

General Description

The MAX4747–MAX4750 low-voltage, guad single-pole single-throw (SPST)/dual single-pole/double-throw (SPDT) analog switches operate from a single +2V to +11V supply and handle rail-to-rail analog signals. These switches exhibit low leakage current (0.1nA) and consume less than 0.5nW (typ) of guiescent power, making them ideal for battery-powered applications.

When powered from a +3V supply, these switches feature 50Ω (max) on-resistance (RON), with 3.5Ω (max) matching between channels and 9Ω (max) flatness over the specified signal range.

The MAX4747 has four normally open (NO) switches, the MAX4748 has four normally closed (NC) switches, and the MAX4749 has two NO and two NC switches. The MAX4750 has two SPDT switches. These switches are available in 14-pin TSSOP, 16-pin TQFN (4mm x 4mm), and 16-bump WLP packages. This tiny chip-scale package occupies a 2mm × 2mm area and significantly reduces the required PC board area.

Applications

Battery-Powered Systems Audio/Video-Signal Routing Low-Voltage Data-Acquisition Systems Cell Phones Communications Circuits Glucose Meters **PDAs**

Features

- ♦ 2mm × 2mm WLP
- ♦ Guaranteed On-Resistance (R_{ON}) 25Ω (max) at +5V 50Ω (max) at +3V
- ♦ On-Resistance Matching 3Ω (max) at +5V 3.5Ω (máx) at +3V
- Guaranteed < 0.1nA Leakage Current at $T_A = +25^{\circ}C$
- ♦ Single-Supply Operation from +2.0V to +11V
- ◆ TTL/CMOS-Logic Compatible
- ◆ -84dB Crosstalk (1MHz)
- ◆ -72dB Off-Isolation (1MHz)
- ♦ Low Power Consumption: 0.5nW (typ)
- ♦ Rail-to-Rail Signal Handling

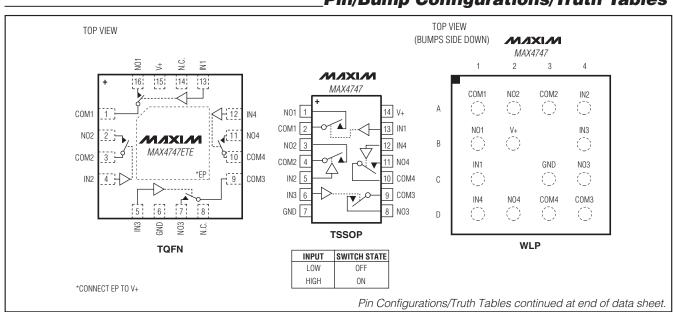
Ordering Information

PART	TEMP RANGE	PIN-/BUMP- PACKAGE
MAX4747EUD+	-40°C to +85°C	14 TSSOP
MAX4747ETE+	-40°C to +85°C	16 Thin QFN-EP*
MAX4747EWE+T	-40°C to +85°C	16 WLP

^{*}EP = Exposed pad.

Ordering Information continued at end of data sheet.

Pin/Bump Configurations/Truth Tables



MIXIM

Maxim Integrated Products 1

⁺Denotes a lead(Pb)-free/RoHS-compliant package.

T = Tape and reel.

ABSOLUTE MAXIMUM RATINGS

(All voltages referenced to GND.)
V+0.3V to +12V
IN_, COM_, NO_, NC_ (Note 1)0.3V to (V+ + 0.3V)
Continuous Current (any pin)±10mA
Peak Current (any pin, pulsed at 1ms, 10% duty cycle)±20mA
Continuous Power Dissipation (T _A = +70°C)
14-Pin TSSOP (derate 9.1mW/°C above +70°C)727mW
16-Pin Thin QFN (derate 16.9mW/°C above +70°C)1349mW
16-Bump WLP (derate 7.3mW/°C above +70°C)589mW

Operating Temperature Range	40°C to +85°C
Storage Temperature Range	65°C to +150°C
Maximum Junction Temperature	+150°C
Bump Temperature (soldering)	
Infrared (15s)	+220°C
Vapor Phase (60s)	+215°C
Lead Temperature (soldering, 10s)	+300°C
Soldering Temperature (reflow)	+260°C

Note 1: Signals on IN_, NO_, NC_, or COM_ exceeding V+ or GND are clamped by internal diodes. Limit forward-diode current to maximum current rating.

