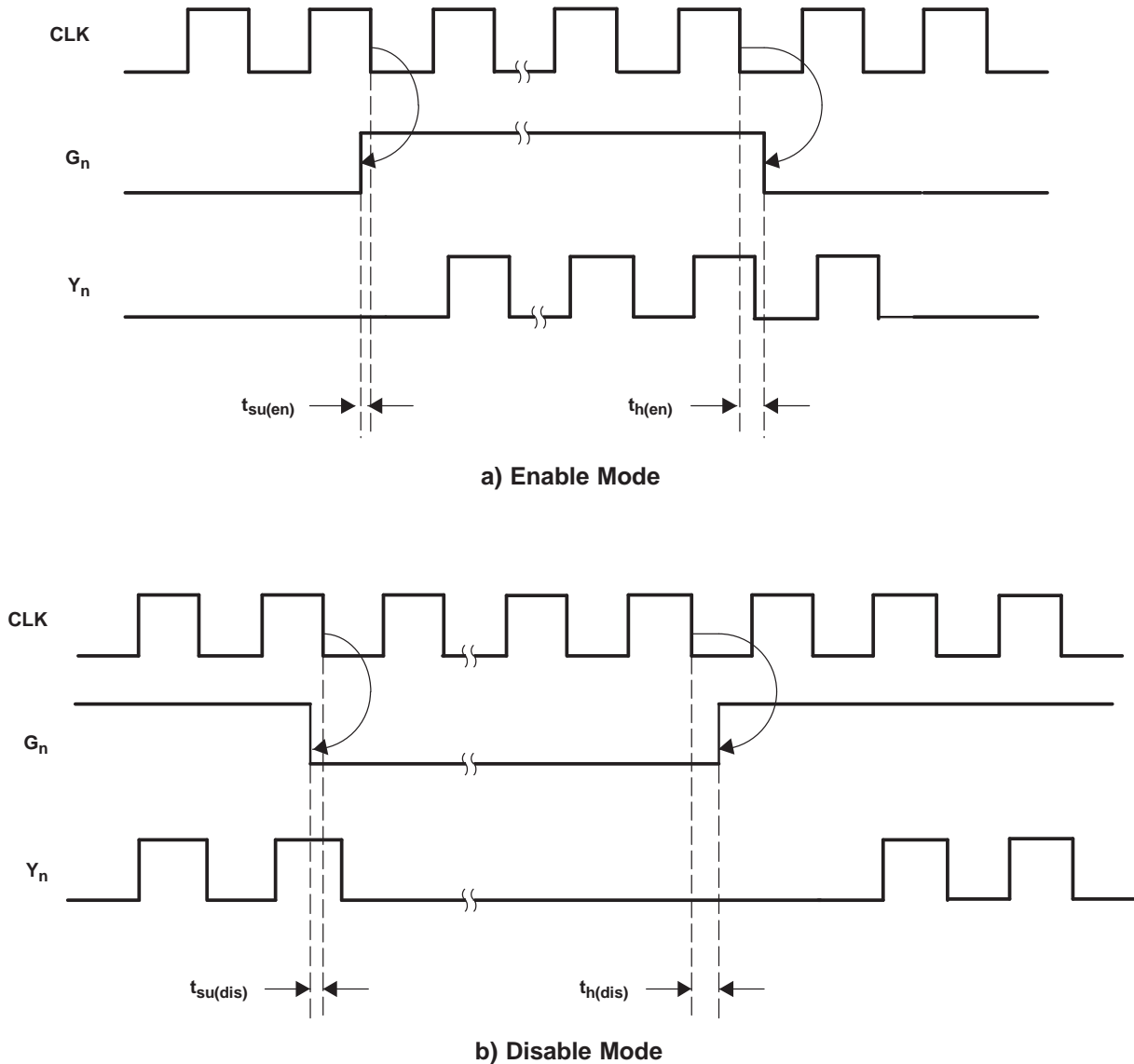


Figure 1. Enable and Disable Mode Relative to CLK_↓

ABSOLUTE MAXIMUM RATINGS

over operating free-air temperature range (unless otherwise noted) ⁽¹⁾

Supply voltage range, V_{DD}	–0.5 V to 4.6 V
Input voltage range, V_I ⁽²⁾⁽³⁾	–0.5 V to $V_{DD} + 0.5$ V
Output voltage range, V_O ⁽²⁾⁽³⁾	–0.5 V to $V_{DD} + 0.5$ V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{DD}$)	±50 mA
Output clamp current, I_{OK} ($V_O < 0$ or $V_O > V_{DD}$)	±50 mA
Continuous total output current, I_O ($V_O = 0$ to V_{DD})	±50 mA
Package thermal impedance, θ_{JA} ⁽⁴⁾ : PW package	88°C/W, high K
	120°C/W, low K
Storage temperature range T_{stg}	–65°C to 150°C

