FEATURES

- Low and Flat ON-State Resistance (r_{on}) Characteristics Over Operating Range (r_{on} = 3 Ω Typ)
- 0- to 10-V Switching on Data I/O Ports
- Bidirectional Data Flow With Near-Zero Propagation Delay
- Low Input/Output Capacitance Minimizes Loading and Signal Distortion (C_{io(OFF)} = 20 pF Max, B Port)
- V_{CC} Operating Range From 4.75 V to 5.25 V
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested Per JESD 22
 - 2000-V Human-Body Model (A114-B, Class II)
 - 1000-V Charged-Device Model (C101)
- Supports Both Digital and Analog Applications: PCI Interface, Differential Signal Interface, Memory Interleaving, Bus Isolation, Low-Distortion Signal Gating

DESCRIPTION/ORDERING INFORMATION

The TS5N214 is a high-bandwidth FET bus switch utilizing a charge pump to elevate the gate voltage of the pass transistor, providing a low and flat ON-state resistance (r_{on}). The low and flat ON-state resistance allows for minimal propagation delay and supports rail-to-rail switching on the data input/output (I/O) ports. The device also features low data I/O capacitance to minimize capacitive loading and signal distorion on the data bus. Specifically designed to support high-bandwidth applications, the TS5N214 provides an optimized interface solution ideally suited for broadband communications, networking, and data-intensive computing systems.

The TS5N214 is a 2-bit 1-of-4 multiplexer/demultiplexer with separate output-enable $(1\overline{OE}, 2\overline{OE})$ inputs. The select (S0, S1) inputs control the data path of the multiplexer/demultiplexer. When \overline{OE} is low, the multiplexer/demultiplexer is enabled and the A port is connected to the B port, allowing bidirectional data flow between ports. When \overline{OE} is high, the multiplexer/demultiplexer is disabled and a high-impedance state exists between the A and B ports.

This device is fully specified for partial-power-down applications using I_{off}. The I_{off} circuitry prevents damaging current backflow through the device when it is powered down. The device has isolation during power off.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

ORDERING INFORMATION

T _A	PACKA	GE ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	SSOP (QSOP) – DBQ	Tape and reel	TS5N214DBQR	YB214
-40°C 10 85°C	TSSOP – PW	Tape and reel	TS5N214PWR	YB214

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



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.

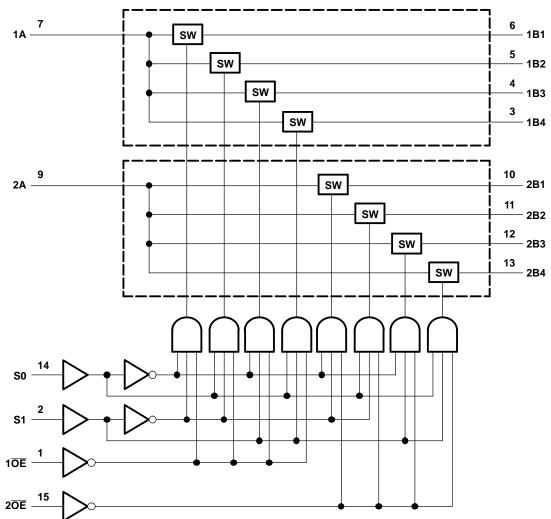
DBQ	DBQ OR PW PACKAGE (TOP VIEW)								
	Г	υ		Ļ					
1 <u>0</u> E [1	•	16	V _{cc}					
S1 [2		15] 2 <u>0E</u>					
1B4 [3		14] S0					
1B3 [4		13] 2B4					
1B2 [5		12] 2B3					
1B1 [6		11] 2B2					
1A [7		10] 2B1					
GND [8		9] 2A					
	-								



(EACH MULTIPLEXER/DEMULTIPLEXER)						
INPUTS	INPUT/OUTPUT	FUNCTIO				
E 64 60	Δ	FUNCTIO				

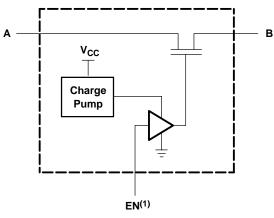
				FUNCTION
ŌĒ	S1	S0	Α	FUNCTION
L	L	L	B1	A port = B1 port
L	L	Н	B2	A port = B2 port
L	Н	L	B3	A port = B3 port
L	Н	Н	B4	A port = B4 port
Н	Х	Х	Z	Disconnect

LOGIC DIAGRAM (POSITIVE LOGIC)



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SIMPLIFIED SCHEMATIC, EACH FET SWITCH (SW)



(1) EN is the internal enable signal applied to the switch.