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 in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS—Single +3V Supply

 $(V+ = +3V \pm 10\%, V_{IH} = +2.0V, V_{IL} = +0.8V, T_A = T_{MIN}$ to T_{MAX} , unless otherwise noted. Typical values are at $V+ = +3V, T_A = +25$ °C.) (Notes 3. 4)

PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS	
ANALOG SWITCH								
Analog Signal Range	V _{COM} _, V _{NO} _, V _{NC} _			0		V+	V	
		V 0.7\/ la a 5ma A	+25°C		17	50		
On-Resistance	Ron	$V+ = +2.7V, I_{COM} = 5mA,$ V_{NO} or $V_{NC} = +1.5V$	T _{MIN} to T _{MAX}			60	Ω	
On-Resistance Matching		V	+25°C		0.2	3.5		
Between Channels (Notes 5, 6)	ΔR _{ON}	$V+ = +2.7V, I_{COM} = 5mA,$ V_{NO} or $V_{NC} = +1.5V$	T _{MIN} to T _{MAX}			4.5	Ω	
On Desistance Flateres	R _{FLAT} (ON)	V+ = +2.7V, I _{COM} _ = 5mA, V _{NO} _ or V _{NC} _ = +1V, +1.5V, +2V	+25°C		2.7	9		
On-Resistance Flatness (Note 7)			T _{MIN} to T _{MAX}			11	Ω	
NONO Off II Oursel		V+ = +3.6V,	+25°C	-0.1		+0.1		
NO_ or NC_ Off-Leakage Current (Note 8)	INO_(OFF), INC_(OFF)	V _{COM} = +0.3V, +3V, V _{NO} or V _{NC} = +3V, +0.3V	T _{MIN} to T _{MAX}	-2		+2	nA	
COM Off Lookage Current		V+ = +3.6V,	+25°C	-0.1		+0.1		
COM_ Off-Leakage Current (Note 8)	$V_{COM_} = +0.3V, +3V, V_{NO_} = +0.3V, +3V, V_{NO_} = +3V, +0.3V$		T _{MIN} to T _{MAX}	-2		+2	nA	
COM_ On-Leakage Current		V+ = +3.6V, VCOM_ = +0.3V, +3.0V,	+25°C	-0.2		+0.2		
(Note 8)	ICOM_(ON)	V _{NO_} or V _{NC_} = +0.3V, +3V, or unconnected	T _{MIN} to T _{MAX}	-4		+4	nA	

2 ______*MIXI/*M

ELECTRICAL CHARACTERISTICS—Single +3V Supply (continued)

 $(V+ = +3V \pm 10\%, V_{IH} = +2.0V, V_{IL} = +0.8V, T_A = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted.}$ Typical values are at $V+ = +3V, T_A = +25^{\circ}C.)$ (Notes 3, 4)

PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS
DYNAMIC	•						
			+25°C		57	150	
Turn-On Time	ton	V_{NO} or V_{NC} = +1.5V, R_L = 300 Ω , C_L = 35pF, Figure 2	T _{MIN} to			170	ns
			+25°C		24	60	
Turn-Off Time	toff	V_{NO} or V_{NC} = +1.5V, R_L = 300 Ω , C_L = 35pF, Figure 2	T _{MIN} to			70	ns
Break-Before-Make			+25°C		33		
(MAX4749/MAX4750 Only) (Note 8)	tBBM	V_{NO} or V_{NC} = +1.5V, R_L = 300 Ω , C_L = 35pF, Figure 3	T _{MIN} to	1			ns
Charge Injection	Q	$V_{GEN} = 0V$, $R_{GEN} = 0\Omega$, $C_L = 1.0nF$, Figure 4 $+25^{\circ}C$			7		рС
On-Channel -3dB Bandwidth	BW	Signal = 0dBm, 50Ω in and out $+25$ °C			250		MHz
Off-Isolation (Note 9)	V _{ISO}	$f = 1MHz$, $V_{NO} = 1V_{RMS}$, $R_L = 50\Omega$, $C_L = 5pF$, Figure 5	+25°C		-72		dB
Crosstalk (Note 10)	VCT	$f = 1MHz$, $V_{NO} = 1V_{RMS}$, $R_L = 50\Omega$, $C_L = 5pF$, Figure 6	+25°C		84		dB
NO_ or NC_ Off-Capacitance	Coff	f = 1MHz, Figure 7	+25°C		20		рF
COM_ Off-Capacitance	CCOM_(OFF)	f = 1MHz, Figure 7	+25°C		20		рF
COM_ On-Capacitance	CCOM_(ON)	f = 1MHz, Figure 7	+25°C		40		рF
LOGIC INPUT							
Input Logic High	VIH			1.4			V
Input Logic Low	V _I L					0.8	V
Input Leakage Current	I _{IN}	$V_{IN} = 0V \text{ or } V+$		-1	+0.005	+1	μΑ
POWER SUPPLY			·		·		
Power-Supply Range	V+			2		11	V
Positive Supply Current	I+	$V+ = +5.5V$, $V_{IN} = 0V$ or $V+$, all switches on or off			0.0001	1	μΑ

