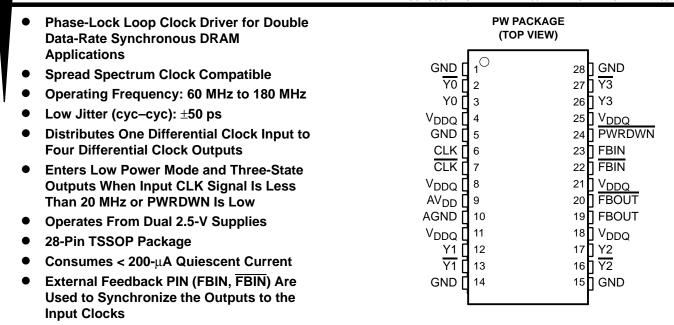
CDCV855, CDCV855I 2.5-V PHASE-LOCK LOOP CLOCK DRIVER

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description

The CDCV855 is a high-performance, low-skew, low-jitter zero delay buffer that distributes a differential clock input pair (CLK, $\overline{\text{CLK}}$) to four differential pairs of clock outputs (Y[0:3], $\overline{\text{Y[0:3]}}$) and one differential pair of feedback clock outputs (FBOUT, $\overline{\text{FBOUT}}$). When $\overline{\text{PWRDWN}}$ is high, the outputs switch in phase and frequency with CLK. When $\overline{\text{PWRDWN}}$ is low, all outputs are disabled to a high-impedance state (3-state), and the PLL is shut down (low-power mode). The device also enters this low-power mode when the input frequency falls below a suggested detection frequency that is below 20 MHz (typical 10 MHz). An input frequency detection circuit detects the low-frequency condition and after applying a >20-MHz input signal this detection circuit turns on the PLL again and enables the outputs.

When AV_{DD} is tied to GND, the PLL is turned off and bypassed for test purposes. The CDCV855 is also able to track spread spectrum clocking for reduced EMI.

Since the CDCV855 is based on PLL circuitry, it requires a stabilization time to achieve phase-lock of the PLL. This stabilization time is required following power up. The CDCV855 is characterized for both commercial and industrial temperature ranges.

AVAILABLE OPTIONS

.	PACKAGED DEVICES
ТА	TSSOP (PW)
0°C to 70°C	CDCV855PW
-40°C to 85°C	CDCV855IPW



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.

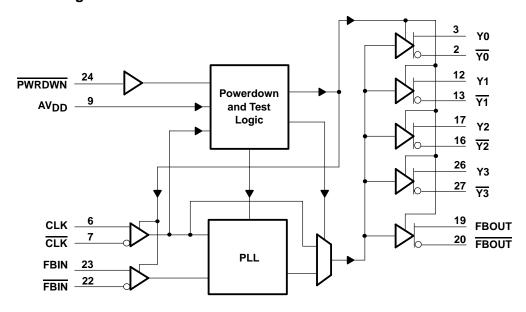


FUNCTION TABLE (Select Functions)

	INPUT	·s			PLL			
AV _{DD}	PWRDWN	CLK	CLK	Y[0:3]	Y[0:3]	FBOUT	FBOUT	
GND	Н	L	Н	L	Н	L	Н	Bypassed/Off
GND	Н	Н	L	Н	L	Н	L	Bypassed/Off
X	L	L	Н	Z	Z	Z	Z	Off
X	L	Н	L	Z	Z	Z	Z	Off
2.5 V (nom)	Н	L	Н	L	Н	L	Н	On
2.5 V (nom)	Н	Н	L	Н	Ĺ	Н	L	On
2.5 V (nom)	Х	<20 MHz†	<20 MHz [†]	Z	Z	Z	Z	Off

[†] Typically 10 MHz

functional block diagram



Terminal Functions

TER	TERMINAL		TERMINAL						
NAME	NO.	1/0	DESCRIPTION						
AGND	10		Ground for 2.5-V analog supply						
AV_{DD}	9		2.5-V analog supply						
CLK, CLK	6, 7	-	Differential clock input						
FBIN, FBIN	23, 22	ı	Feedback differential clock input						
FBOUT, FBOUT	19, 20	0	Feedback differential clock output						
GND	1, 5, 14, 15, 28		Ground						
PWRDWN	24	1	Control input to turn device in the power-down mode						
V_{DDQ}	4, 8, 11, 18, 21, 25		2.5-V supply						
Y[0:3]	3, 12, 17, 26	0	Buffered output copies of input clock, CLK						
<u>Y[0:3]</u>	2, 13, 16, 27	0	Buffered output copies of input clock, CLK						



