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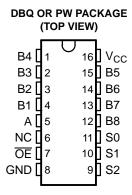
SCDS205-AUGUST 2005

FEATURES

- Low and Flat ON-State Resistance (r_{on}) Characteristics Over Operating Range $(r_{on} = 3 \Omega \text{ Typ})$
- 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

APPLICATIONS

- PCI Interface
- Differential Signal Interface
- Memory Interleaving
- Bus Isolation
- Low-Distortion Signal Gating



NC - No internal connection

DESCRIPTION/ORDERING INFORMATION

The TS5N118 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 distortion on the data bus. Specifically designed to support high-bandwidth applications, the TS5N118 provides an optimized interface solution ideally suited for broadband communications, networking, and data-intensive computing systems.

The TS5N118 is a 1-of-8 multiplexer/demultiplexer with a single output-enable (\overline{OE}) input. The select (S0, S1, S2) 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, $\overline{\text{OE}}$ 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	PACKAG	E ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING	
40°C to 95°C	SSOP (QSOP) – DBQ	Tape and reel	TS5N118DBQR	YB118	
–40°C to 85°C	TSSOP – PW	Tape and reel	TS5N118PWR	TDIIO	

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



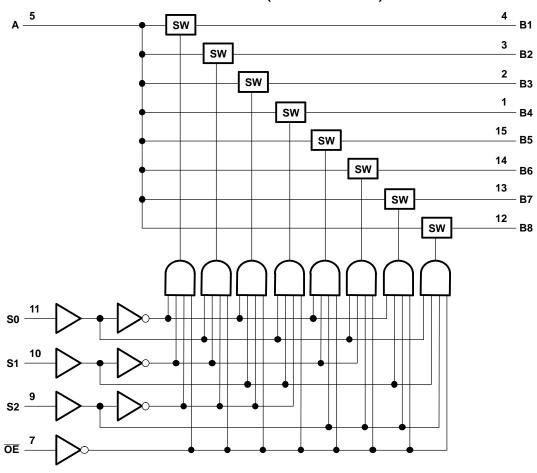
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



FUNCTION TABLE

	IN	PUTS	INPUT/OUTPUT	FUNCTION	
ŌĒ	S2	S1	S0	Α	FUNCTION
L	L	L	L	B1	A port = B1 port
L	L	L	Н	B2	A port = B2 port
L	L	Н	L	B3	A port = B3 port
L	L	Н	Н	B4	A port = B4 port
L	Н	L	L	B5	A port = B5 port
L	Н	L	Н	B6	A port = B6 port
L	Н	Н	L	B7	A port = B7 port
L	Н	Н	Н	B8	A port = B8 port
Н	Χ	X	X	Z	Disconnect

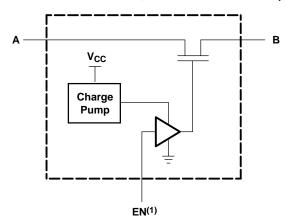
LOGIC DIAGRAM (POSITIVE LOGIC)







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}	CC Supply voltage range				V
V_{IN}	Control input voltage range (2)(3)		-0.5	7	V
V _{I/O}	Switch I/O voltage range ⁽²⁾⁽³⁾⁽⁴⁾				V
I _{I/O}	ON-state switch current ⁽⁵⁾				mA
	Continuous current through V _{CC} or GND			±100	mA
	Destruction (6)	DBQ package		90	
θ_{JA}	Package thermal impedance (6)	PW package			°C/W
T _{stg}	Storage temperature range		-65	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.
- All voltages are with respect to ground, unless otherwise specified.
- The input and output voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
- V_I and V_O are used to denote specific conditions for $V_{I/O}$. (4)
- $\rm I_{l}$ and $\rm I_{O}$ are used to denote specific conditions for $\rm I_{l/O}$. The package thermal impedance is calculated in accordance with JESD 51-7.