ELECTRICAL CHARACTERISTICS—Single +5V Supply

 $(V+ = +5V \pm 10\%, V_{IH} = +2.0V, V_{IL} = +0.8V, T_A = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted.}$ Typical values are at $V+ = +5V, T_A = +25^{\circ}C.$) (Notes 3, 4)

PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS	
ANALOG SWITCH				I.			l	
Analog Signal Range	V _{COM_} , V _{NO_} , V _{NC_}			0		V+	V	
		V+ = +4.5V,	+25°C		8.2	25		
On-Resistance	RON	$I_{COM} = 5mA$, V_{NO} or $V_{NC} = +3.0V$	T _{MIN} to			30	Ω	
On-Resistance Matching			+25°C		0.1	3		
Between Channels (Notes 5, 6)	ΔR _{ON}	$V+ = +4.5V$, $I_{COM} = 5mA$, V_{NO} or $V_{NC} = +3.0V$	T _{MIN} to			4	Ω	
0.5			+25°C		2.2	5		
On-Resistance Flatness (Notes 7)	R _{FL} AT(ON)	V+ = +4.5V, I _{COM} _ = 5mA, V _{NO} _ or V _{NC} _ = +1V, +2V, +3V	T _{MIN} to			7	Ω	
		V+ = +5.5V,	+25°C	-0.1		+0.1		
NO_ or NC_ Off-Leakage Current (Note 8)	INO_(OFF), INC_(OFF)	V _{COM} = +1V, +4.5V, V _{NO} or V _{NC} = +4.5V, +1V	T _{MIN} to	-2		+2	nA	
	ICOM_(OFF)	V+ = +5.5V, VCOM_ = +1V, +4.5V, VNO_ or VNC_ = +4.5V, +1V	+25°C	-0.1		+0.1	nA	
COM_ Off-Leakage Current (Note 8)			T _{MIN} to	-2		+2		
COM_ On-Leakage Current	ICOM_(ON)	V+ = +5.5V, $V_{COM} = +1V, +4.5V,$ V_{NO} or $V_{NC} = +1V, +4.5V,$ or unconnected	+25°C	-0.2		+0.2	- nA	
(Note 8)			T _{MIN} to	-4		+4		
DYNAMIC								
		V_{NO} or $V_{NC} = +3.0V$,	+25°C		36	85		
Turn-On Time	ton	$R_L = 300\Omega$, $C_L = 35pF$, Figure 2	T _{MIN} to T _{MAX}			95	ns	
		V_{NO} or $V_{NC} = +3.0V$,	+25°C		19	45		
Turn-Off Time	toff	$R_L = 300\Omega$, $C_L = 35pF$, Figure 2	T _{MIN} to			55	ns	
Break-Before-Make		V_{NO} or $V_{NC} = +3.0V$,	+25°C		14		1	
(MAX4749/MAX4750 Only) (Note 8)	t _{BBM}	$R_L = 300\Omega$, $C_L = 35pF$, Figure 3	T _{MIN} to	1			ns	
Charge Injection	Q	$V_{GEN} = 0V$, $R_{GEN} = 0\Omega$, $C_L = 1.0$ nF, Figure 4	+25°C		9		рС	
On-Channel -3dB Bandwidth	BW	Signal = 0dBm, 50Ω in and out	+25°C		250		MHz	
Off-Isolation (Note 9)	V _{ISO}	$f = 1MHz$, $V_{NO}=1V_{RMS}$, $R_L = 50\Omega$, $C_L = 5pF$, Figure 5	+25°C		-72		dB	