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

Supply voltage range, V _{DDQ} , AV _{DD}	
Input voltage range, V _I (see Notes 1 and 2)	0.5 V to V _{DDQ} + 0.5 V
Output voltage range, VO (see Notes 1 and 2)	0.5 V to V _{DDQ} + 0.5 V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{DDQ}$)	±50 mA
Output clamp current, I_{OK} ($V_O < 0$ or $V_O > V_{DDQ}$)	±50 mA
Continuous output current, I_O ($V_O = 0$ to V_{DDQ})	±50 mA
Continuous current to GND or V _{DDQ}	±100 mA
Package thermal impedance, θ _{JA} (see Note 3): PW package	105.8°C/W
Storage temperature range T _{stq}	

[†] 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 input and output negative voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
 - 2. This value is limited to 3.6 V maximum.
 - 3. The package thermal impedance is calculated in accordance with JESD 51.

recommended operating conditions (see Note 4)

		MIN	TYP	MAX	UNIT
Supply voltage, V _{DDQ} , AV _{DD}		2.3		2.7	V
Law law Band or kan V	CLK, CLK, FBIN, FBIN			V _{DDQ} /2 – 0.18	
Low-level input voltage, V _{IL}	PWRDWN	-0.3		0.7	V
I Pale Javed Secretarial terrory M	CLK, CLK, FBIN, FBIN	V _{DDQ} /2 + 0.18	V _{DDQ} /2 + 0.18		
High-level input voltage, V _{IH}	PWRDWN	1.7		V _{DDQ} + 0.3	V
DC input signal voltage (see Note 5)	ignal voltage (see Note 5) -0.3			V_{DDQ}	V
Differential input signal voltage, V _{ID} (see Note 6)	CLK, FBIN	0.36		V _{DDQ} + 0.6	V
Output differential cross-voltage, VO(X) (see Note 7)		V _{DDQ} /2 - 0.2	V _{DDQ} /2	V _{DDQ} /2 + 0.2	V
Input differential pair cross-voltage, $V_{I(X)}$ (see Note	7)	V _{DDQ} /2 - 0.2		$V_{DDQ}/2 + 0.2$	V
High-level output current, IOH				-12	mA
Low-level output current, IOL				12	mA
Input slew rate, SR (see Figure 7)	·	1		4	V/ns
On continue for a sin to consume to	Commercial	0		85	00
Operating free-air temperature, T _A	Industrial	-40		85	°C

NOTES: 4. Unused inputs must be held high or low to prevent them from floating.

- 5. DC input signal voltage specifies the allowable dc execution of differential input.
- 6. Differential input signal voltage specifies the differential voltage |VTR VCP| required for switching, where VTR is the true input level and VCP is the complementary input level.
- 7. Differential cross-point voltage is expected to track variations of V_{DDQ} and is the voltage at which the differential signals must be crossing.



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

	PARAMETER		TEST C	ONDITIONS	MIN	TYP†	MAX	UNIT
VIK	Input voltage	All inputs	$V_{DDQ} = 2.3 V,$	I _I = -18 mA			-1.2	V
V	High lavel autout		V _{DDQ} = min to max	c, I _{OH} = -1 mA	V _{DDQ} – 0.1			V
VOH	High-level output	voitage	$V_{DDQ} = 2.3 V$,	$I_{OH} = -12 \text{ mA}$	1.7			V
V	Low-level output	voltogo	V _{DDQ} = min to max	k , $I_{OL} = 1 \text{ mA}$			0.1	V
V _{OL}	Low-level output	voitage	$V_{DDQ} = 2.3 V,$			0.6	V	
loн	High-level output	current	$V_{DDQ} = 2.3 V,$	V _O = 1 V	-18	-32		mA
loL	Low-level output	current	$V_{DDQ} = 2.3 V,$	V _O = 1.2 V	26	35		mA
V_{OD}	Output voltage swing Output differential cross-voltage [‡]		e swing Differential outputs are terminated with				V _{DDQ} – 0.4	
VOX			120 Ω	V _{DDQ} /2 – 0.2	V _{DDQ} /2	V _{DDQ} /2 + 0.2	V	
lį	Input current		$V_{DDQ} = 2.7 V,$	V _I = 0 V to 2.7 V			±10	μΑ
I _{OZ}	High-impedance- current	state output	V _{DDQ} = 2.7 V,	$V_O = V_{DDQ}$ or GND			±10	μΑ
I _{DD(PD)}	Power-down curr V _{DDQ} + AV _{DD}	ent on	CLK and $\overline{\text{CLK}} = 0 \text{ N}$ Σ of IDD and AIDD	IHz; PWRDWN = Low;		100	200	μΑ
		.,	Differential outputs are terminated with 120 Ω / CL = 14 pF			150	180	
IDD	Dynamic current on V _{DDQ}		Differential outputs are terminated with $120 \Omega / CL = 0 pF$	re terminated with		130	160	mA
AI_{DD}	Supply current or	n AV _{DD}	f _O = 167 MHz			8	10	mA
Cl	Input capacitance	9	V _{DDQ} = 2.5 V	$V_I = V_{DDQ}$ or GND	2	2.5	3	pF
CO	Output capacitan	се	V _{DDQ} = 2.5 V	$V_O = V_{DDQ}$ or GND	2.5	3	3.5	pF

