

CY54FCT480T, CY74FCT480T DUAL 8-BIT PARITY GENERATORS/CHECKERS

SCCS025B – MAY 1993 – REVISED OCTOBER 2001

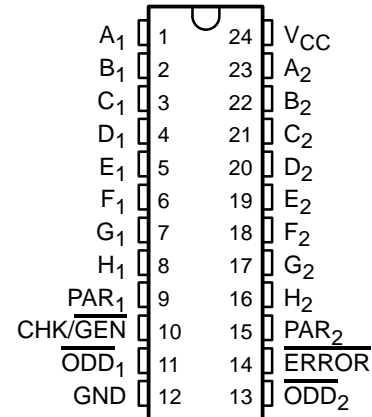
- Function, Pinout, and Drive Compatible With FCT and F Logic
- Reduced V_{OH} (Typically = 3.3 V) Versions of Equivalent FCT Functions
- Edge-Rate Control Circuitry for Significantly Improved Noise Characteristics
- I_{off} Supports Partial-Power-Down Mode Operation
- Matched Rise and Fall Times
- Fully Compatible With TTL Input and Output Logic Levels
- Two 8-Bit Parity Generators/Checkers
- Open-Drain Active-Low Parity-Error Output
- Expandable for Larger Word Widths
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)
- CY54FCT480T
 - 32-mA Output Sink Current
 - 12-mA Output Source Current
- CY74FCT480T
 - 64-mA Output Sink Current
 - 32-mA Output Source Current

description

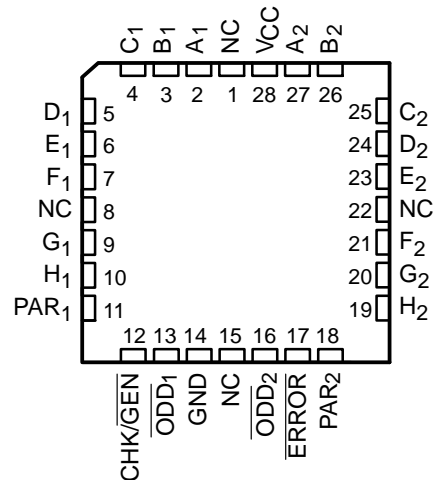
The 'FCT480T devices are high-speed, dual, 8-bit parity generators/checkers. Each parity generator/checker accepts eight data bits and one parity bit as inputs, and generates a sum and parity-error (\overline{ERROR}) output. These devices can be used in odd-parity systems. \overline{ERROR} is an open-drain output designed for easy expansion of the word width by a wired-OR connection of several 'FCT480T devices. Because no additional logic is needed, the parity-generation or parity-checking times remain the same as for an individual 'FCT480T device.

These devices are fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

CY74FCT480T . . . P, Q, OR SO PACKAGE
(TOP VIEW)



CY54FCT480T . . . L PACKAGE
(TOP VIEW)



NC – No internal connection



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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

**TEXAS
INSTRUMENTS**

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On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

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ORDERING INFORMATION

T _A	PACKAGE†		SPEED (ns)	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	DIP – P	Tube	6.1	CY74FCT480BTPC	CY74FCT480BTPC
	QSOP – Q	Tape and reel	6.1	CY74FCT480BTQCT	FCT480B
	SOIC – SO	Tube	6.1	CY74FCT480BTSOC	FCT480B
		Tape and reel	6.1	CY74FCT480BTSOCT	
	DIP – P	Tube	7.5	CY74FCT480ATPC	CY74FCT480ATPC
	QSOP – Q	Tape and reel	7.5	CY74FCT480ATQCT	FCT480A
–55°C to 125°C	LCC – L	Tube	7	CY54FCT480BTLMB	

† Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE

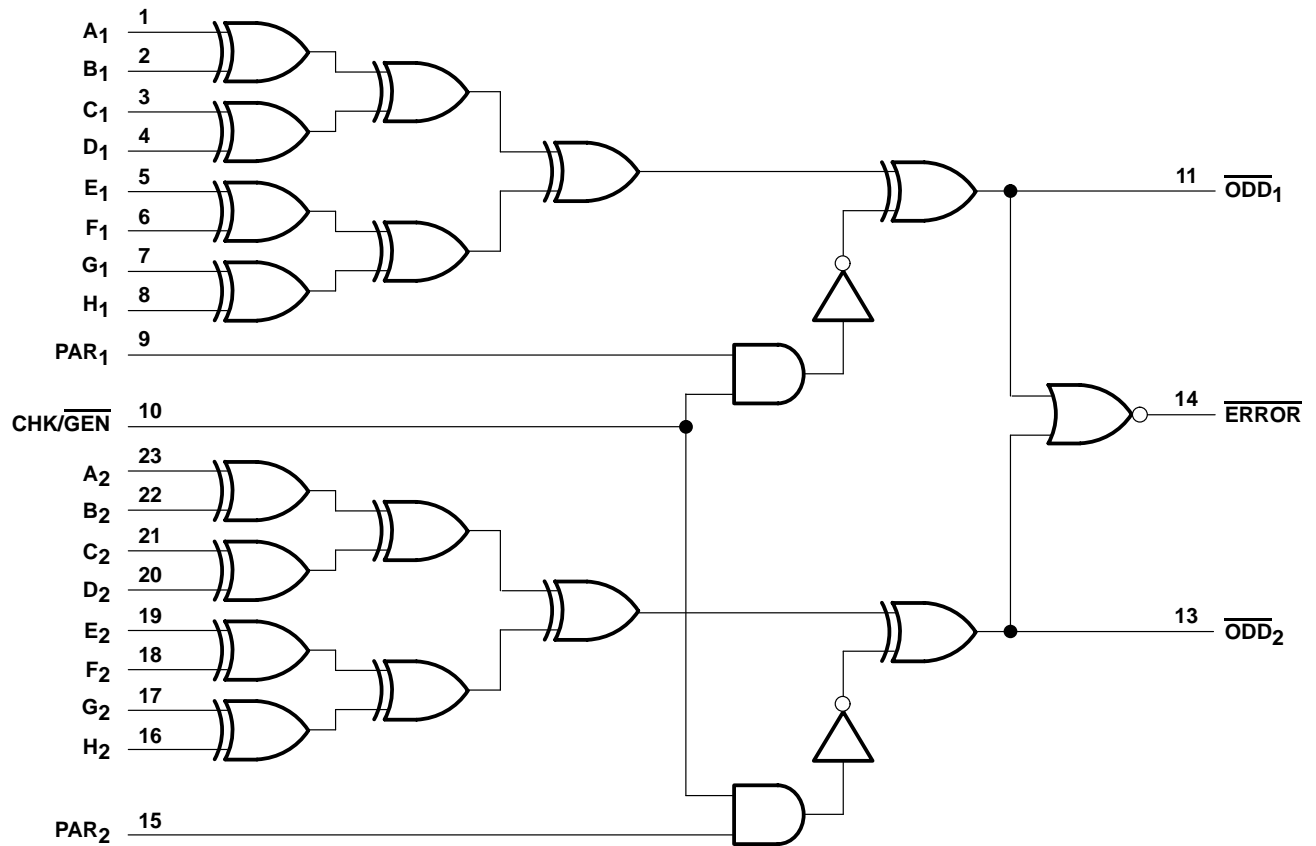
INPUTS					OUTPUTS		
A ₁ –H ₁	A ₂ –H ₂	CHK/ $\overline{\text{GEN}}$	PAR ₁	PAR ₂	$\overline{\text{ODD}}_1$	$\overline{\text{ODD}}_2$	$\overline{\text{ERROR}}$
Number of A ₁ –H ₁ inputs, high is even	Number of A ₂ –H ₂ inputs, high is even	H	H	H	L	L	H
		H	L	H	H	L	L
		H	H	L	L	H	L
		H	L	L	H	H	L
		L	X	X	H	H	L
	Number of inputs A ₂ –H ₂ , high is odd	H	H	H	L	H	L
		H	L	H	H	H	L
		H	H	L	L	L	H
		H	L	L	H	L	L
		L	X	X	H	L	L
Number of A ₁ –H ₁ inputs, high is odd	Number of A ₂ –H ₂ inputs, high is even	H	H	H	H	L	L
		H	L	H	L	L	H
		H	H	L	H	H	L
		H	L	L	L	H	L
		L	X	X	L	H	L
	Number of A ₂ –H ₂ inputs, high is odd	H	H	H	H	H	L
		H	L	H	L	H	L
		H	H	L	H	L	L
		H	L	L	L	L	H
		L	X	X	L	L	H