4 ______*NIXI/*M

ELECTRICAL CHARACTERISTICS—Single +5V Supply (continued)

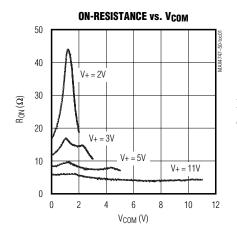
 $(V+ = +5V \pm 10\%, V_{IH} = +2.0V, V_{IL} = +0.8V, T_A = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted. Typical values are at } V+ = +5V, T_A = +25^{\circ}C.)$ (Notes 3, 4)

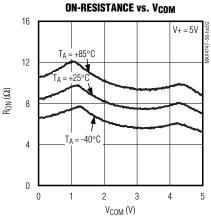
PARAMETER	SYMBOL	CONDITIONS	TA	MIN	TYP	MAX	UNITS
Crosstalk (Note 10)	VCT	$f = 1MHz$, $V_{NO} = 1V_{RMS}$, $R_L = 50\Omega$, $C_L = 5pF$, Figure 6	+25°C		-84		dB
NO_ or NC_ Off-Capacitance	Coff	f = 1MHz, Figure 7	+25°C		20		рF
COM_ Off-Capacitance	CCOM_(OFF)	f = 1MHz, Figure 7	+25°C		20		pF
COM_ On-Capacitance	CCOM_(ON)	f = 1MHz, Figure 7	+25°C		40		pF
LOGIC INPUT							
Input Logic High	VIH			2			V
Input Logic Low	VIL					0.8	V
Input Leakage Current	liN	V _{IN} _ = 0V or V+		-1	+0.005	+1	μΑ
POWER SUPPLY							
Power-Supply Range	V+			2		11	V
Positive Supply Current	l+	$V+ = +5.5V$, $V_{IN} = 0V$ or $V+$, all switches on or off			0.0001	1	μΑ

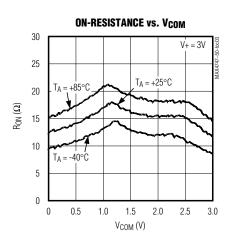
- **Note 3:** The algebraic convention, where the most negative value is a minimum and the most positive value a maximum, is used in this data sheet.
- **Note 4:** WLP parts are 100% tested at +25°C only, and are guaranteed by design over temperature. TSSOP and Thin QFN parts are 100% tested at +85°C and guaranteed by design over temperature.
- **Note 5:** $\Delta R_{ON} = R_{ON(MAX)} R_{ON(MIN)}$.
- Note 6: WLP and Thin QFN on-resistance matching between channels is guaranteed by design.
- **Note 7:** Flatness is defined as the difference between the maximum and minimum value of on-resistance as measured over the specified analog signal range.
- Note 8: Guaranteed by design.
- **Note 9:** Off-isolation = $20 \log_{10} (V_{NO} / V_{COM})$, V_{NO} = output, V_{COM} = input to off switch.
- Note 10: Between any two switches.