Absolute Maximum Ratings⁽¹⁾

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

			MIN	MAX	UNIT
V_{CC}	C Supply voltage range				V
VIN	Control input voltage range ⁽²⁾⁽³⁾		-0.5	7	V
V _{I/O}	Switch I/O voltage range ⁽²⁾⁽³⁾⁽⁴⁾		-0.5	11	V
I _{I/O}	ON-state switch current ⁽⁵⁾			±100	mA
	Continuous current through V_{CC} or GND			±100	mA
0	Deckage thermal impedance (6)	DBQ package		90	°C/W
θ_{JA}	Package thermal impedance ⁽⁶⁾	PW package		108	°C/W
T _{stg}	Storage temperature range		-65	150	°C

Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings (1) 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.

All voltages are with respect to ground, unless otherwise specified. (2)

The input and output voltage ratings may be exceeded if the input and output clamp-current ratings are observed. (3)

(4) V_{I} and V_{O} are used to denote specific conditions for $V_{I/O}$.

(5)

 I_l and I_o are used to denote specific conditions for I_{UO} . The package thermal impedance is calculated in accordance with JESD 51-7. (6)

Recommended Operating Conditions⁽¹⁾

		MIN	MAX	UNIT
V _{CC}	Supply voltage	4.75	5.25	V
$V_{\rm IH}$	High-level control input voltage	2	5.25	V
VIL	Low-level control input voltage	0	0.8	V
V _{I/O}	Data input/output voltage	0	10	V
T _A	Operating free-air temperature	-40	85	°C

All unused control inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, (1) Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

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Electrical Characteristics

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

F	PARAMETER		TEST CONDITIONS ⁽¹⁾		MIN TYP ⁽²⁾	MAX	UNIT
I _{IN}	Control inputs	V _{CC} = 5.25 V,	$V_{IN} = 0$ to V_{CC}			10	μA
I _{OZ} ⁽³⁾		V _{CC} = 5.25 V,	$V_{O} = 0$ to 10 V, $V_{I} = 0$,	Switch OFF, $V_{IN} = V_{CC}$ or GND		10	μA
02		$V_{CC} = 0 V,$	V _O = Open,	$V_{I} = 0$ to 10 V		10	•
I _{CC}		V _{CC} = 5.25 V,	I _{I/O} = 0, Switch ON or OFF,	$V_{IN} = V_{CC} \text{ or } GND$		10	mA
C _{in}	Control inputs	V _{CC} = 5 V,	V _{IN} = 10 V or 0			10	pF
0	A port	V _{CC} = 5 V,	Switch OFF, V _{IN} = V _{CC} or GND,	V _{I/O} = 10 V or 0		60	~ F
$C_{io(OFF)}$	B port	V _{CC} = 5 V,	Switch OFF, V _{IN} = V _{CC} or GND,	V _{I/O} = 10 V or 0		20	pF
C _{io(ON)}		V _{CC} = 5 V,	Switch ON, V _{IN} = V _{CC} or GND,	V _{I/O} = 10 V or 0		100	pF
			$V_{I} = 0 V,$	l _O = 50 mA	3	7.5	
r _{on} ⁽⁴⁾		$V_{CC} = 4.75 V$, TYP at $V_{CC} = 5 V$	V ₁ = 8 V,	I _O = -50 mA		7.5	Ω
			V _I = 10 V,	I _O = -50 mA		12.5	

(1)

 V_{IN} and I_{IN} refer to control inputs. V_I , V_O , I_I , and I_O refer to data pins. All typical values are at V_{CC} = 5 V (unless otherwise noted), T_A = 25°C. (2)

(3)

For I/O ports, the parameter I_{OZ} includes the I/O leakage current. Measured by the voltage drop between the A and B terminals at the indicated current through the switch. ON-state resistance is (4) determined by the lower of the voltages of the two (A or B) terminals.

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

PARAMETER	FROM	TO	V _{CC} = 5 V ± 0.25 V	UNIT	
	(INPUT)	(OUTPUT)	MIN MAX		
t _{pd} ⁽¹⁾	A or B	B or A	3	ns	
t _{pd(s)}	S	A	200	ns	
	S	В	200		
t _{en}	OE	A or B	200	ns	
	S	В	200		
t _{dis}	OE	A or B	200	ns	

(1) The propagation delay is the calculated RC time constant of the typical ON-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).