- (1) Stresses beyond those listed under “absolute maximum ratings” may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under “recommended operating conditions” is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.
- (2) The input and output negative voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
- (3) This value is limited to 4.6 V maximum.
- (4) The package thermal impedance is calculated in accordance with JESD 51.

RECOMMENDED OPERATING CONDITIONS ⁽¹⁾

		MIN	NOM	MAX	UNIT
Supply voltage, V_{DD}		2.3	2.5		V
			3.3	3.6	
Low-level input voltage, V_{IL}	$V_{DD} = 3$ V to 3.6 V			0.8	V
	$V_{DD} = 2.3$ V to 2.7 V			0.7	
High-level input voltage, V_{IH}	$V_{DD} = 3$ V to 3.6 V	2			V
	$V_{DD} = 2.3$ V to 2.7 V	1.7			
Input voltage, V_I		0		V_{DD}	V
High-level output current, I_{OH}	$V_{DD} = 3$ V to 3.6 V			–12	mA
	$V_{DD} = 2.3$ V to 2.7 V			–6	
Low-level output current, I_{OL}	$V_{DD} = 3$ V to 3.6 V			12	mA
	$V_{DD} = 2.3$ V to 2.7 V			6	
Operating free-air temperature, T_A		–40		85	°C

- (1) Unused inputs must be held high or low to prevent them from floating.

TIMING REQUIREMENTS

over operating free-air temperature range (unless otherwise noted)

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT
f_{clk}	Clock frequency	$V_{DD} = 2.3$ V to 3.6 V, See Figure 7	0		200	MHz

CDCVF310

SCAS771B–AUGUST 2004–REVISED JANUARY 2008

ELECTRICAL CHARACTERISTICS

 over recommended operating free-air temperature range (unless otherwise noted)⁽¹⁾

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
V _{IK} Input voltage	V _{DD} = 3 V, I _I = -18 mA			-1.2	V
I _I Input current	V _I = 0 V or V _{DD}			±5	μA
I _{DD} ⁽²⁾ Static device current	CLK = 0 V or V _{DD} = 3.6 V, I _O = 0 mA			80	μA
C _I Input capacitance	V _{DD} = 2.3 V to 3.6 V, V _I = 0 V or V _{DD}		2.5		pF
C _O Output capacitance	V _{DD} = 2.3 V to 3.6 V, V _I = 0 V or V _{DD}		2.6		pF
C _{PD} Power dissipation ⁽³⁾	V _{DD} = 2.3 V to 3.6 V, V _I = 0 V or V _{DD}			32	pF

 (1) All typical values are with respect to nominal V_{DD}.

 (2) For dynamic I_{DD} over Frequency see Figure 6.

(3) This is the formula for the power dissipation calculation.

$$P_{tot} = P_{stat} + P_{Dyn} + P_{Load}[W]$$

$$P_{stat} = V_{DD} \times I_{DD} [W]$$

$$P_{Dyn} = C_{PD} \times V_{DD} \times V_{DD} \times f [W]$$

$$P_{Load} = C_{Load} \times V_{DD} \times V_{DD} \times f \times n [W]$$

n = Number of switching output pins

V_{DD} = 3.3 V ±0.3 V

PARAMETER	TEST CONDITIONS	MIN	TYP ⁽¹⁾	MAX	UNIT
V _{OH} High-level output voltage	V _{DD} = min to max, I _{OH} = -100 μA	V _{DD} - 0.2			V
	V _{DD} = 3 V	I _{OH} = -12 mA	2.1		
		I _{OH} = -6 mA	2.4		
V _{OL} Low-level output voltage	V _{DD} = min to max, I _{OL} = 100 μA			0.2	V
	V _{DD} = 3 V	I _{OL} = 12 mA		0.4	
		I _{OL} = 6 mA			
I _{OH} High-level output current	V _{DD} = 3 V, V _O = 1 V	-37			mA
	V _{DD} = 3.3 V, V _O = 1.65 V		-57		
	V _{DD} = 3.6 V, V _O = 3.135 V			-38	
I _{OL} Low-level output current	V _{DD} = 3 V, V _O = 1.95 V	37			mA
	V _{DD} = 3.3 V, V _O = 1.65 V		57		
	V _{DD} = 3.6 V, V _O = 0.4 V			38	

 (1) All typical values are with respect to nominal V_{DD}.