Recommended Operating Conditions⁽¹⁾

		MIN	MAX	UNIT
V_{CC}	Supply voltage	4.75	5.25	٧
V_{IH}	High-level control input voltage	2	5.25	V
V_{IL}	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

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

TS5N118 1-OF-8 FET MULTIPLEXER/DEMULTIPLEXER HIGH-BANDWIDTH BUS SWITCH

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Electrical Characteristics (1)

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

PA	RAMETER		TEST CONDITIONS		MIN TYP ⁽²⁾ I	MAX	UNIT
I _{IN}	Control inputs	V _{CC} = 5.25 V,	$V_{IN} = 0$ to V_{CC}			10	μΑ
I _{OZ} (3)		V _{CC} = 5.25 V,	$V_{O} = 0 \text{ to } 10 \text{ V},$ $V_{I} = 0,$	Switch OFF, $V_{IN} = V_{CC}$ or GND		10	μА
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,	$V_{IN} = V_{CC}$ or GND		10	mA
C _{in}	Control inputs	$V_{CC} = 5 V$,	V _{IN} = 10 V or 0			10	pF
•	A port	V _{CC} = 5 V,	Switch OFF, $V_{IN} = V_{CC}$ or GND,	$V_{I/O} = 10 \text{ V or } 0$		120	
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		160	pF
			V _I = 0,	I _O = 50 mA	3 7.		
$r_{on}^{(4)}$	$V_{CC} = 4.75 \text{ V},$ TYP at $V_{CC} = 5$		$V_1 = 8 V$	$I_O = -50 \text{ mA}$		7.5	Ω
			$V_1 = 10 V,$	I _O = -50 mA		12.5	

- 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.
- 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 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 (OUTPUT)	V _{CC} = 5 V ± 0.25 V	UNIT	
	(INPUT)	(001701)	MIN MAX		
t _{pd} ⁽¹⁾	A or B	B or A	0.1	ns	
t _{pd(s)}	S	Α	200	ns	
	S	В	200	ne	
^L en	ŌĒ	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 \pm 5% (unless otherwise noted)

PARAMETER		TEST (MIN	TYP ⁽¹⁾ MAX	UNIT		
Bandwidth (BW) ⁽²⁾	$R_L = 50 \Omega$,	$V_I = 0.632 V (P-P),$	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})	$R_L = 50 \Omega$,	$V_I = 0.632 V (P-P),$	f = 25 MHz,	See Figure 6		– 50	dB