H = High logic level, L = Low logic level, X = Don't care



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logic diagram



Pin numbers shown are for the P, Q, and SO packages.

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)[†]

Supply voltage range to ground potential	–0.5 V to 7 V
DC input voltage range	–0.5 V to 7 V
DC output voltage range	–0.5 V to 7 V
DC output current (maximum sink current/pin)	120 mA
Package thermal impedance, θ_{JA} (see Note 1): P package	67°C/W
(see Note 2): Q package	61°C/W
(see Note 2): SO package	46°C/W
Ambient temperature range with power applied, T_A	–65°C to 135°C
Storage temperature range, T_{stg}	–65°C to 150°C

[†] 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.

- NOTES: 1. The package thermal impedance is calculated in accordance with JESD 51-3.
 2. The package thermal impedance is calculated in accordance with JESD 51-7.

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recommended operating conditions (see Note 3)

		CY54FCT480T			CY74FCT480T			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	
V _{CC}	Supply voltage	4.5	5	5.5	4.75	5	5.25	V
V _{IH}	High-level input voltage	2			2			V
V _{IL}	Low-level input voltage			0.8			0.8	V
I _{OH}	High-level output current			–12			–32	mA
I _{OL}	Low-level output current			32			64	mA
T _A	Operating free-air temperature	–55		125	–40		85	°C

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation.

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

PARAMETER	TEST CONDITIONS	CY54FCT480T			CY74FCT480T			UNIT
		MIN	TYP†	MAX	MIN	TYP†	MAX	
V _{IK}	V _{CC} = 4.5 V, I _{IN} = –18 mA		–0.7	–1.2				V
	V _{CC} = 4.75 V, I _{IN} = –18 mA					–0.7	–1.2	
V _{OH}	V _{CC} = 4.5 V, I _{OH} = –12 mA	2.4	3.3					V
	V _{CC} = 4.75 V				2.4	3.3		
					2			
V _{OL}	V _{CC} = 4.5 V, I _{OL} = 32 mA		0.3	0.55				V
	V _{CC} = 4.75 V, I _{OL} = 64 mA					0.3	0.55	
V _{hys}	All inputs		0.2			0.2		V
I _I	V _{CC} = 5.5 V, V _{IN} = V _{CC}			5				μA
	V _{CC} = 5.25 V, V _{IN} = V _{CC}						5	
I _{IH}	V _{CC} = 5.5 V, V _{IN} = 2.7 V			±1				μA
	V _{CC} = 5.25 V, V _{IN} = 2.7 V						±1	
I _{IL}	V _{CC} = 5.5 V, V _{IN} = 0.5 V			±1				μA
	V _{CC} = 5.25 V, V _{IN} = 0.5 V						±1	
I _{off}	V _{CC} = 0 V, V _{OUT} = 4.5 V			±1			±1	μA
I _{OS} ‡	V _{CC} = 5.5 V, V _{OUT} = 0 V	–60	–120	–225				mA
	V _{CC} = 5.25 V, V _{OUT} = 0 V				–60	–120	–225	
I _{OZH}	V _{CC} = 5.5 V, V _{OUT} = 2.7 V			10				μA
	V _{CC} = 5.25 V, V _{OUT} = 2.7 V						10	
I _{OZL}	V _{CC} = 5.5 V, V _{OUT} = 0.5 V			–10				μA
	V _{CC} = 5.25 V, V _{OUT} = 0.5 V						–10	
I _{CC}	V _{CC} = 5.5 V, V _{IN} ≤ 0.2 V, V _{IN} ≥ V _{CC} – 0.2 V		0.1	0.2				mA
	V _{CC} = 5.25 V, V _{IN} ≤ 0.2 V, V _{IN} ≥ V _{CC} – 0.2 V					0.1	0.2	
ΔI _{CC}	V _{CC} = 5.5 V, V _{IN} = 3.4 V§, f ₁ = 0, Outputs open		0.5	2				mA
	V _{CC} = 5.25 V, V _{IN} = 3.4 V§, f ₁ = 0, Outputs open					0.5	2	