V_{DD} = 2.5 V ±0.2 V

PARAMETER	TEST CONDITIONS	MIN	TYP ⁽¹⁾	MAX	UNIT
V _{OH} High-level output voltage	V _{DD} = min to max, I _{OH} = -100 A	V _{DD} - 0.2			V
	V _{DD} = 2.3 V, I _{OH} = -6 mA	1.8			
V _{OL} Low-level output voltage	V _{DD} = min to max, I _{OL} = 100 A			0.2	V
	V _{DD} = 2.3 V, I _{OL} = 6 mA			0.4	
I _{OH} High-level output current	V _{DD} = 2.3 V, V _O = 1 V	-20			mA
	V _{DD} = 2.5 V, V _O = 1.25 V		-36		
	V _{DD} = 2.7 V, V _O = 2.375 V			-25	
I _{OL} Low-level output current	V _{DD} = 2.3 V, V _O = 1.2 V	20			mA
	V _{DD} = 2.5 V, V _O = 1.25 V		36		
	V _{DD} = 2.7 V, V _O = 0.3 V			25	

 (1) All typical values are with respect to nominal V_{DD}.

JITTER CHARACTERISTICS

Characterized using CDCVF310 Performance EVM when $V_{DD}=3.3\text{ V}$. Outputs not under test are terminated to $50\ \Omega$.

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT
t_{jitter}	Additive phase jitter from input to output 1Y0	12 kHz to 5 MHz, $f_{\text{out}} = 30.72\text{ MHz}$		47		fs rms
		12 kHz to 20 MHz, $f_{\text{out}} = 125\text{ MHz}$		40		

SWITCHING CHARACTERISTICS

over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER		TEST CONDITIONS	MIN	TYP ⁽¹⁾	MAX	UNIT
$V_{DD} = 3.3\text{ V} \pm 0.3\text{ V}$ (see Figure 2)						
t_{PLH}	CLK to Yn	$f = 0\text{ MHz to }200\text{ MHz}$	1		2.8	ns
t_{PHL}			1		2.8	
$t_{\text{sk(o)}}$	Output skew (Ym to Yn) ⁽²⁾ (see Figure 4)			100	150	ps
$t_{\text{sk(p)}}$	Pulse skew (see Figure 5)				250	ps
$t_{\text{sk(pp)}}$	Part-to-part skew				350	ps
t_r	Rise time	$V_O = 0.4\text{ V to }2\text{ V}$	1.3		2.7	V/ns
t_f	Fall time	$V_O = 2\text{ V to }0.4\text{ V}$	1.3		2.7	V/ns
$t_{\text{su(en)}}$	Enable setup time, G_high before CLK ↓		0.1			ns
$t_{\text{su(dis)}}$	Disable setup time, G_low before CLK ↓		0.1			ns
$t_{\text{h(en)}}$	Enable hold time, G_high after CLK ↓		0.4			ns
$t_{\text{h(dis)}}$	Disable hold time, G_low after CLK ↓		0.4			ns
$V_{DD} = 2.5\text{ V} \pm 0.2\text{ V}$ (see Figure 2)						
t_{PLH}	CLK to Yn	$f = 0\text{ MHz to }200\text{ MHz}$	1.3		4	ns
t_{PHL}			1.3		4	
$t_{\text{sk(o)}}$	Output skew (Ym to Yn) ⁽²⁾ (see Figure 4)			150	230	ps
$t_{\text{sk(p)}}$	Pulse skew (see Figure 5)				280	ps
$t_{\text{sk(pp)}}$	Part-to-part skew				400	ps
t_r	Rise time	$V_O = 0.4\text{ V to }1.7\text{ V}$	0.5		1.6	V/ns
t_f	Fall time	$V_O = 1.7\text{ V to }0.4\text{ V}$	0.5		1.6	V/ns
$t_{\text{su(en)}}$	Enable setup time, G_high before CLK ↓		0.1			ns
$t_{\text{su(dis)}}$	Disable setup time, G_low before CLK ↓		0.1			ns
$t_{\text{h(en)}}$	Enable hold time, G_high after CLK ↓		0.4			ns
$t_{\text{h(dis)}}$	Disable hold time, G_low after CLK ↓		0.4			ns