[†] All typical values are at respective nominal VDDQ.

timing requirements over recommended ranges of supply voltage and operating free-air temperature

	PARAMETER	MIN	MAX	UNIT
fCLK	Operating clock frequency	60	180	MHz
	Input clock duty cycle	40%	60%	
	Stabilization time (PLL mode)		10	μs
	Stabilization time (Bypass mode)§		30	ns

[§] Recovery time required when the device goes from power-down mode into bypass mode (test mode with AVDD at GND).



Differential cross-point voltage is expected to track variation of VDDQ and is the voltage at which the differential signals must be crossing.

Time required for the integrated PLL circuit to obtain phase lock of its feedback signal to its reference signal. For phase lock to be obtained, a fixed-frequency, fixed-phase reference signal must be present at CLK. Until phase lock is obtained, the specifications for propagation delay, skew, and jitter parameters given in the switching characteristics table are not applicable. This parameter does not apply for input modulation under SSC application.

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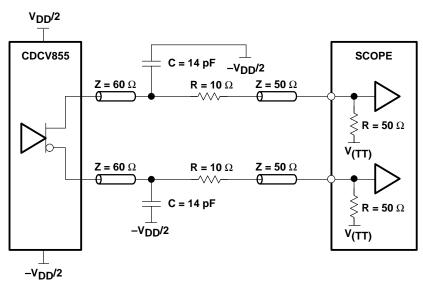
switching characteristics

	PARAMETER	TES	T CONDITIONS	MIN	TYP [†] MAX	UNIT	
tPLH [‡]	Low-to-high level propagation delay time	Test mod	e/CLK to any output		4.5	ns	
[‡]	High-to-low level propagation delay time	Test mod	e/CLK to any output		4.5	ns	
. 8	Fig. () 0 Fig. 5	66 MHz		-55	55	ps	
^t jit(per) [§]	Jitter (period), See Figure 5	100/133/	167/180 MHz	-35	35	ps	
. 8		66 MHz		-60	60		
t _{jit(cc)} §	Jitter (cycle-to-cycle), See Figure 2	100/133/	167/180 MHz	-50	50	ps	
	Half-period jitter, See Figure 6			-130	130		
^t jit(hper) [§]				-90	90	ps	
, , ,			180 MHz	-75	75		
	Output shade show rate Con Figure 7		20Ω / 14 pF	1	2	V/ns	
^t slr(o)	Output clock slew rate, See Figure 7	Load = 12	20Ω / 4 pF	1	3	V/ns	
		SSC off	66 MHz	-180	180		
			100/133 MHz	-130	130		
. 8	Dynamic phase offset (this includes jitter),		167/180 MHz	-90	90		
^t d(Ø) [§]	See Figure 3(b)		66 MHz	-230	230	ps	
		SSC on	100/133 MHz	-170	170		
			167/180 MHz	-100	100		
	Olatia who are affect. One Firm of (2)	66 MHz		-150	150		
^t (Ø)	Static phase offset, See Figure 3(a)		167/180 MHz	-100	100	ps	
tsk _(O) ¶	Output skew, See Figure 4				50	ps	
tr, tf	Output rise and fall times (20% – 80%)	Load: 120) Ω/14 pF	650	900	ps	

[†] All typical values are at a respective nominal V_{DDQ}. ‡ Refers to transition of noninverting output

[§] This parameter is assured by design but can not be 100% production tested. ¶ All differential output pins are terminated with 120 Ω /14 pF.

