

Precision 8-Channel/Dual 4-Channel CMOS Analog Multiplexers

DESCRIPTION

The DG508B is an 8-channel single-ended analog multiplexer designed to connect one of eight inputs to a common output as determined by a 3-bit binary address (A0, A1, A2). The DG509B is a dual 4-channel differential analog multiplexer designed to connect one of four differential inputs to a common dual output as determined by its 2-bit binary address (A0, A1). Break-before-make switching action protects against momentary crosstalk between adjacent channels.

An on channel conducts current equally well in both directions. In the off state each channel blocks voltages up to the power supply rails. An enable (EN) function allows the user to reset the multiplexer/demultiplexer to all switches off for stacking several devices. All control inputs, addresses (Ax) and enable (EN) are TTL compatible over the full specified operating temperature range.

The DG508B and DG509B are fabricated on an enhanced SG-II CMOS process that achieves improved performance on: reduced charge injection, lower device leakage, and minimized parasitic capacitance.

As the DG508, DG509 has a long history in the industry with many suppliers offering copies - and in some cases improved variations - with the best in class improvements, the Vishay Siliconix new version of the DG508B, DG509B are the superior alternatives to what is currently available.

Applications for the DG508B, DG509B include high speed and high precision data acquisition, audio signal switching and routing, ATE systems, and avionics. High performance and low power dissipation make them ideal for battery operated and remote instrumentation applications.

The DG508B and DG509B have the absolute maximum voltage rating extended to 44 V. Additionally, single supply operation is also allowed. An epitaxial layer prevents latch-up.

The DG508B and DG509B are both available in 16-lead SOIC, TSSOP, PDIP, and miniQFN (1.8 mm x 2.6 mm) package options with extended temperature range of - 40 °C to + 125 °C.

For more information, refer to Vishay Siliconix DG508B, DG509B evaluation board note.

FEATURES

- Operate with single or dual power supply
- V+ to V- analog signal swing range
- 44 V power supply maximum rating
- Extended operate temperature range:
- 40 °C to + 125 °C
- Low leakage typically < 3 pA
- Low charge injection - $Q_{INJ} = 2$ pC
- Low power - $I_{SUPPLY} = 10$ μ A
- TTL compatible logic
- > 250 mA latch up current per JESD78
- Available in SOIC16, TSSOP16, PDIP, and miniQFN16 packages
- Superior alternative to:
- ADG508A, DG508A, HI-508
- ADG509A, DG509A, HI-509
- **Compliant to RoHS Directive 2002/95/EC**
- **Halogen-free according to IEC 61249-2-21 definition**



RoHS
COMPLIANT
HALOGEN
FREE

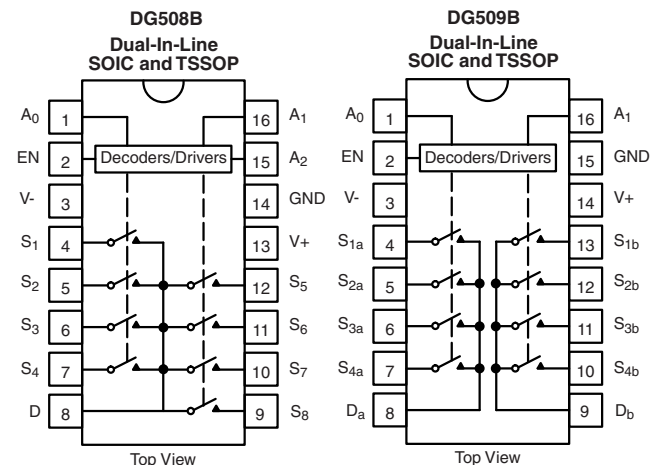
BENEFITS

- Reduced switching errors
- Reduced glitching
- Improved data throughput
- Reduced power consumption
- Increased ruggedness
- Wide supply ranges (± 5 V to ± 20 V)

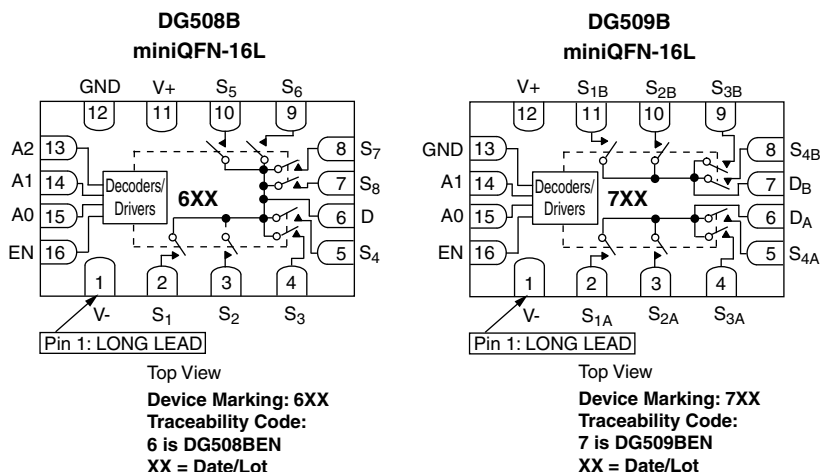
APPLICATIONS

- Data acquisition systems
- Audio and video signal routing
- ATE systems
- Medical instrumentation

FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION



FUNCTIONAL BLOCK DIAGRAM AND PIN CONFIGURATION



TRUTH TABLES AND ORDERING INFORMATION

TRUTH TABLE (DG508B)				
A ₂	A ₁	A ₀	EN	On Switch
X	X	X	0	None
0	0	0	1	1
0	0	1	1	2
0	1	0	1	3
0	1	1	1	4
1	0	0	1	5
1	0	1	1	6
1	1	0	1	7
1	1	1	1	8

TRUTH TABLE (DG509B)			
A ₁	A ₀	EN	On Switch
X	X	0	None
0	0	1	1
0	1	1	2
1	0	1	3
1	1	1	4

Logic "0" = $V_{IL} \leq 0.8\text{ V}$
 Logic "1" = $V_{IH} \geq 2.0\text{ V}$
 X = Do not care

ORDERING INFORMATION (DG508B)		
Temp. Range	Package	Part Number
- 40 °C to 125 °C ^a	16-Pin SOIC	DG508BEY-T1-E3
	16-Pin TSSOP	DG508BEQ-T1-E3
	16-Pin PDIP	DG508BEJ-E3
	16-Pin MiniQFN	DG508BEN-T1-GE4

ORDERING INFORMATION (DG509B)		
Temp. Range	Package	Part Number
- 40 °C to 125 °C ^a	16-Pin SOIC	DG509BEY-T1-E3
	16-Pin TSSOP	DG509BEQ-T1-E3
	16-Pin PDIP	DG509BEJ-E3
	16-Pin MiniQFN	DG509BEN-T1-GE4

Notes:

a. - 40 °C to 85 °C datasheet limits apply.

**ABSOLUTE MAXIMUM RATINGS**

Parameter		Limit	Unit
Voltages Referenced to V-	V+	44	V
	GND	25	
Digital Inputs ^a , V _S , V _D		(V-) - 2 to (V+) + 2 or 20 mA, whichever occurs first	
Current (Any terminal)		30	mA
Peak Current, S or D (Pulsed at 1 ms, 10 % duty cycle max.)		100	
Storage Temperature	(EY, EQ, EJ, EN suffix)	- 65 to 150	°C
Power Dissipation (Packages) ^b	16-Pin Narrow SOIC ^c	600	mW
	16-Pin TSSOP ^d	450	
	16-Pin PDIP ^e	510	
	16-Pin miniQFN ^f	525	
Thermal Resistance (θ_{JA}) ^b	16-Pin Narrow SOIC ^c	125	°C/W
	16-Pin TSSOP ^d	178	
	16-Pin PDIP ^e	159.6	
	16-Pin miniQFN ^f	152	

Notes:

- a. Signals on S_X, D_X or I_{NX} exceeding V+ or V- will be clamped by internal diodes. Limit forward diode current to maximum current ratings.
b. All leads soldered or welded to PC board.
c. Derate 8.0 mW/°C above 70 °C.
d. Derate 5.6 mW/°C above 70 °C.
e. Derate 6.3 mW/°C above 70 °C.
f. Derate 6.6 mW/°C above 70 °C.

SPECIFICATIONS

Parameter	Symbol	Test Conditions Unless Otherwise Specified V ₊ = 15 V, V ₋ = - 15 V (± 10 %) V _{AX} , V _{EN} = 2.0 V, 0.8 V ^a		Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit	
						Min. ^d	Max. ^d	Min. ^d	Max. ^d		
Analog Switch											
Analog Signal Range ^e	V _{ANALOG}			Full		- 15	15	- 15	15	V	
Drain-Source On-Resistance	R _{DS(on)}	V _D = ± 10 V, I _S = - 1 mA		Room	180		380		380	Ω	
				Full			480		450		
R _{DS(on)} Matching	ΔR _{DS(on)}	V _D = ± 10 V		Room	10						
Source Off Leakage Current	I _{S(off)}	V _D = ± 10 V V _S = ± 10 V V _{EN} = 0 V		Room		- 1	1	- 1	1	nA	
				Full		- 50	50	- 50	50		
Drain Off Leakage Current	I _{D(off)}			Room		- 1	1	- 1	1		
				Full		- 100	100	- 100	100		
				Room		- 1	1	- 1	1		
				Full		- 50	50	- 50	50		
Drain On Leakage Current	I _{D(on)}			DG508B	Room		- 1	1	- 1		1
					Full		- 100	100	- 100		100
		DG509B	Room		- 1	1	- 1	1			
			Full		- 50	50	- 50	50			
Digital Control											
Logic High Input Voltage	V _{INH}			Full		2.0		2.0		V	
Logic Low Input Voltage	V _{INL}			Full			0.8		0.8		
Logic High Input Current	I _{IH}	V _{AX} , V _{EN} = 2.0 V		Full		- 1	1	- 1	1	μA	
Logic Low Input Current	I _{IL}	V _{AX} , V _{EN} = 0.8 V		Full		- 1	1	- 1	1		
Logic Input Capacitance ^e	C _{in}	f = 1 MHz		Room	4					pF	