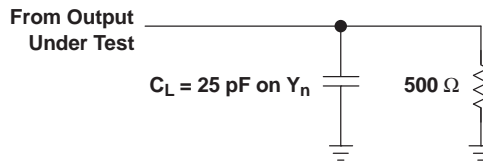
(1) All typical values are with respect to nominal V_{DD} .

(2) The $t_{\text{sk(o)}}$ specification is only valid for equal loading of all outputs.

CDCVF310

SCAS771B–AUGUST 2004–REVISED JANUARY 2008

PARAMETER MEASUREMENT INFORMATION



- A. C_L includes probe and jig capacitance.
- B. All input pulses are supplied by generators having the following characteristics: Clock Frequency \leq 200 MHz, $Z_O = 50 \Omega$, $t_r < 1.2$ ns, $t_f < 1.2$ ns.

Figure 2. Test Load Circuit

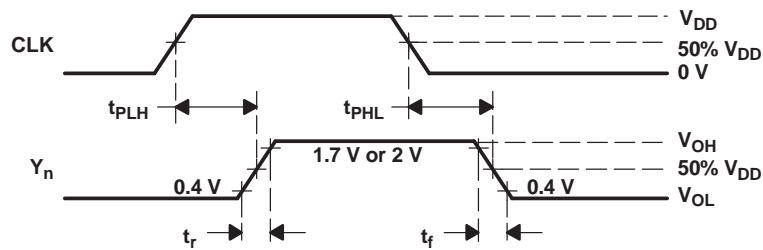


Figure 3. Voltage Waveforms Propagation Delay Times

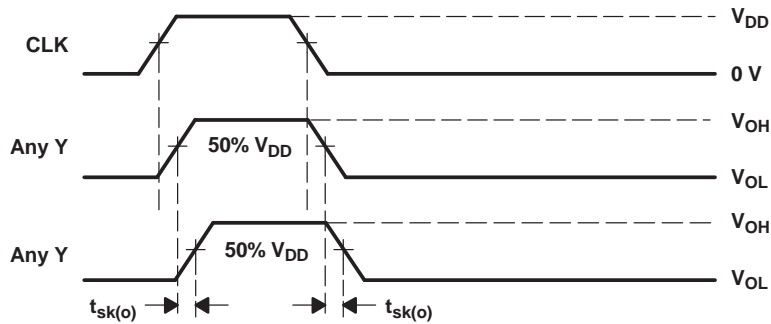
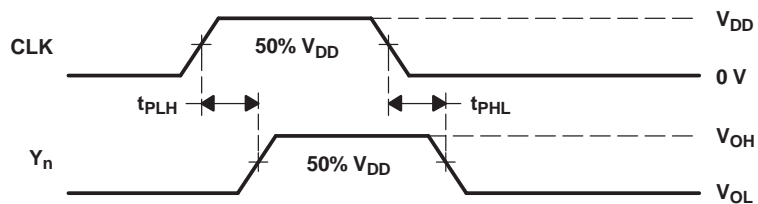