PARAMETER MEASUREMENT INFORMATION



NOTE: $V_{(TT)} = GND$

Figure 1. Output Load Test Circuit

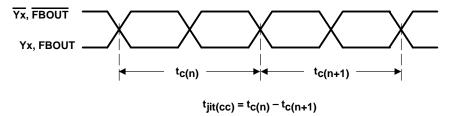
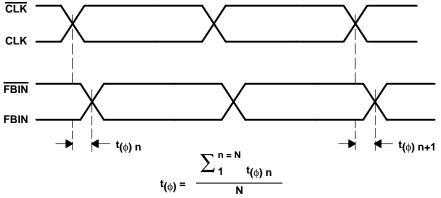


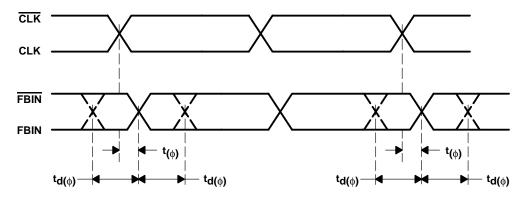
Figure 2. Cycle-to-Cycle Jitter

PARAMETER MEASUREMENT INFORMATION



(N is a Large Number of Samples)

(a) Static Phase Offset



(b) Dynamic Phase Offset

Figure 3. Phase Offset

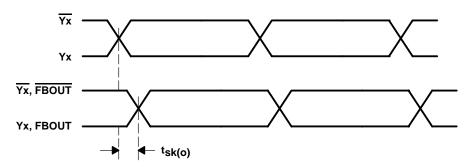


Figure 4. Output Skew

PARAMETER MEASUREMENT INFORMATION

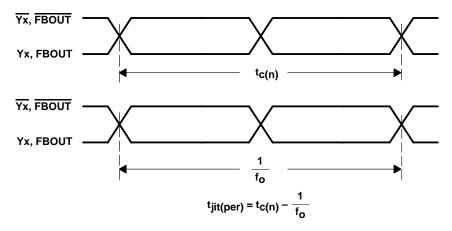


Figure 5. Period Jitter

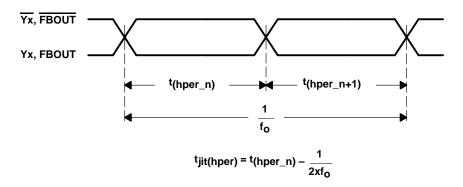


Figure 6. Half-Period Jitter

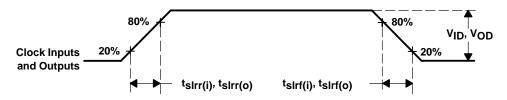


Figure 7. Input and Output Slew Rates





11-Apr-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Top-Side Markings	Samples
CDCV855IPW	NRND	TSSOP	PW	28	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CDCV855-I	
CDCV855IPWG4	NRND	TSSOP	PW	28	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CDCV855-I	
CDCV855IPWR	NRND	TSSOP	PW	28	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CDCV855-I	
CDCV855IPWRG4	NRND	TSSOP	PW	28	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	CDCV855-I	
CDCV855PW	NRND	TSSOP	PW	28	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	CDCV855	
CDCV855PWG4	NRND	TSSOP	PW	28	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	CDCV855	
CDCV855PWR	NRND	TSSOP	PW	28	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	CDCV855	
CDCV855PWRG4	NRND	TSSOP	PW	28	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	CDCV855	

⁽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.

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)

⁽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.

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



PACKAGE OPTION ADDENDUM

11-Apr-2013

(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.

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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





		Dimension designed to accommodate the component width
E	30	Dimension designed to accommodate the component length
K	(0	Dimension designed to accommodate the component thickness
	N	Overall width of the carrier tape
F	21	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CDCV855PWR	TSSOP	PW	28	2000	330.0	16.4	6.9	10.2	1.8	12.0	16.0	Q1