SPECIFICATIONS									
Parameter	Symbol	Test Conditions Unless Otherwise Specified V+ = 15 V, V- = - 15 V (± 10 %) VAX, VEN = 2.0 V, 0.8 V ^a	Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit
					Min. ^d	Max. ^d	Min. ^d	Max. ^d	
Dynamic Characteristics									
Transition Time	t _{TRANS}	VS ₁ = + 10 V/- 10 V, VS ₈ = - 10 V/+ 10 V, R _L = 1 MΩ, C _L = 35 pF	Room	145		300		300	ns
			Full			400		400	
Break-Before-Make Interval	t _{OPEN}	VS ₁ = VS ₈ = 5.0 V, C _L = 35 pF, R _L = 1 kΩ	Room	37	15		15		
			Full		1		1		
Enable Turn-On Time	t _{ON(EN)}	VS ₁ = 5 V, VS ₂ to VS ₈ = 0 V, R _L = 1 kΩ, C _L = 35 pF	Room	100		250		250	
			Full			340		340	
Enable Turn-Off Time	t _{OFF(EN)}		Room	90		240		240	
			Full			300		300	
Charge Injection ^e	Q _{INJ}	C _L = 1 nF, R _{GEN} = 0 Ω, V _{GEN} = 0 V	Full	2					pC
Off Isolation ^e	OIRR	C _L = 5 pF, R _L = 50 Ω, f = 1 MHz	Room	- 81					dB
Crosstalk ^e	XTALK		Room	- 88					
- 3 dB Bandwidth ^e	BW	R _L = 50 Ω	Room	250					MHz
Total Harmonic Distortion ^e	THD	R _L = 10 kΩ, 5 V _{rms} f = 20 Hz to 20 kHz	Room	0.04					%
Source Off Capacitance ^e	CS(off)	f = 1 MHz	Room	3					pF
Drain Off Capacitance ^e	CD(off)		DG508B	Room	13				
			DG509B	Room	8				
Drain On Capacitance ^e	CD(on)		DG508B	Room	18				
			DG509B	Room	11				
Power Supply									
Positive Supply Current	I+	VAX, VEN = 0 V or V+	Room	0.01		0.5		0.5	mA
			Full			0.6		0.6	
Negative Supply Current	I-			Full		- 200		- 200	

SPECIFICATIONS (Single Supply 12 V)										
Parameter	Symbol	Test Conditions Unless Otherwise Specified V+ = 12 V, V- = 0 V (± 10 %) VAX, VEN = 2.0 V, 0.8 V ^a	Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit	
					Min. ^d	Max. ^d	Min. ^d	Max. ^d		
Analog Switch										
Analog Signal Range ^e	VANALOG		Full		0	12	0	12	V	
On-Resistance	RDS(on)	VD = 10 V/0 V, IS = 1 mA	Room	265		500		500	Ω	
			Full			650		600		
RDS(on) Matching	ΔRDS(on)		Room	10						
Switch Off Leakage Current	IS(off)	V+ = 12 V, V- = 0 V VD = 0 V/10 V, VS = 10 V/0 V	Room		- 1	1	- 1	1	nA	
			Full		- 50	- 50	- 50	50		
	DG508B		Room		- 1	1	- 1	1		
			Full		- 100	100	- 100	100		
	ID(off)		DG509B	Room		- 1	1	- 1		1
				Full		- 50	50	- 50		50



SPECIFICATIONS (Single Supply 12 V)										
Parameter	Symbol	Test Conditions Unless Otherwise Specified V+ = 12 V, V- = 0 V (± 10 %) VAX, VEN = 2.0 V, 0.8 V ^a	Temp. ^b	Typ. ^c	- 40 °C to 125 °C		- 40 °C to 85 °C		Unit	
					Min. ^d	Max. ^d	Min. ^d	Max. ^d		
Analog Switch										
Channel On Leakage Current	ID(on)	V+ = 12 V, V- = 0 V VS = VD = 0 V/10 V	DG508B	Room		- 1	1	- 1	1	nA
				Full		- 100	100	- 100	100	
			DG509B	Room		- 1	1	- 1	1	
				Full		- 50	50	- 50	50	
Digital Control										
Logic High Input Voltage	VINH		Full		2.0		2.0		V	
Logic Low Input Voltage	VINL		Full			0.8		0.8		
Logic High Input Current	I _{IH}	VAX, VEN = 2.0 V	Full		- 1	1	- 1	1	µA	
Logic Low Input Current	I _{IL}	VAX, VEN = 0.8 V	Full		- 1	1	- 1	1		
Logic Input Capacitance ^e	Cin	f = 1 MHz	Room	4					pF	
Dynamic Characteristics										
Transition Time	tTRANS	VS ₁ = 10 V/0 V, VS ₈ = 0 V/10 V, RL = 1 MΩ, CL = 35 pF	Room	165		400		400	ns	
			Full			550		500		
Break-Before-Make Interval	tOPEN	VS ₁ = VS ₈ = 5 V, CL = 35 pF, RL = 1 kΩ	Room	37	15		15			
			Full		1		1			
Enable Turn-On Time	tON(EN)	VS ₁ = 5 V, VS ₂ to VS ₈ = 0 V, RL = 1 kΩ, CL = 35 pF	Room	125		300		300		
			Full			550		425		
Enable Turn-Off Time	tOFF(EN)		Room	75		250		250		
			Full			350		300		
Charge Injection ^e	QINJ		CL = 1 nF, RGEN = 0 Ω, VGEN = 0 V	Full	2.5					pC
Off Isolation ^e	OIRR		CL = 5 pF, RL = 50 Ω f = 1 MHz	Room	- 80					dB
Crosstalk ^e	XTALK	Room		- 88						
- 3 dB Bandwidth ^e	BW	RL = 50 Ω	Room	200					MHz	
Total Harmonic Distortion ^e	THD	RL = 10 kΩ, 5 VRMS, f = 20 Hz to 20 kHz	Room	0.26					%	
Source Off Capacitance ^e	CS(off)	f = 1 MHz	Room	2					pF	
Drain Off Capacitance ^e	CD(off)			DG508B	13					
				DG509B	8					
Channel On Capacitance ^e	CD(on)			DG508B	17					
				DG509B	12					
				Power Supply						
Power Supply Current	I+	VAX, VEN = 0 V, or V+		Room	0.01		0.5		0.5	mA
				Full			0.6		0.6	