† Typical values are at V_{CC} = 5 V, T_A = 25°C.

‡ Not more than one output should be shorted at a time. Duration of short should not exceed one second. The use of high-speed test apparatus and/or sample-and-hold techniques are preferable to minimize internal chip heating and more accurately reflect operational values. Otherwise, prolonged shorting of a high output can raise the chip temperature well above normal and cause invalid readings in other parametric tests. In any sequence of parameter tests, I_{OS} tests should be performed last.

§ Per TTL-driven input (V_{IN} = 3.4 V); all other inputs at V_{CC} or GND



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

PARAMETER	TEST CONDITIONS			CY54FCT480T			CY74FCT480T			UNIT
				MIN	TYP†	MAX	MIN	TYP†	MAX	
I _{CCD} ^{††}	V _{CC} = 5.5 V, Outputs open, One bit switching at 50% duty cycle, V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} – 0.2 V				0.06	0.12				mA/ MHz
	V _{CC} = 5.25 V, Outputs open, One bit switching at 50% duty cycle, V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} – 0.2 V						0.06 0.12			
I _C [#]	V _{CC} = 5.5 V, f ₀ = 0 MHz, Outputs open	One bit switching at f ₁ = 2.5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} – 0.2 V		0.7	1.4				mA
			V _{IN} = 3.4 V or GND		1	2.4				
		16 bits switching at f ₁ = 2.5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} – 0.2 V		2.5	5				
			V _{IN} = 3.4 V or GND		6.5	21				
	V _{CC} = 5.25 V, f ₀ = 0 MHz, Outputs open	One bit switching at f ₁ = 2.5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} – 0.2 V				0.7	1.4		
			V _{IN} = 3.4 V or GND				1	2.4		
		16 bits switching at f ₁ = 2.5 MHz at 50% duty cycle	V _{IN} ≤ 0.2 V or V _{IN} ≥ V _{CC} – 0.2 V				2.5	5		
			V _{IN} = 3.4 V or GND				6.5	21		
C _i					5	10		5	10	pF
C _o					9	12		9	12	pF

† Typical values are at $V_{CC} = 5$ V, $T_A = 25^\circ\text{C}$.

†† This parameter is derived for use in total power-supply calculations.

$I_C = I_{CC} + \Delta I_{CC} \times D_H \times N_T + I_{CCD} (f_0/2 + f_1 \times N_1)$

Where:

I_C = Total supply current

I_{CC} = Power-supply current with CMOS input levels

ΔI_{CC} = Power-supply current for a TTL high input ($V_{IN} = 3.4$ V)

D_H = Duty cycle for TTL inputs high

N_T = Number of TTL inputs at D_H

I_{CCD} = Dynamic current caused by an input transition pair (HLH or LHL)

f_0 = Clock frequency for registered devices, otherwise zero

f_1 = Input signal frequency

N_1 = Number of inputs changing at f_1

All currents are in milliamperes and all frequencies are in megahertz.

|| Values for these conditions are examples of the I_{CC} formula.