Figure 4. Output Skew



NOTE: $t_{sk(p)} = |t_{PLH} - t_{PHL}|$

Figure 5. Pulse Skew

**DYNAMIC SUPPLY CURRENT
vs
CLOCK FREQUENCY**

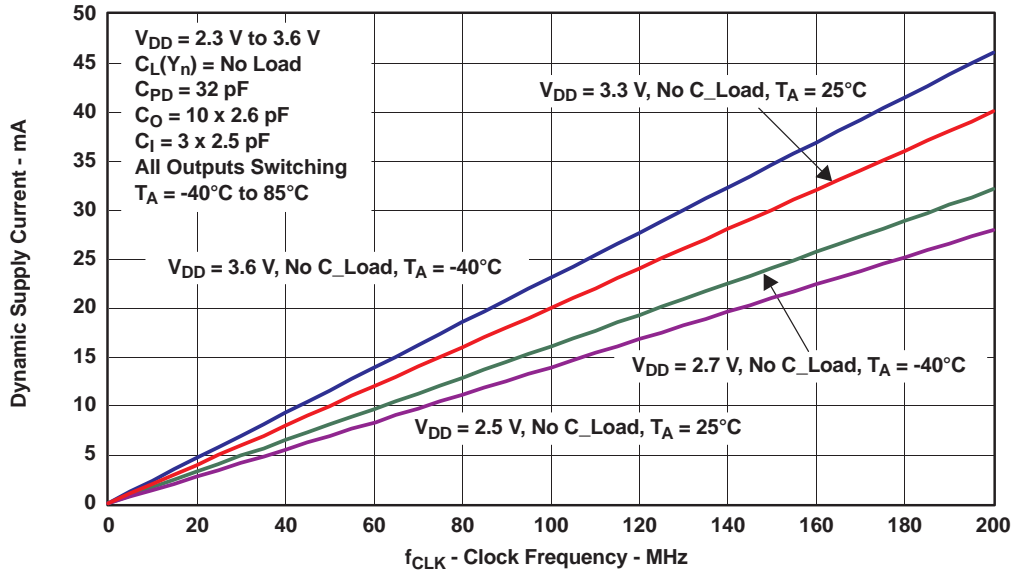


Figure 6.

**C_LOAD(max) PER OUTPUT PIN Yn
vs
CLOCK FREQUENCY**

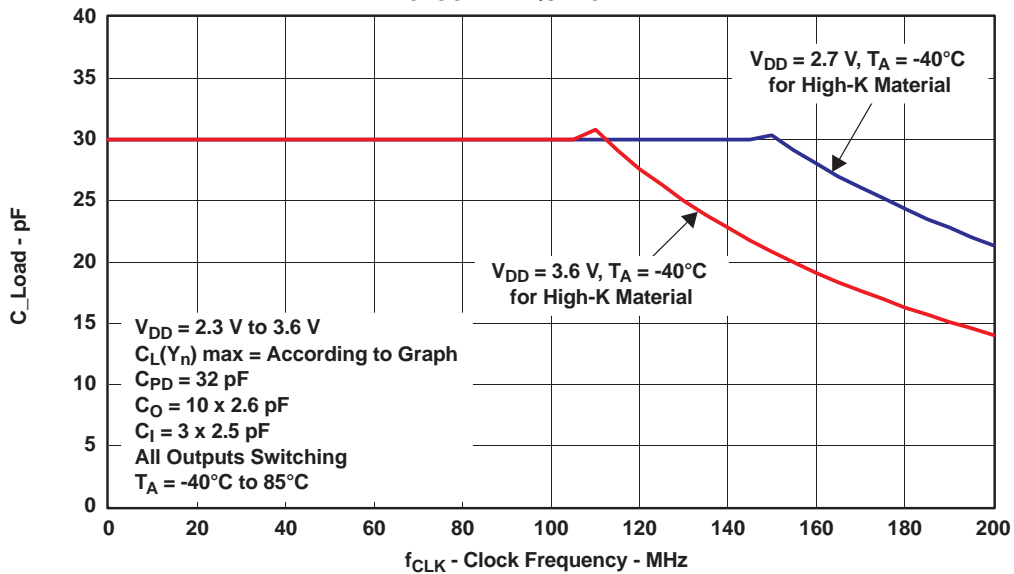


Figure 7.

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp (3)	Op Temp (°C)	Top-Side Markings (4)	Samples
CDCVF310PW	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CKV310	Samples
CDCVF310PWG4	ACTIVE	TSSOP	PW	24	60	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CKV310	Samples
CDCVF310PWR	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CKV310	Samples
CDCVF310PWRG4	ACTIVE	TSSOP	PW	24	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CKV310	Samples

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBsolete: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check <http://www.ti.com/productcontent> for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) Multiple Top-Side Markings will be inside parentheses. Only one Top-Side Marking contained in parentheses and separated by a "-" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Top-Side Marking for that device.

Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.