Notes:

- V_{AX} , V_{EN} = input voltage perform proper function.
- Room = 25 °C, Full = as determined by the operating temperature suffix.
- Typical values are for DESIGN AID ONLY, not guaranteed nor subject to production testing.
- The algebraic convention whereby the most negative value is a minimum and the most positive a maximum, is used in this datasheet.
- Guaranteed by design, not subject to production test.
- $\Delta R_{DS(on)} = R_{DS(on)} \text{ max.} - R_{DS(on)} \text{ min.}$

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.

SCHEMATIC DIAGRAM (Typical Channel)

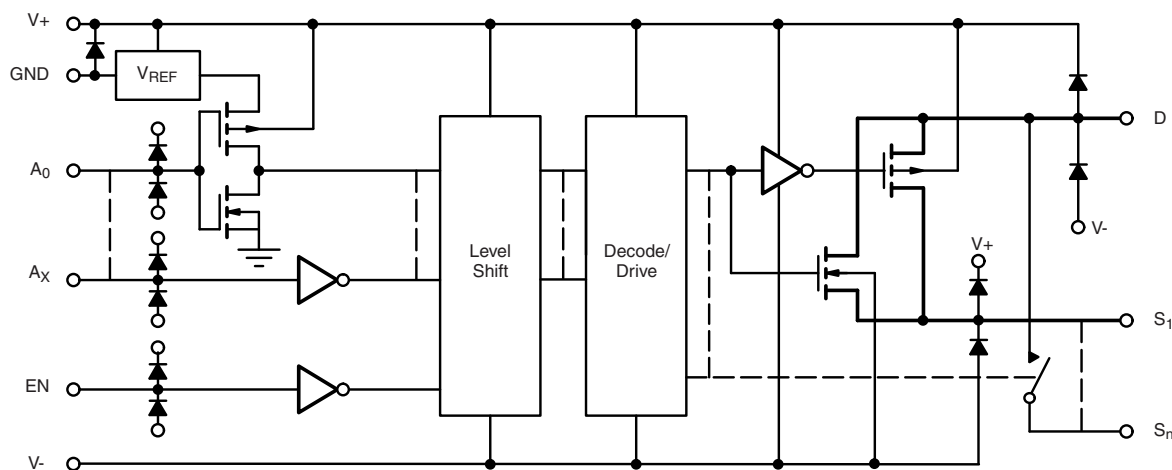
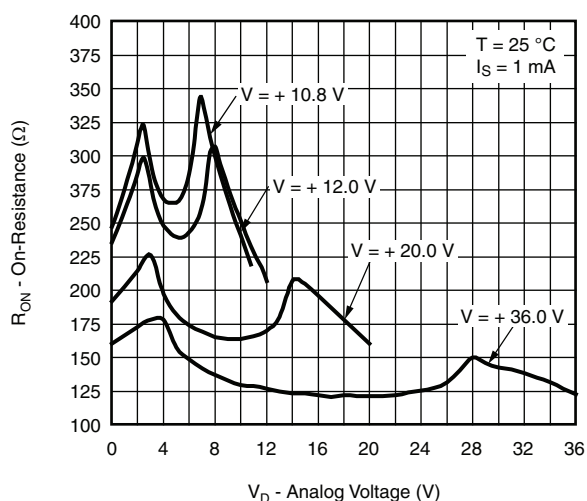
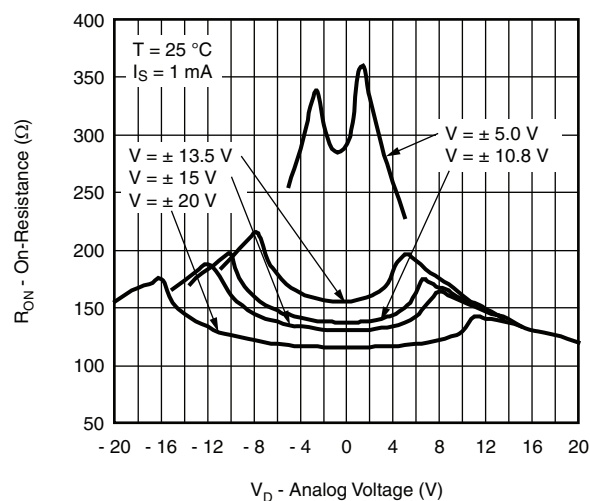


Figure 1.