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





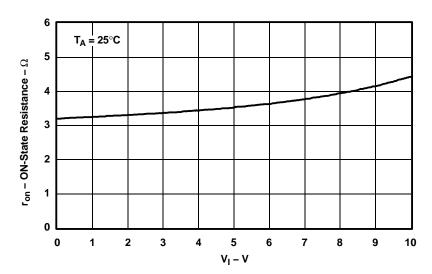


Figure 1. Typical r_{on} vs V_{I} , V_{CC} = 5 V and I_{O} = -50 mA

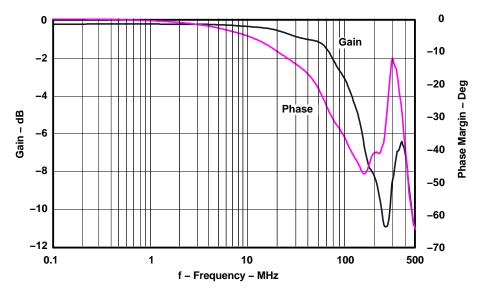


Figure 2. Frequency Response vs Bandwidth



TYPICAL PERFORMANCE

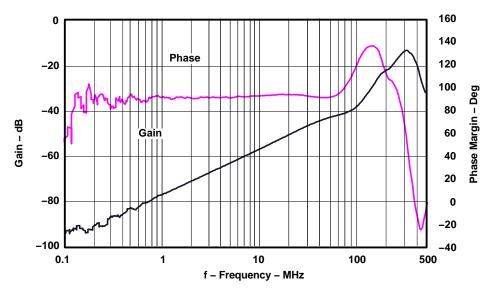


Figure 3. Frequency Response vs OFF Isolation

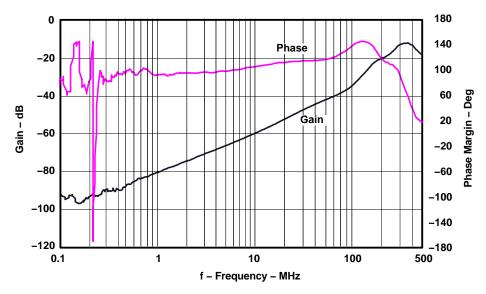
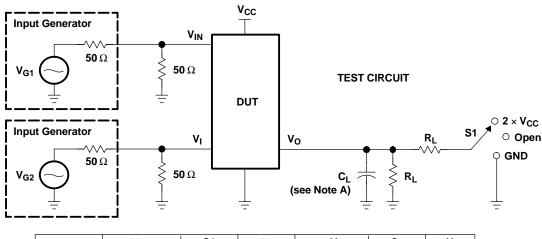


Figure 4. Frequency Response vs Crosstalk

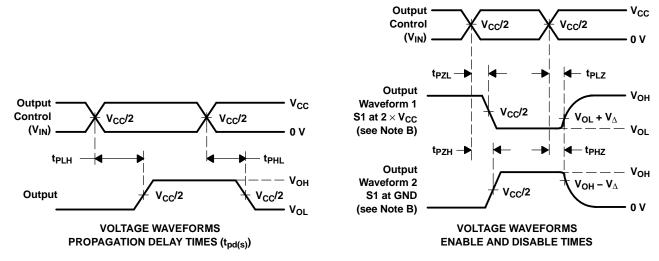


PARAMETER MEASUREMENT INFORMATION



TEST	V _{CC}	S1	R _L	V _I	CL	$oldsymbol{V}_\Delta$
t _{pd(s)} †	5 V ± 0.25 V	Open	100 Ω	V _{CC}	35 pF	
t _{PLZ} /t _{PZL}	5 V ± 0.25 V	2 × V _{CC}	100 Ω	GND	35 pF	0.3 V
t _{PHZ} /t _{PZH}	5 V ± 0.25 V	GND	100 Ω	V _{CC}	35 pF	0.3 V

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



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. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $Z_O = 50 \Omega$, $t_r < 25$ 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. tpLH and tpHL are the same as tpd(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



PARAMETER MEASUREMENT INFORMATION

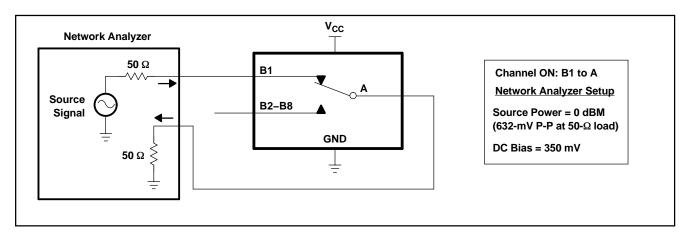


Figure 6. Bandwidth (BW)

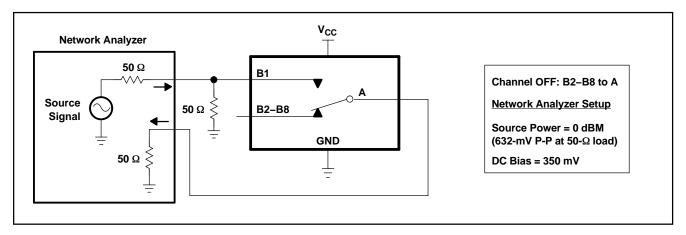


Figure 7. OFF Isolation (O_{ISO})