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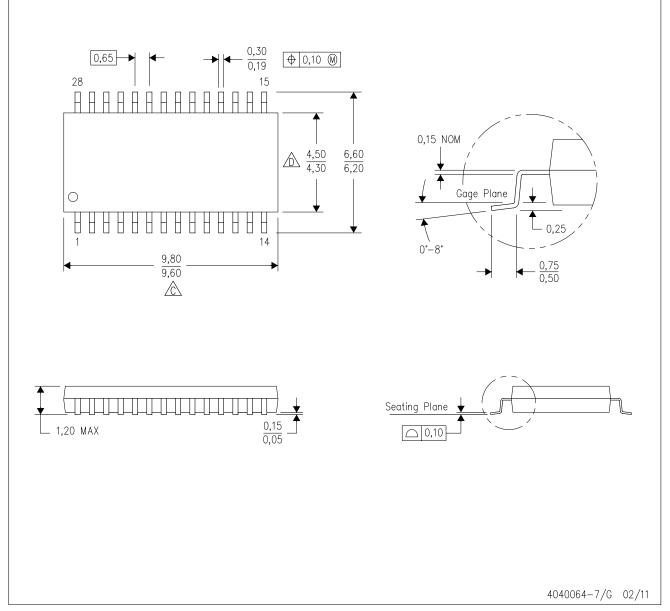


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CDCV855PWR	TSSOP	PW	28	2000	367.0	367.0	38.0

PW (R-PDSO-G28)

PLASTIC SMALL OUTLINE



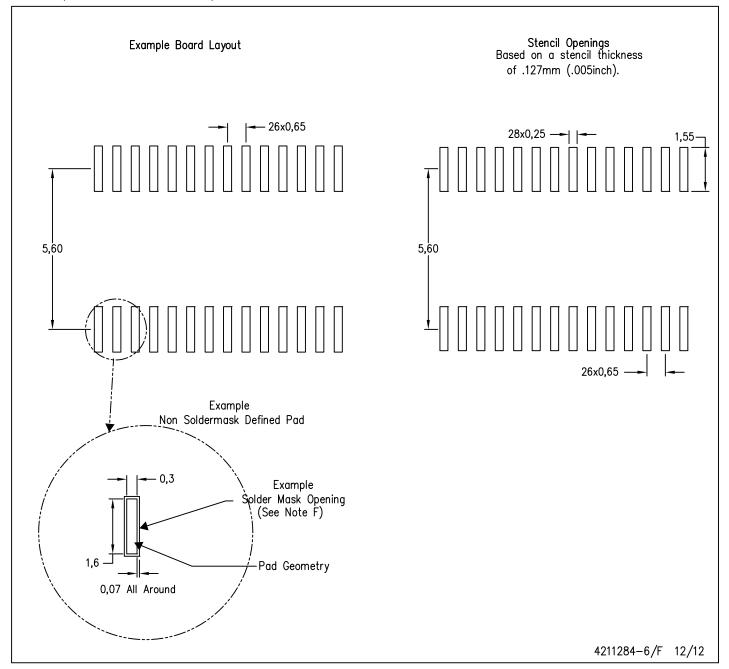
NOTES:

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



PW (R-PDSO-G28)

PLASTIC SMALL OUTLINE



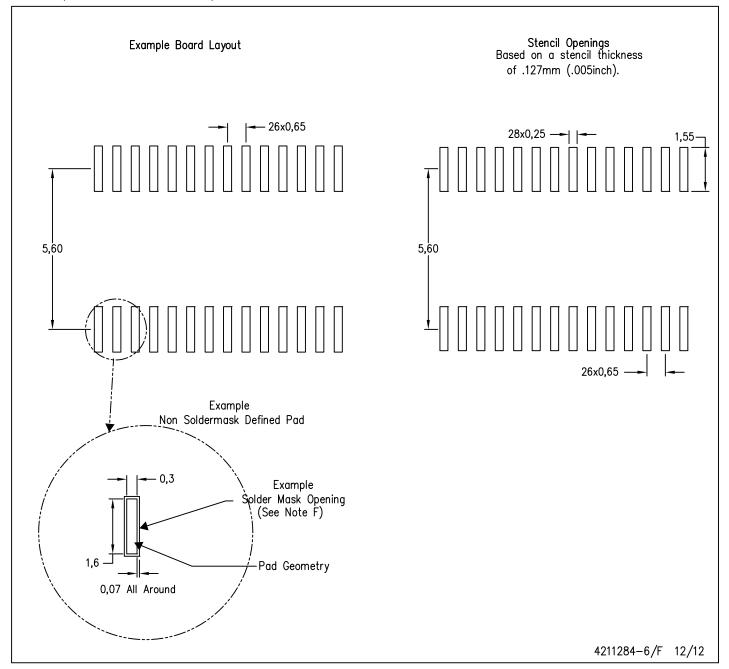
NOTES:

- 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.



PW (R-PDSO-G28)

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.
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- 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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