_Typical Operating Characteristics

 $(T_A = +25^{\circ}C, \text{ unless otherwise noted.})$

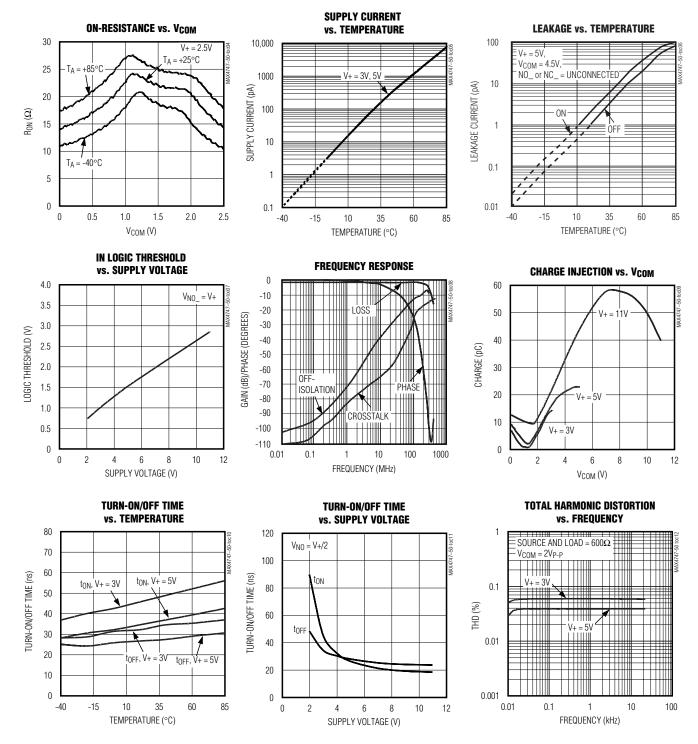






Typical Operating Characteristics (continued)

 $(T_A = +25^{\circ}C, \text{ unless otherwise noted.})$



_Pin Description—TSSOP

	F	PIN		NAME	FUNCTION
MAX4747	MAX4748	MAX4749	MAX4750	NAME	FUNCTION
1, 3, 8, 11	_	_	_	NO1-NO4	Analog-Switch Normally Open Terminals
_	1, 3, 8, 11	_	_	NC1-NC4	Analog-Switch Normally Closed Terminals
_	_	1, 8	_	NO1, NO3	Analog-Switch Normally Open Terminals
_	_		1, 8	NO1, NO2	Analog-Switch Normally Open Terminals
_	_	_	4, 11	NC1, NC2	Analog-Switch Normally Closed Terminals
_	_	3, 11	_	NC2, NC4	Analog-Switch Normally Closed Terminals
2, 4, 9, 10	2, 4, 9, 10	2, 4, 9, 10	_	COM1-COM4	Analog-Switch Common Terminal
_	_	_	2, 9	COM1, COM2	Analog-Switch Common Terminal
13, 5, 6, 12	13, 5, 6, 12	13, 5, 6, 12	_	IN1-IN4	Logic-Control Digital Input
_	_	_	13, 6	IN1, IN2	Logic-Control Digital Input
7	7	7	7	GND	Ground. Connect to digital ground.
14	14	14	14	V+	Positive Analog and Digital Supply Voltage Input. Internally connected to substrate.
_	_	_	3, 5, 10, 12	N.C.	No Connection. Not internally connected.

Bump Description—WLP

	Р	IN		NAME	FUNCTION
MAX4747	MAX4748	MAX4749	MAX4750	NAIVIL	PONCTION
B1, A2, C4, D2	_	_	_	NO1-NO4	Analog-Switch Normally Open Terminals
_	B1, A2, C4, D2		_	NC1-NC4	Analog-Switch Normally Closed Terminals
_	_	B1, C4	_	NO1, NO3	Analog-Switch Normally Open Terminals
_	_	_	B1, C4	NO1, NO2	Analog-Switch Normally Open Terminals
_			A3, D2	NC1, NC2	Analog-Switch Normally Closed Terminals
_	_	A2, D2	_	NC2, NC4	Analog-Switch Normally Closed Terminals
A1, A3, D4, D3	A1, A3, D4, D3	A1, A3, D4, D3	_	COM1-COM4	Analog-Switch Common Terminal
_	_	_	A1, D4	COM1, COM2	Analog-Switch Common Terminal
C1, A4, B4, D1	C1, A4, B4, D1	C1, A4, B4, D1	_	IN1-IN4	Logic-Control Digital Input
_	_	_	C1, B4	IN1, IN2	Logic-Control Digital Input
C3	C3	C3	C3	GND	Ground. Connect to digital ground.
B2	B2	B2	B2	V+	Positive Analog and Digital Supply Voltage Input. Internally connected to substrate.
_	_	_	A2, A4, D1, D3	N.C.	No Connection. Not internally connected.