Distributor of Texas Instruments: Excellent Integrated System Limited

Datasheet of CDCVF310PW - IC CLK BUF 1:10 200MHZ 24TSSOP

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

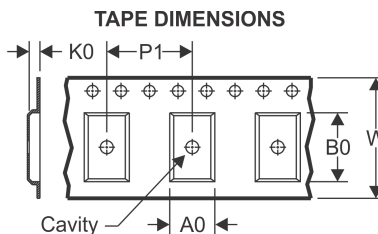
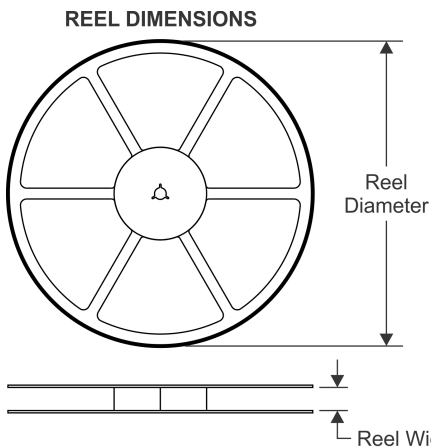
PACKAGE OPTION ADDENDUM



www.ti.com

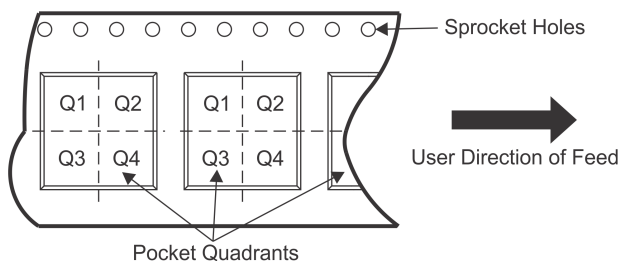
11-Apr-2013

TAPE AND REEL INFORMATION



A0	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

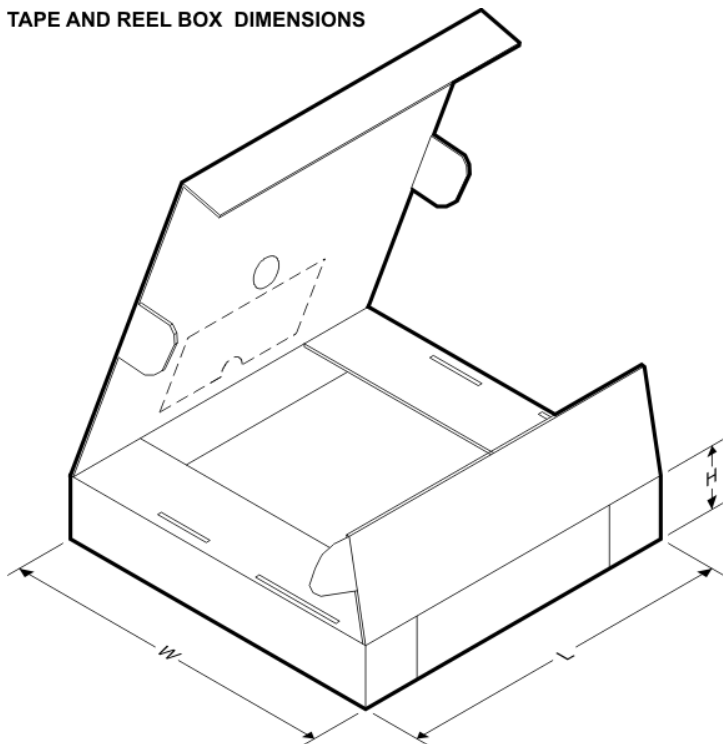
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CDCVF310PWR	TSSOP	PW	24	2000	330.0	16.4	6.95	8.3	1.6	8.0	16.0	Q1