Dynamic Characteristics

over recommended operating free-air temperature range, V_{CC} = 5 V ± 5% (unless otherwise noted)

PARAMETER		TE	MIN TYP ⁽¹⁾ MAX	UNIT		
Bandwidth (BW) ⁽²⁾	R_L = 50 Ω ,	V _I = 0.632 V (P-P),	See Figure 4		25	MHz
OFF isolation (O _{ISO})	$R_{L} = 50 \ \Omega,$	V _I = 0.632 V (P-P),	f = 25 MHz,	See Figure 5	-50	dB
Crosstalk (X _{TALK})	R_{L} = 50 Ω ,	V _I = 0.632 V (P-P),	f = 25 MHz,	See Figure 6 and Figure 7	-50	dB

(1)

All typical values are at V_{CC} = 5 V (unless otherwise noted), T_A = 25°C Bandwidth is the frequency where the gain is -3 dB below the DC gain. (2)

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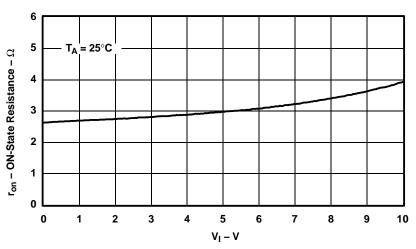


Figure 1. Typical r_{on} vs V_I, V_{CC} - 5 V, and I_O = -50 mA

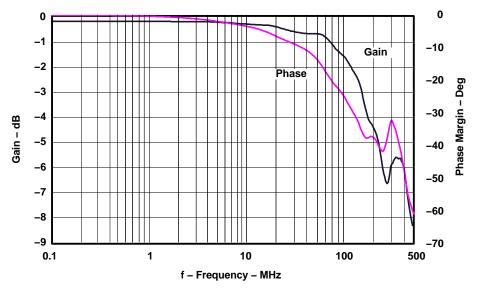


Figure 2. Frequency Response vs Bandwidth

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TYPICAL PERFORMANCE (continued)

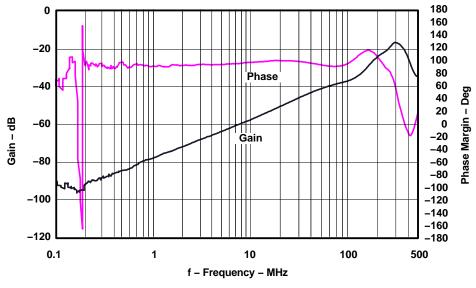


Figure 3. Frequency Response vs OFF Isolation

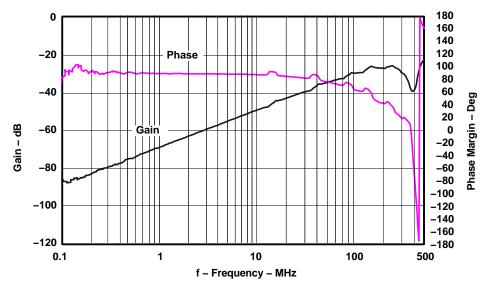
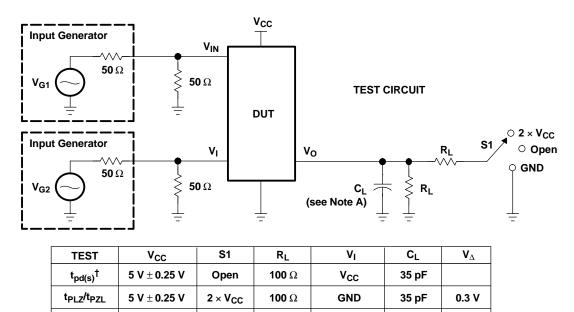


Figure 4. Frequency Response vs Crosstalk

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PARAMETER MEASUREMENT INFORMATION



[†] t_{pds} is measured with Demux inputs at opposite voltage levels, i.e. $V_{B1} = 5 V$, $V_{B2} = GND$.

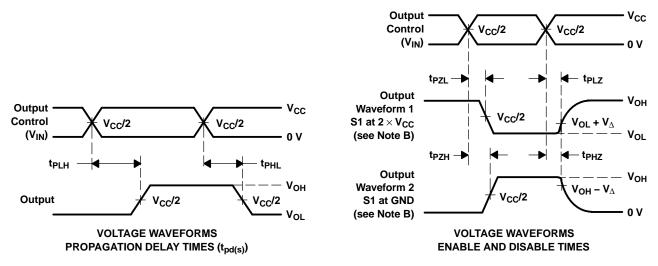
100 Ω

Vcc

35 pF

0.3 V

GND



NOTES: A. C_L includes probe and jig capacitance.

t_{PHZ}/t_{PZH}

 $5~V\pm0.25~V$

- 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. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_O = 50 Ω , t_f < 25 ns, t_f < 25 ns.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis}.
- F. t_{PZL} and t_{PZH} are the same as t_{en}.
- G. t_{PLH} and t_{PHL} are the same as t_{pd(s)}. The tpd propagation delay is the calculated RC time constant of the typical ON-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).
- H. All parameters and waveforms are not applicable to all devices.