Pin Description—TQFN-EP

PIN					FUNCTION	
MAX4747	MAX4748	MAX4749	MAX4750	NAME	FUNCTION	
1, 3	1, 3	1, 3	1, 9	COM1, COM2	Analog-Switch Common Terminals	
2	_	_	7	NO2	Analog-Switch Normally Open Terminal	
4, 13	4, 13	4, 13	5, 13	IN2, IN1	Logic-Control Digital Inputs	
5, 12	5, 12	5, 12	_	IN3, IN4	Logic-Control Digital Inputs	
6	6	6	6	GND	Ground. Connect to digital ground.	
7	_	7	_	NO3	Analog-Switch Normally Open Terminal	
8, 14	8, 14	8, 14	2, 4, 8, 10, 12, 14	N.C.	No Connection. Not internally connected.	
9, 10	9, 10	9, 10	_	COM3, COM4	Analog-Switch Common Terminals	
11	_	_	_	NO4	Analog-Switch Normally Open Terminal	
15	15	15	15	V+	Positive Supply-Voltage Input	
16	_	16	16	NO1	Analog-Switch Normally Open Terminal	
_	2	2	11	NC2	Analog-Switch Normally Closed Terminal	
_	7	_	_	NC3	Analog-Switch Normally Closed Terminal	
_	11	11	_	NC4	Analog-Switch Normally Closed Terminal	
_	16	_	3	NC1	Analog-Switch Normally Closed Terminal	
_	_	_	_	EP	Exposed Pad. Connect EP to V+.	

8 ______ **/\!X\!/\!**

Applications Information

Operating Considerations for High-Voltage Supply

The MAX4747–MAX4750 operate to +11V with some precautions. The absolute maximum rating for V+ is +12V (referenced to GND). When operating near this region, bypass V+ with a minimum $0.1\mu F$ capacitor to ground as close to the IC as possible.

Logic Levels

The MAX4747–MAX4750 are TTL compatible when powered from a single +3V supply. When powered from other supply voltages, the logic inputs should be driven rail-to-rail. For example, with a +11V supply, IN_ should be driven low to 0V and high to 11V. With a +3.3V supply, IN_ should be driven low to 0V and high to 3.3V. Driving IN_ rail-to-rail minimizes power consumption.

Analog Signal Levels

Analog signals that range over the entire supply voltage (GND to V+) pass with very little change in R_{ON} (see the *Typical Operating Characteristics*). The bidirectional switches allow NO_, NC_, and COM_ connections to be used as either inputs or outputs.

Power-Supply Sequencing and Overvoltage Protection

CAUTION: Do not exceed the absolute maximum ratings. Stresses beyond the listed ratings can cause permanent damage to the devices.

Proper power-supply sequencing is recommended for all CMOS devices. Always apply V+ before applying analog signals, especially if the analog signal is not current limited. If this sequencing is not possible, and if the analog inputs are not current limited to < 20mA, add small-signal diode D1 as shown in Figure 1. If the analog signal can dip below GND, add D2. Adding protection diodes reduces the analog signal range to a diode drop (about 0.7V) below V+ (for D1), and to a diode drop above ground (for D2). Leakage is unaffected by adding the diodes. On-resistance increases slightly at low supply voltages. Maximum supply voltage (V+) must not exceed +11V.

Test Circuits/Timing Diagrams

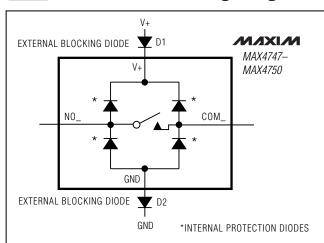


Figure 1. Overvoltage Protection Using External Blocking Diodes

Adding protection diodes causes the logic thresholds to be shifted relative to the power-supply rails. The most significant shift occurs when using low supply voltages (+5V or less). With a +5V supply, TTL compatibility is not guaranteed when protection diodes are added. Driving IN_ and IN_ all the way to the supply rails (i.e., to a diode drop higher than the V+ pin, or to a diode drop lower than the GND pin) is always acceptable.

Protection diodes D1 and D2 also protect against some overvoltage situations. Using the circuit in Figure 1, no damage results if the supply voltage is below the absolute maximum rating (+12V) and if a fault voltage up to the absolute maximum rating (V+ + 0.3V) is applied to an analog signal terminal.