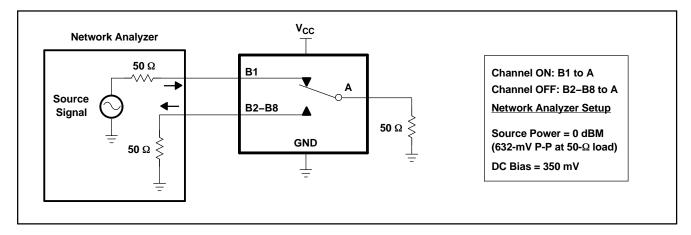


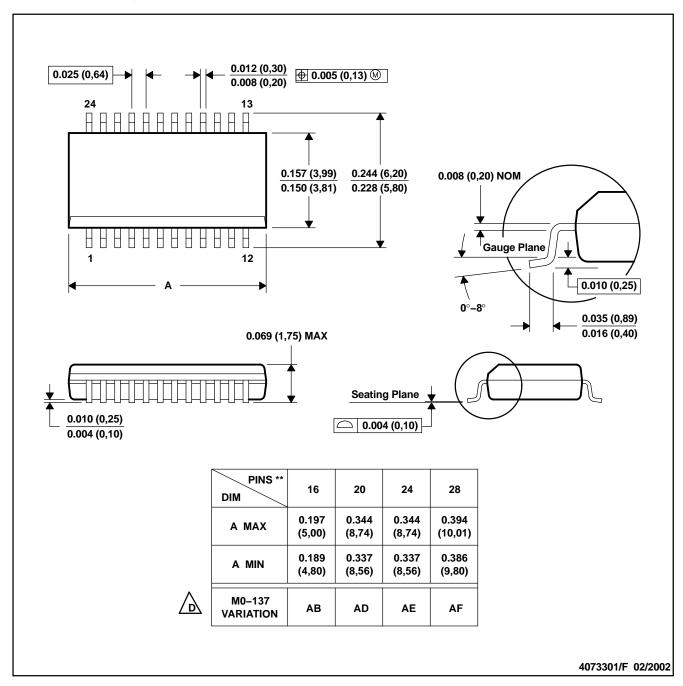
Figure 8. Crosstalk (X_{TALK})

SCDS205-AUGUST 2005





DBQ (R-PDSO-G**)



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

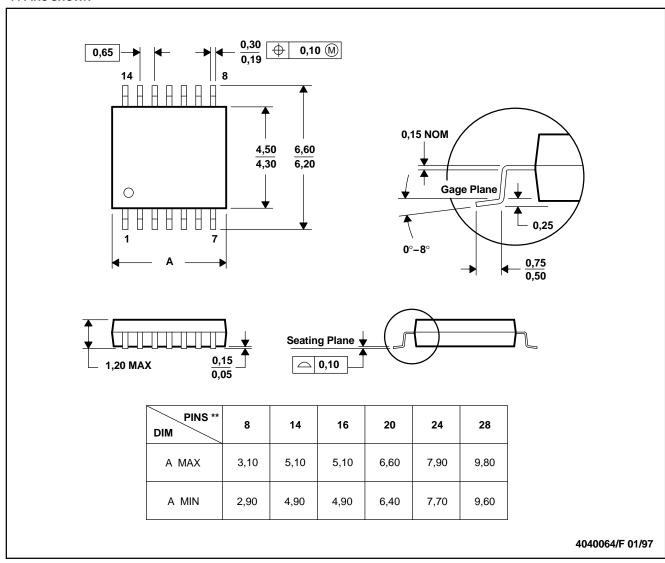
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MO-137.



MECHNICAL DATA

PW (R-PDSO-G**)

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





com 24-May-2007

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
TS5N118DBQR	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
TS5N118DBQRE4	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
TS5N118DBQRG4	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
TS5N118PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N118PWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N118PWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N118PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N118PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TS5N118PWRG4	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.