TAPE AND REEL BOX DIMENSIONS



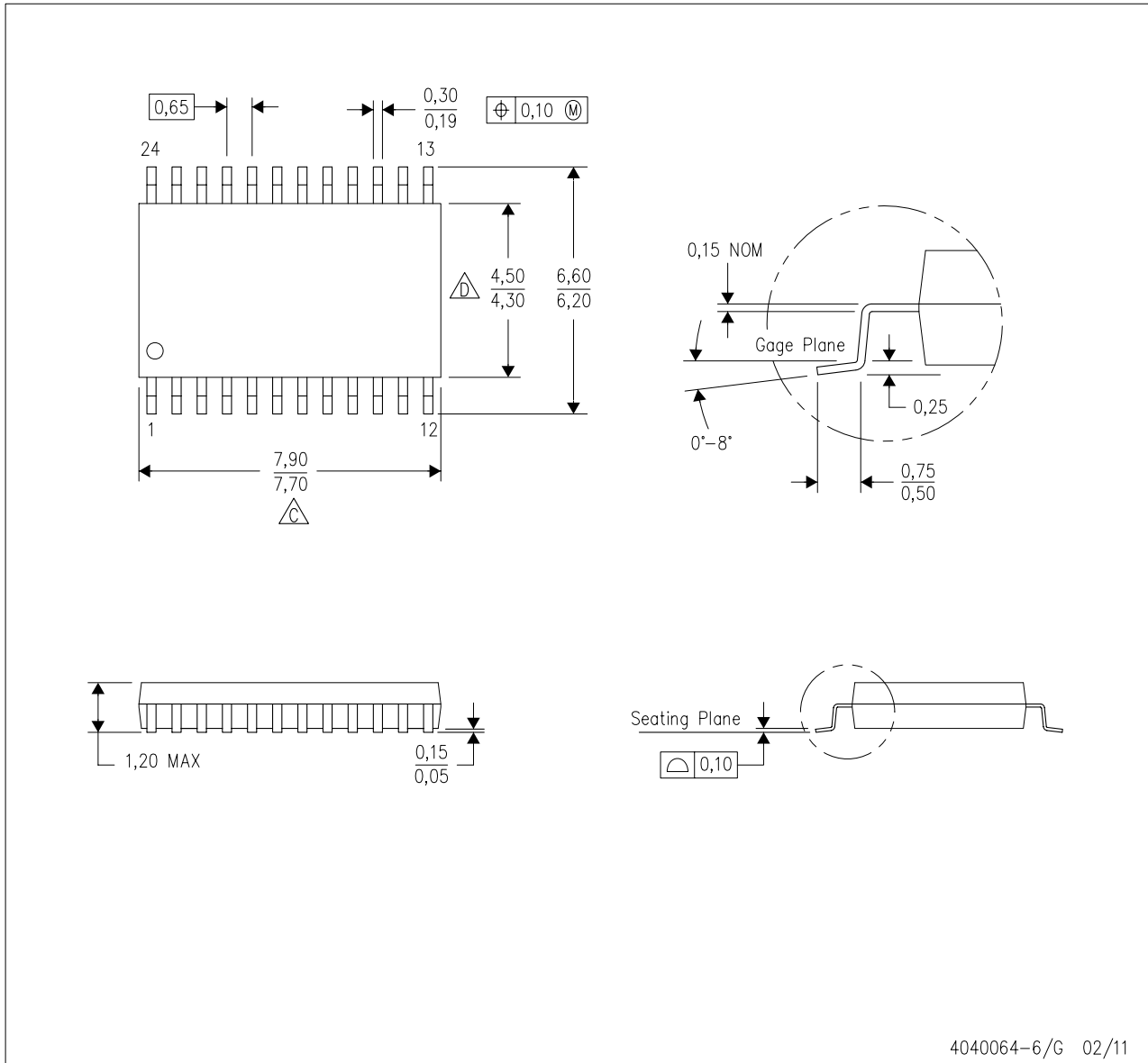
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CDCVF310PWR	TSSOP	PW	24	2000	367.0	367.0	38.0

MECHANICAL DATA

PW (R-PDSO-G24)