_WLP Applications Information

For the latest application details on WLP construction, dimensions, tape carrier information, PC board techniques, bump-pad layout, and recommended reflow temperature profile, as well as the latest information on reliability testing results, refer to the Application Note 1891: Wafer-Level Packaging (WLP) and its Applications on Maxim's web site at www.maxim-ic.com/wlp.

Test Circuits/Timing Diagrams (continued)

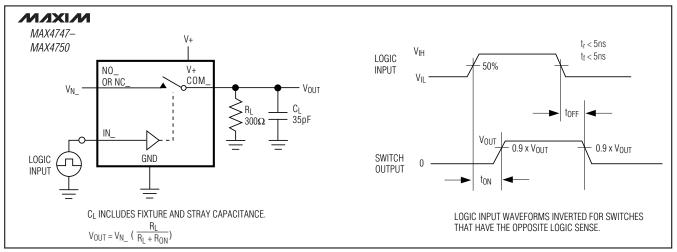


Figure 2. Switching Time

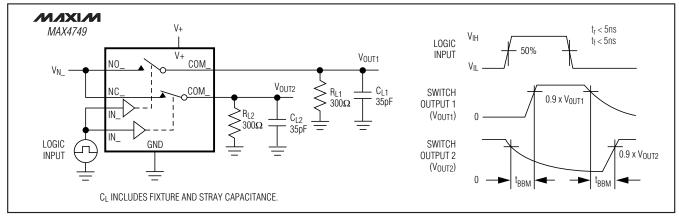


Figure 3. Break-Before-Make Interval

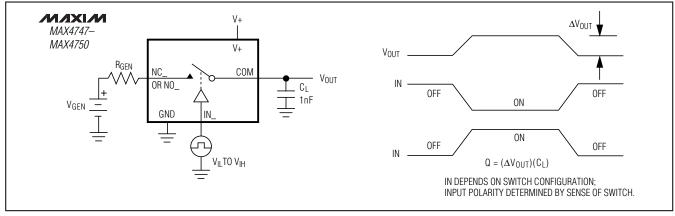


Figure 4. Charge Injection

10 ///XI/V

Test Circuits/Timing Diagrams (continued)

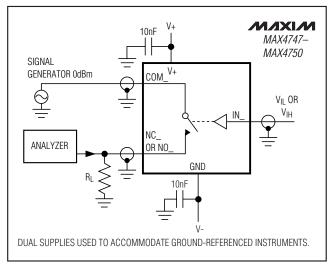


Figure 5. Off-Isolation/On-Channel Bandwidth

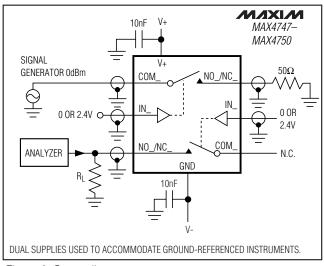


Figure 6. Crosstalk

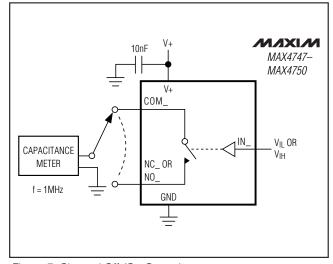


Figure 7. Channel Off-/On-Capacitance

Ordering Information (continued)

PART	TEMP RANGE	PIN-/BUMP- PACKAGE
MAX4748EUD+	-40°C to +85°C	14 TSSOP
MAX4748ETE+	-40°C to +85°C	16 Thin QFN-EP*
MAX4748EWE+T	-40°C to +85°C	16 WLP
MAX4749EUD+	-40°C to +85°C	14 TSSOP
MAX4749ETE+	-40°C to +85°C	16 Thin QFN-EP*
MAX4749EWE+T**	-40°C to +85°C	16 WLP
MAX4750EUD+	-40°C to +85°C	14 TSSOP
MAX4750ETE+	-40°C to +85°C	16 Thin QFN-EP*
MAX4750EWE+T**	-40°C to +85°C	16 WLP