Figure 5. Test Circuit and Voltage Waveforms

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PARAMETER MEASUREMENT INFORMATION (continued)

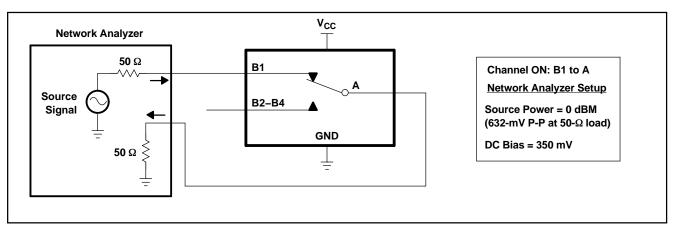


Figure 6. Bandwidth (BW)

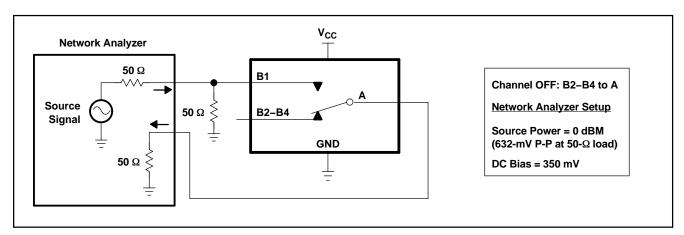


Figure 7. OFF Isolation (O_{ISO})

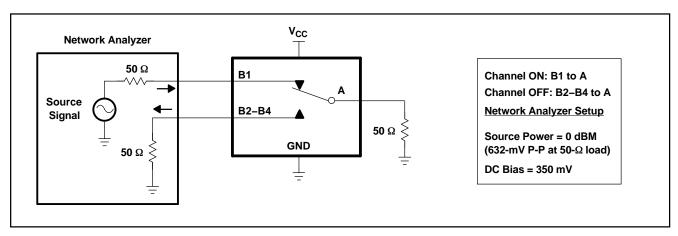


Figure 8. Crosstalk (X_{TALK})



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PARAMETER MEASUREMENT INFORMATION (continued)

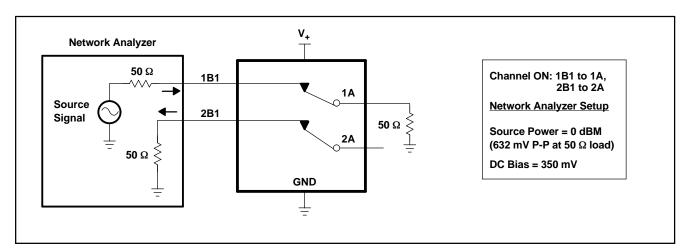


Figure 9. Adjacent Channel Crosstalk (X_{TALK})

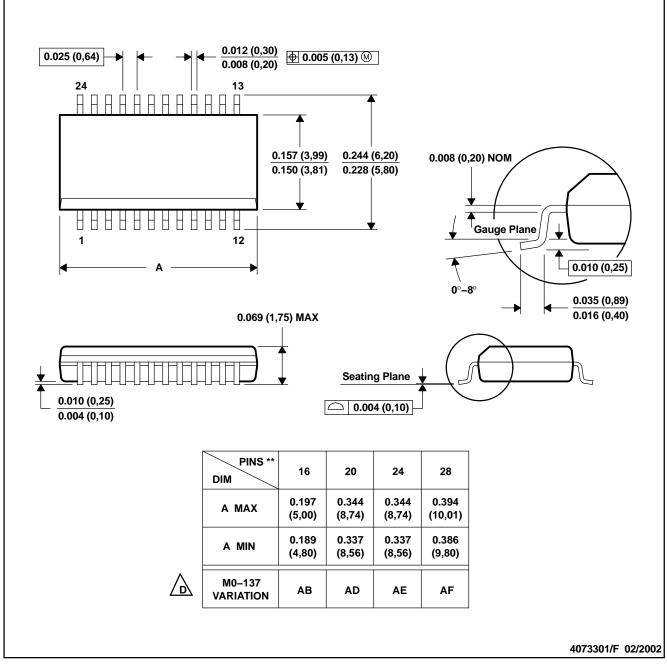
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MECHANICAL DATA

DBQ (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject ot change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MO-137.