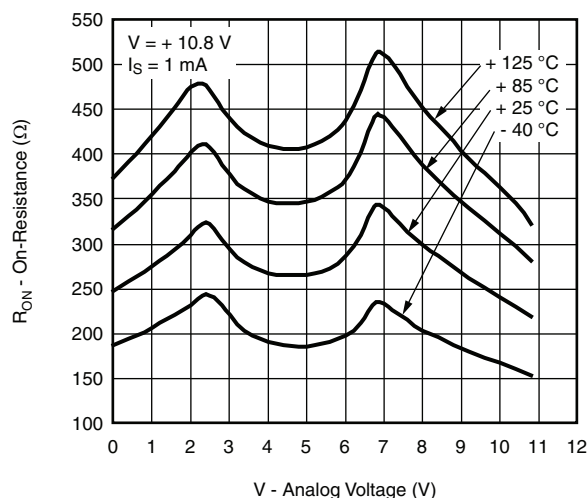
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



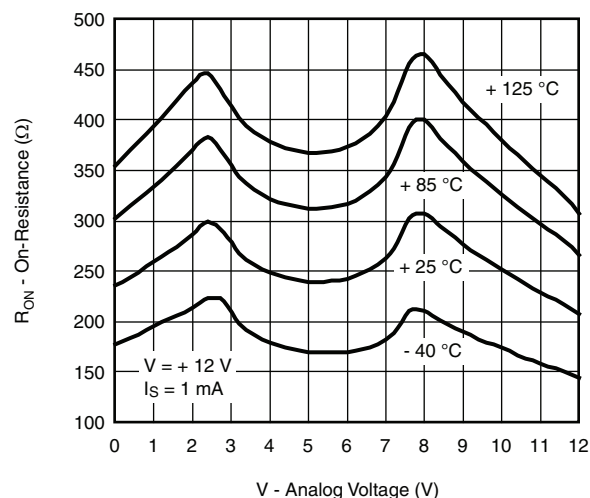
On-Resistance vs. V_D and Single Supply Voltage



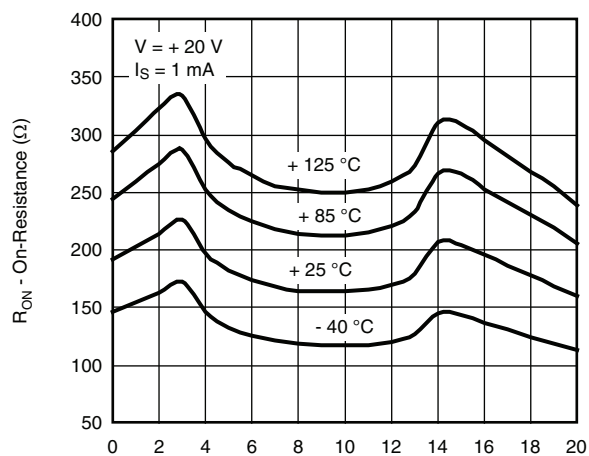
On-Resistance vs. V_D and Dual Supply Voltage



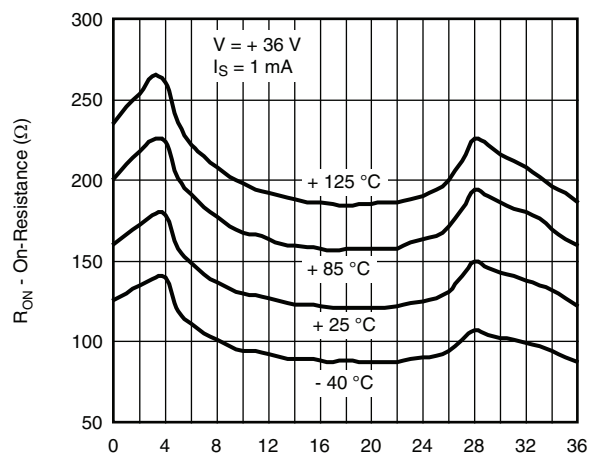
On-Resistance vs. Analog Voltage and Temperature



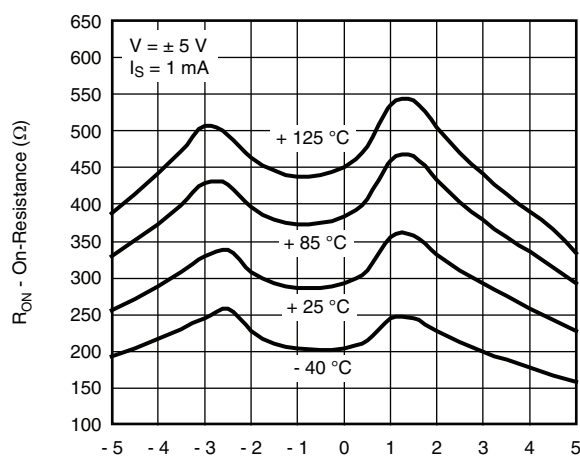
On-Resistance vs. Analog Voltage and Temperature

TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)


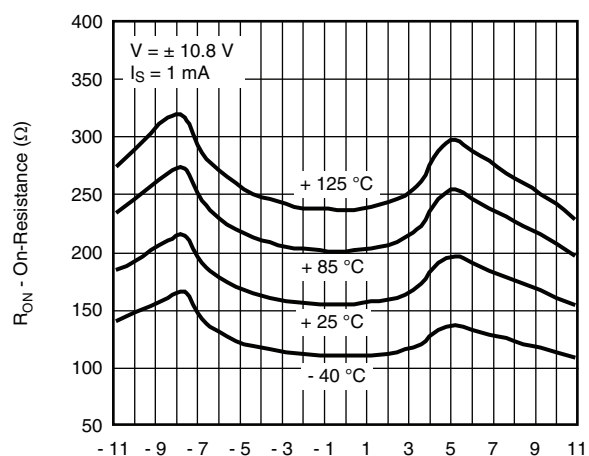
On-Resistance vs. Analog Voltage
and Temperature



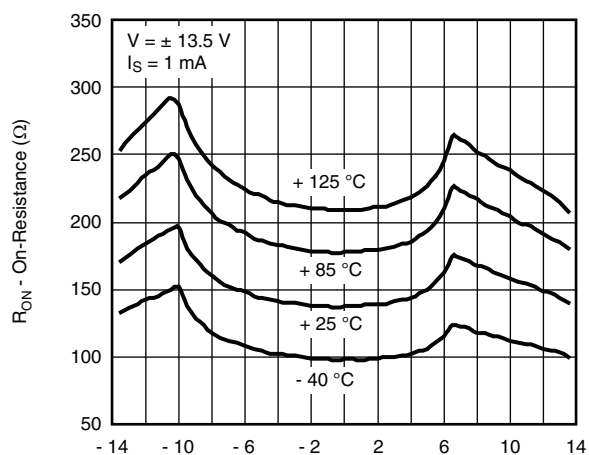
On-Resistance vs. Analog Voltage
and Temperature



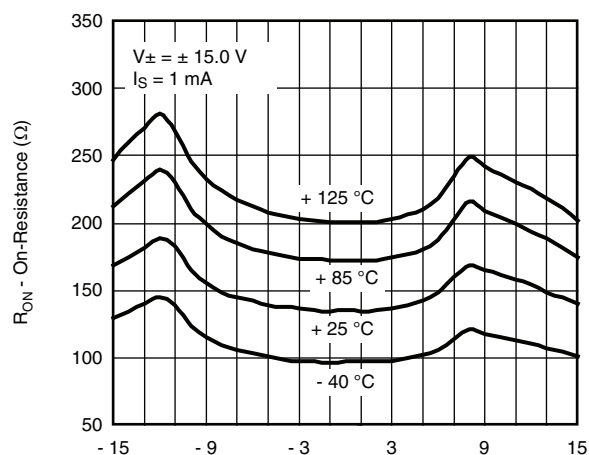
On-Resistance vs. Analog Voltage
and Temperature