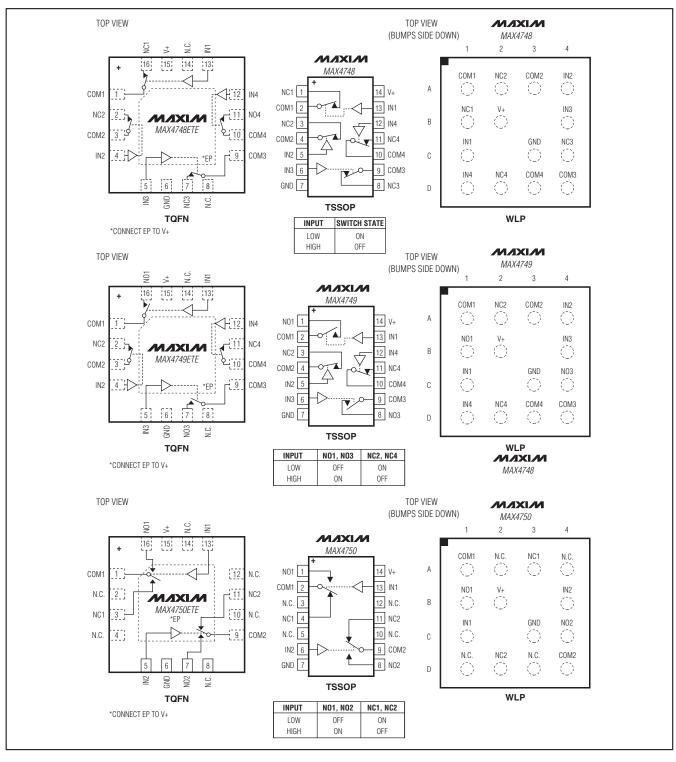
^{*}EP = Exposed pad.

⁺Denotes a lead(Pb)-free/RoHS-compliant package.

^{**}Future products. Contact factory for availability.

T = Tape and reel.

Pin/Bump Configurations/Truth Tables (continued)



Chip Information

Package Information

For the latest package outline information and land patterns (footprints), go to www.maxim-ic.com/packages. Note that a "+", "#", or "-" in the package code indicates RoHS status only. Package drawings may show a different suffix character, but the drawing pertains to the package regardless of RoHS status.

PACKAGE TYPE	PACKAGE CODE	OUTLINE NO.	LAND PATTERN NO.
14 TSSOP	U14+1	<u>21-0066</u>	<u>90-0113</u>
16 TQFN	T1644+4	<u>21-0139</u>	90-0070
16 WLP	W162D2+1	21-0200	Refer to Application Note 1891

MIXIM

PROCESS: CMOS

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
2	12/06	Various changes	1-15
3	1/12	Updated UCSP to WLP packaging, corrected pin configuration, added lead-free packaging	1-9, 11-13

Maxim cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Maxim product. No circuit patent licenses are implied. Maxim reserves the right to change the circuitry and specifications without notice at any time. The parametric values (min and max limits) shown in the Electrical Characteristics table are guaranteed. Other parametric values quoted in this data sheet are provided for guidance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Analogue Switch ICs category:

Click to view products by Maxim manufacturer:

Other Similar products are found below:

FSA3051TMX NLAS4684FCTCG NLAS5223BLMNR2G NLX2G66DMUTCG 425541DB 425528R 099044FB NLAS5123MNR2G
PI5A4157CEX NLAS4717EPFCT1G PI5A3167CCEX SLAS3158MNR2G PI5A392AQE PI5A4157ZUEX PI5A3166TAEX FSA634UCX
XS3A1T3157GMX TC4066BP(N,F) DG302BDJ-E3 PI5A100QEX HV2605FG-G HV2301FG-G RS2117YUTQK10 RS2118YUTQK10
RS22227XUTQK10 ADG452BRZ-REEL7 MAX4066ESD+ MAX391CPE+ MAX4730EXT+T MAX314CPE+ BU4066BCFV-E2
MAX313CPE+ BU4S66G2-TR NLASB3157MTR2G TS3A4751PWR NLAST4599DFT2G NLAST4599DTT1G DG300BDJ-E3
DG2503DB-T2-GE1 TC4W53FU(TE12L,F) 74HC2G66DC.125 DG3257DN-T1-GE4 ADG619BRMZ-REEL ADG1611BRUZ-REEL7
DG2535EDQ-T1-GE3 LTC201ACN#PBF 74LV4066DB,118 ISL43410IUZ FSA2275AUMX DIO1500WL12