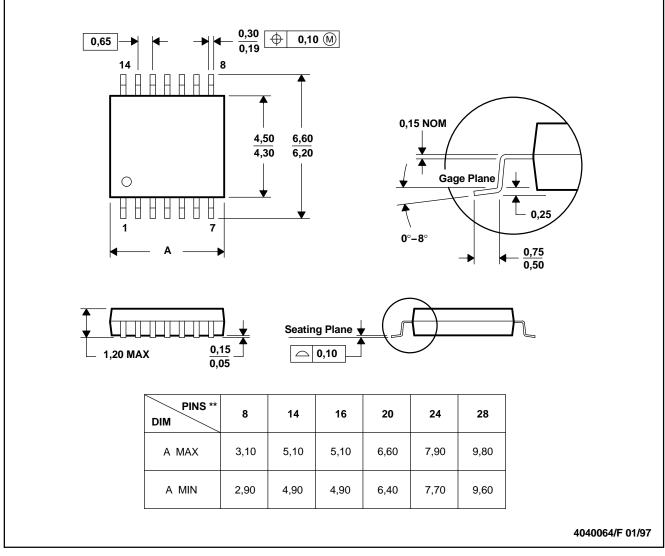
SCDS206-AUGUST 2005

MECHANICAL DATA (continued)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN

PW (R-PDSO-G**)



A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0, 15.

D. Falls within JEDEC MO-153

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
TS5N214DBQR	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
TS5N214DBQRE4	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
TS5N214DBQRG4	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
TS5N214PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N214PWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N214PWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N214PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N214PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N214PWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

⁽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.

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PACKAGE MATERIALS INFORMATION

w

(mm)

12.0

K0

(mm)

1.6

P1

(mm)

8.0

Pin1

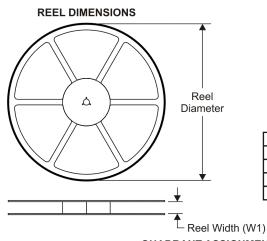
Quadrant

Q1

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TAPE AND REEL INFORMATION



TS5N214PWR

TSSOP



QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



330.0

12.4

6.9

5.6

All dimensions are nominal						
Device	Package Drawing		Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)

16

2000

PW

TEXAS INSTRUMENTS

www.ti.com

PACKAGE MATERIALS INFORMATION

30-Jul-2010



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TS5N214PWR	TSSOP	PW	16	2000	346.0	346.0	29.0

DBQ (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



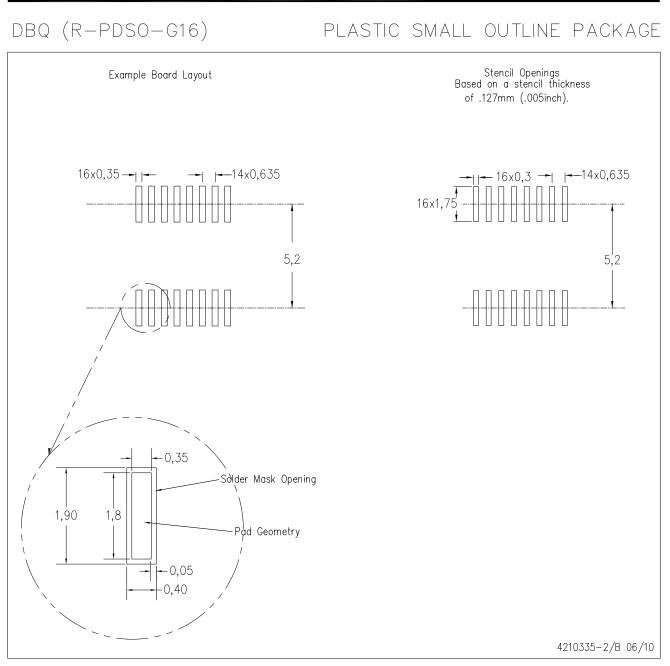
NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15) per side.

D. Falls within JEDEC MO-137 variation AB.





NOTES:

- A. All linear dimensions are in millimeters.B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



MECHANICAL DATA

MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.
- D. Falls within JEDEC MO-153



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		Wireless	www.ti.com/wireless-apps

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ООО "ЛайфЭлектроникс"

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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