PLASTIC SMALL OUTLINE

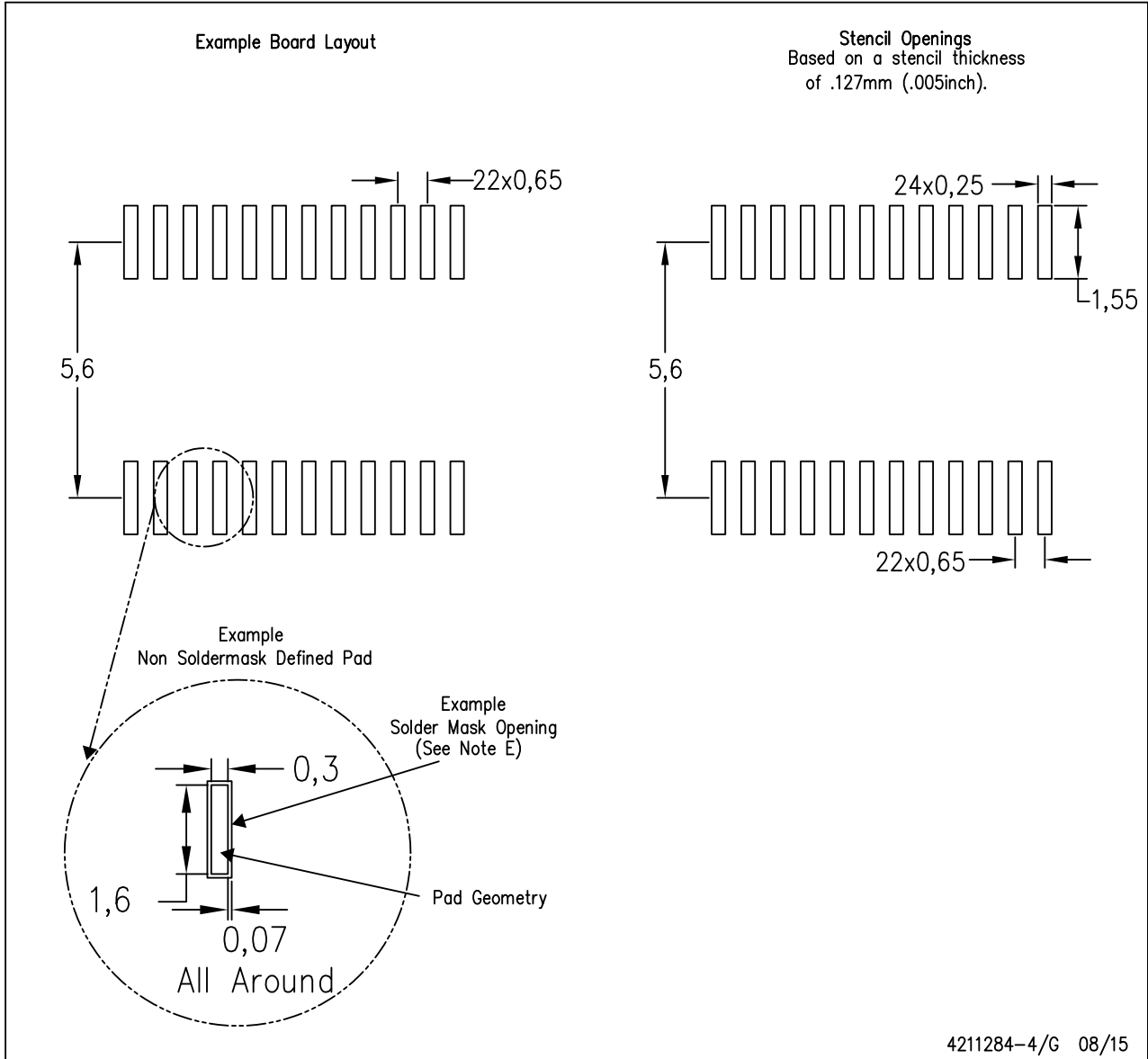


- NOTES:
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
 - B. This drawing is subject to change without notice.
 - C. Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
 - D. Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
 - E. Falls within JEDEC MO-153

LAND PATTERN DATA

PW (R-PDSO-G24)

PLASTIC SMALL OUTLINE



- NOTES:
- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Publication IPC-7351 is recommended for alternate design.
 - D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 - E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as “components”) are sold subject to TI’s terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI’s terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers’ products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers’ products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI’s goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or “enhanced plastic” are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have **not** been so designated is solely at the Buyer’s risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

Products

Audio	www.ti.com/audio
Amplifiers	amplifier.ti.com
Data Converters	dataconverter.ti.com
DLP® Products	www.dlp.com
DSP	dsp.ti.com
Clocks and Timers	www.ti.com/clocks
Interface	interface.ti.com
Logic	logic.ti.com
Power Mgmt	power.ti.com
Microcontrollers	microcontroller.ti.com
RFID	www.ti-rfid.com
OMAP Applications Processors	www.ti.com/omap
Wireless Connectivity	www.ti.com/wirelessconnectivity

Applications

Automotive and Transportation	www.ti.com/automotive
Communications and Telecom	www.ti.com/communications
Computers and Peripherals	www.ti.com/computers
Consumer Electronics	www.ti.com/consumer-apps
Energy and Lighting	www.ti.com/energy
Industrial	www.ti.com/industrial
Medical	www.ti.com/medical
Security	www.ti.com/security
Space, Avionics and Defense	www.ti.com/space-avionics-defense
Video and Imaging	www.ti.com/video

TI E2E Community

e2e.ti.com