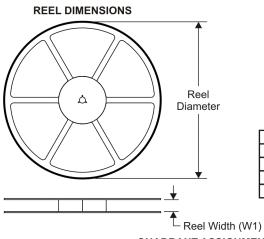
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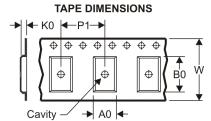
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PACKAGE MATERIALS INFORMATION

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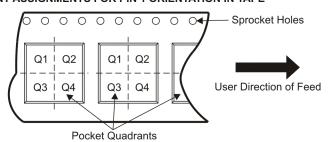
TAPE AND REEL INFORMATION





	A0	Dimension designed to accommodate the component width
		Dimension designed to accommodate the component length
	K0	Dimension designed to accommodate the component thickness
	W	Overall width of the carrier tape
Γ	P1	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
TS5N118PWR	TSSOP	PW	16	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

PACKAGE MATERIALS INFORMATION

www.ti.com 30-Jul-2010



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins SPQ		Length (mm)	Width (mm)	Height (mm)	
TS5N118PWR	TSSOP	PW	16	2000	346.0	346.0	29.0	

DBQ (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



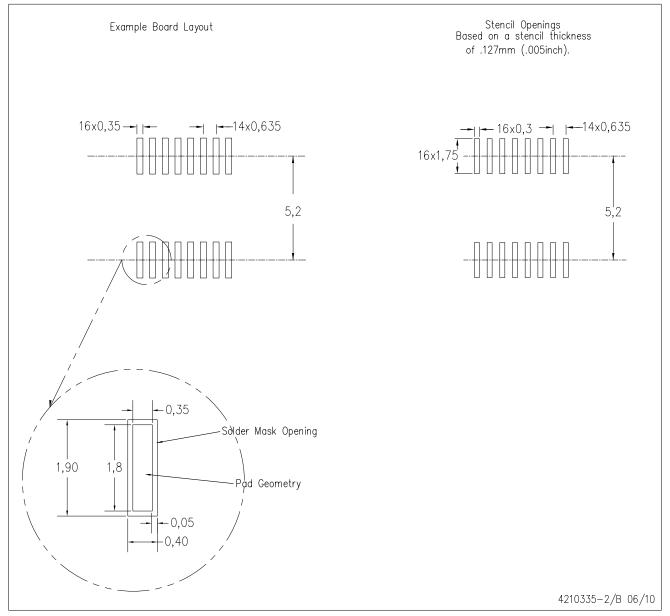
NOTES:

- 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.



DBQ (R-PDSO-G16)

PLASTIC SMALL OUTLINE PACKAGE



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.



PW (R-PDSO-G**)

14 PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



NOTES: A. All linear dimensions are in millimeters.

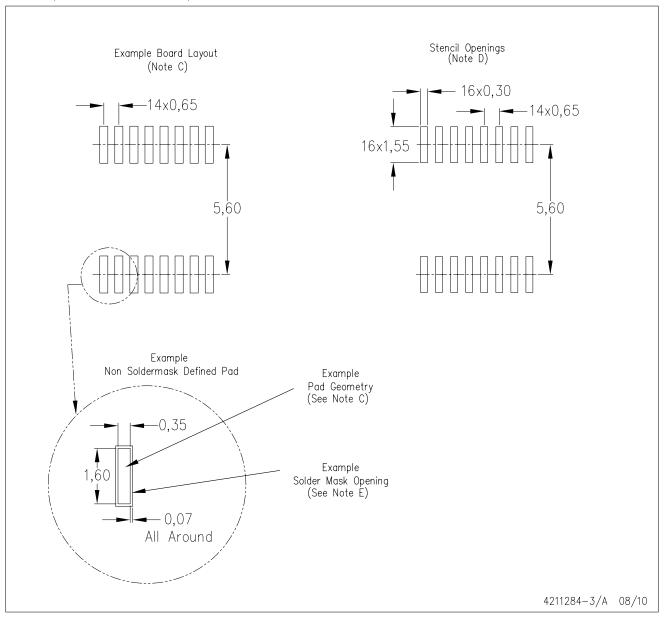
B. This drawing is subject to change without notice.

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

D. Falls within JEDEC MO-153

PW (R-PDSO-G16)

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 designs.
- 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.



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		Wireless	www.ti.com/wireless-apps

ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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