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switching characteristics over operating free-air temperature range (see Figure 1)

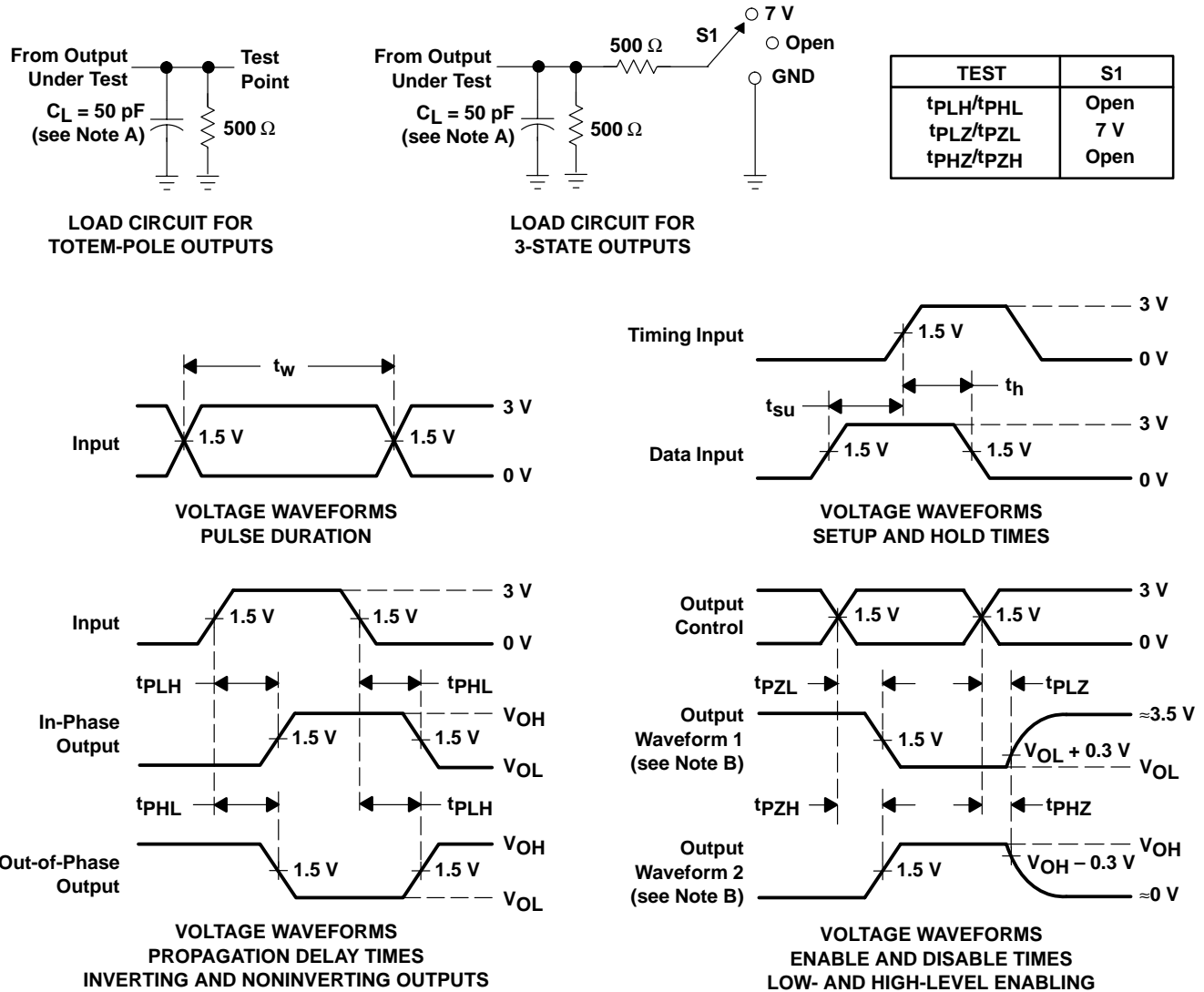
PARAMETER	FROM (INPUT)	TO (OUTPUT)	CY74FCT480AT		CY54FCT480BT		CY74FCT480BT		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	
t _{PLH}	A	$\overline{\text{ODD}}$ (see Figure 1)	7.5		7		6.1		ns
t _{PHL}			7		6.6		6.1		
t _{PLH}	CHK/ $\overline{\text{GEN}}$	$\overline{\text{ODD}}$ (see Figure 1)	6.5		6.3		5.9		ns
t _{PHL}			7.5		7.4		5.9		
t _{PLH} [†]	A	$\overline{\text{ERROR}}$ (see Figure 2)	7		7		6.1		ns
t _{PHL}			8.5		8.1		6.5		
t _{PLH}	CHK/ $\overline{\text{GEN}}$	$\overline{\text{ERROR}}$ (see Figure 2)	7.5		7.1		5.7		ns
t _{PHL}			7		6.9		5.5		