On-Resistance vs. Analog Voltage
and Temperature

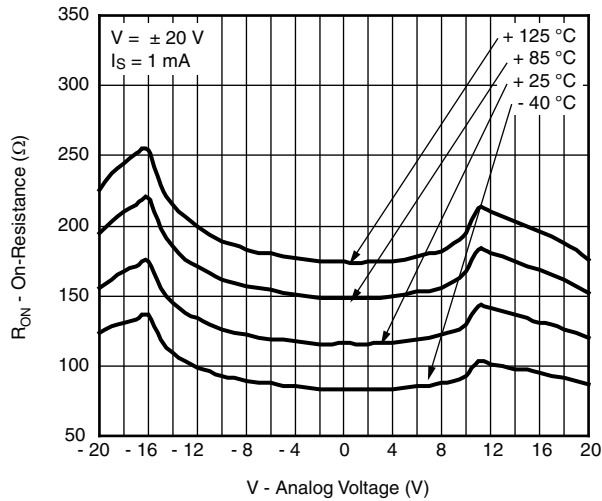


On-Resistance vs. Analog Voltage
and Temperature

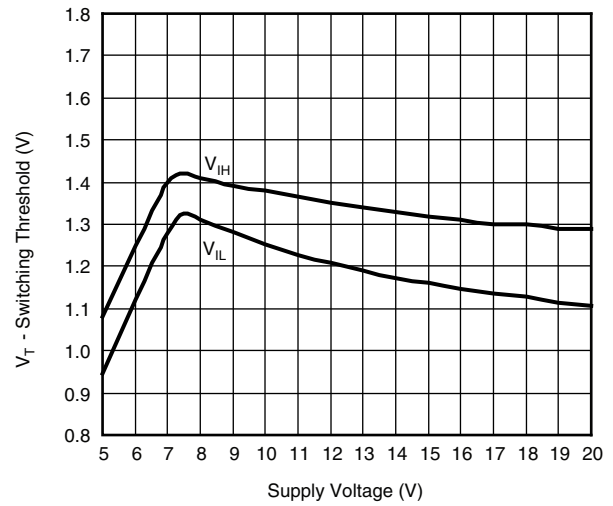


On-Resistance vs. Analog Voltage
and Temperature

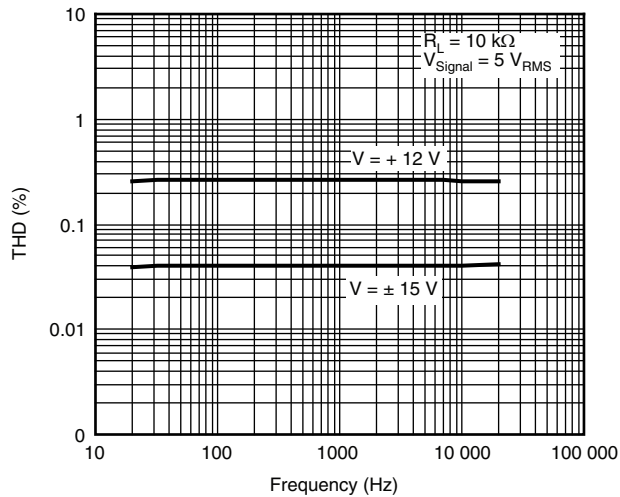
TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



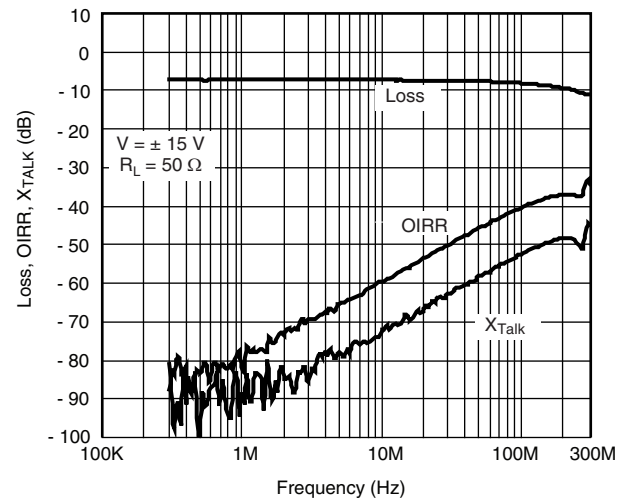
On-Resistance vs. Analog Voltage and Temperature