[†] t_{PLH} is measured up to V_{OUT} = V_{OL} + 0.3 V.



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PARAMETER MEASUREMENT INFORMATION



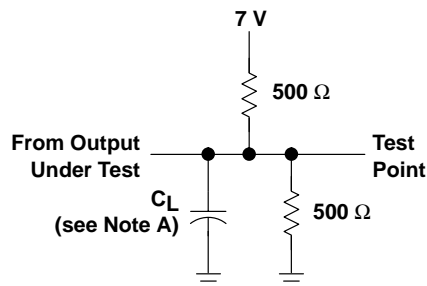
- NOTES: A. C_L includes probe and jig capacitance.
 B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
 C. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms

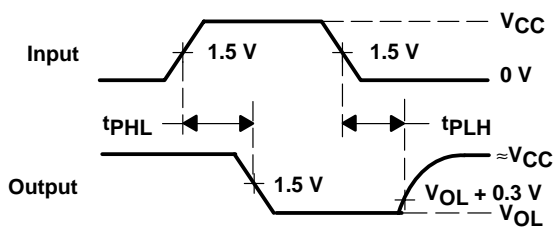
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PARAMETER MEASUREMENT INFORMATION FOR OPEN-DRAIN OUTPUTS



LOAD CIRCUIT FOR
OPEN-DRAIN OUTPUTS



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES

- NOTES: A. C_L includes probe and jig capacitance.
B. All input pulses are supplied by generators having the following characteristics: $PRR \leq 1 \text{ MHz}$, $Z_O = 50 \Omega$, $t_r \leq 3 \text{ ns}$, $t_f \leq 3 \text{ ns}$.
C. The outputs are measured one at a time with one input transition per measurement.

Figure 2. Load Circuit and Voltage Waveforms

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
CY54FCT480BTLMB	ACTIVE	LCCC	FK	28	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	CY54FCT 480BTLMB	Samples
CY74FCT480BTPC	OBSOLETE	PDIP	NT	24		TBD	Call TI	Call TI	-40 to 85	CY74FCT480BTPC	
CY74FCT480BTPCE4	OBSOLETE	PDIP	NT	24		TBD	Call TI	Call TI	-40 to 85		
CY74FCT480BTQCT	OBSOLETE	SSOP	DBQ	24		TBD	Call TI	Call TI	-40 to 85	FCT480B	
CY74FCT480BTQCTE4	OBSOLETE	SSOP	DBQ	24		TBD	Call TI	Call TI	-40 to 85		
CY74FCT480BTQCTG4	OBSOLETE	SSOP	DBQ	24		TBD	Call TI	Call TI	-40 to 85		
CY74FCT480BTSOC	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT480B	Samples
CY74FCT480BTSOCE4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT480B	Samples
CY74FCT480BTSOCG4	ACTIVE	SOIC	DW	24	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	FCT480B	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) Only one of markings shown within the brackets will appear on the physical device.

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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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