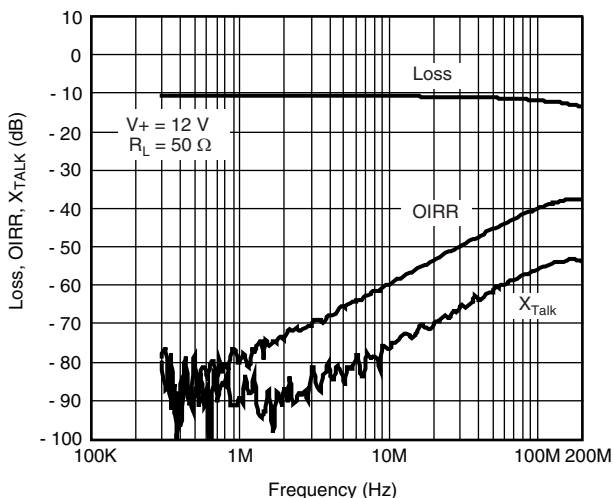
Switching Threshold vs. Supply Voltage



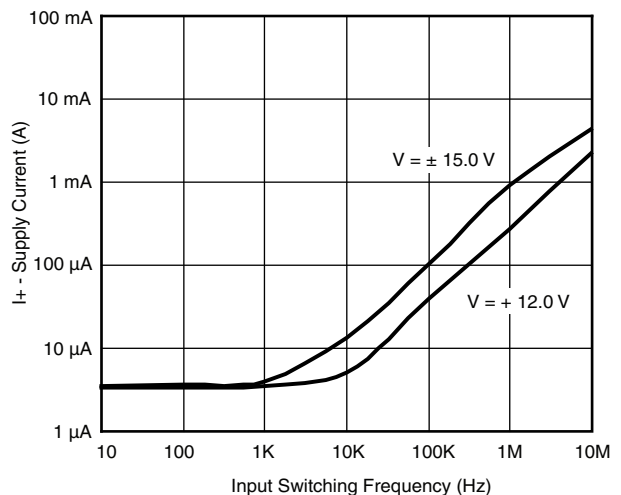
THD vs. Frequency



Insertion Loss, Off-Isolation, Crosstalk vs. Frequency

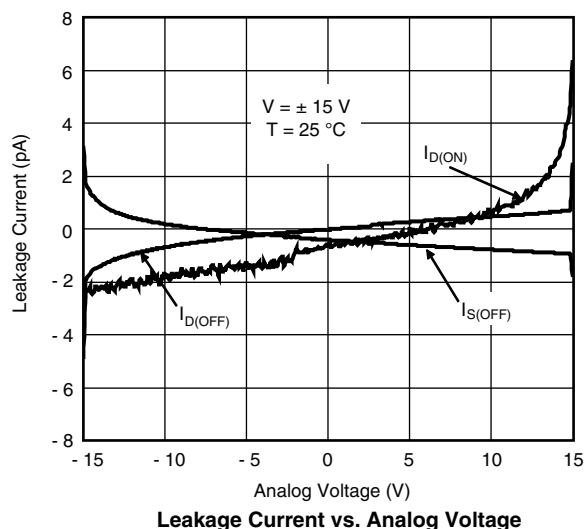
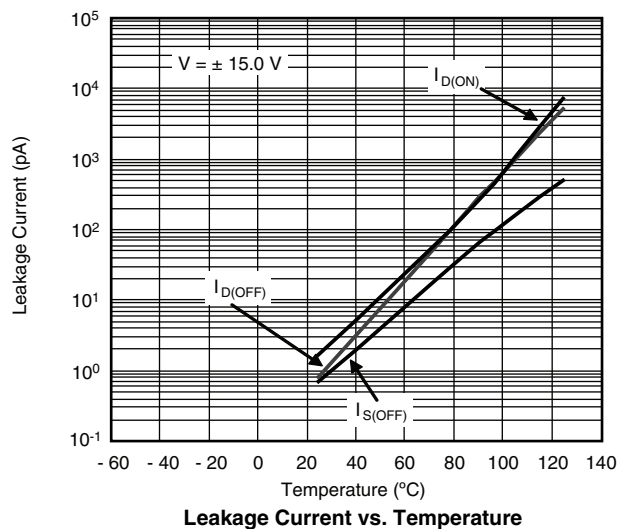
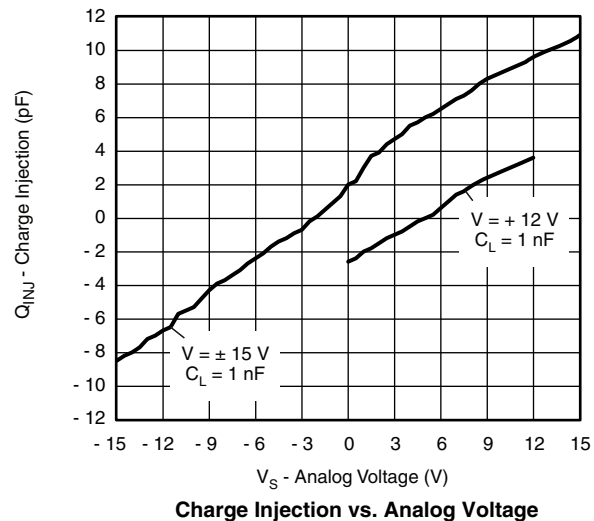
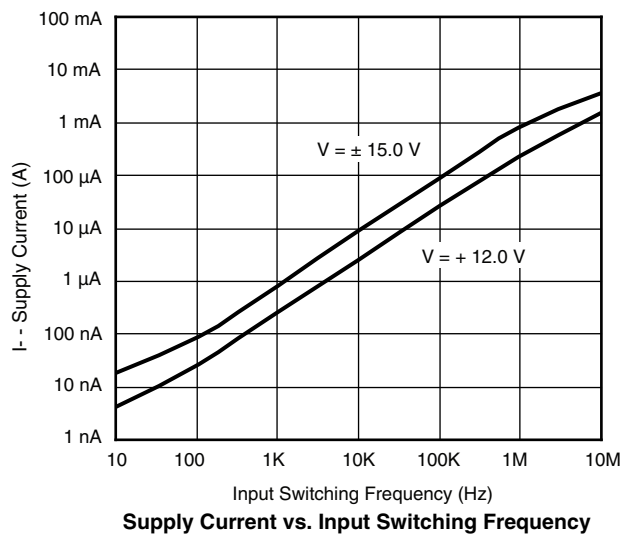


Insertion Loss, Off-Isolation, Crosstalk vs. Frequency



Supply Current vs. Input Switching Frequency

TYPICAL CHARACTERISTICS (25 °C, unless otherwise noted)



TEST CIRCUITS

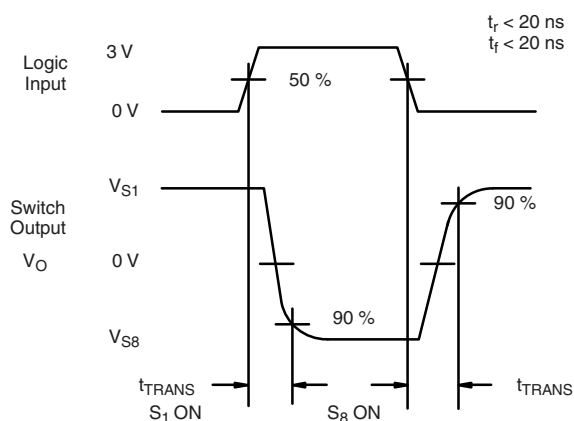
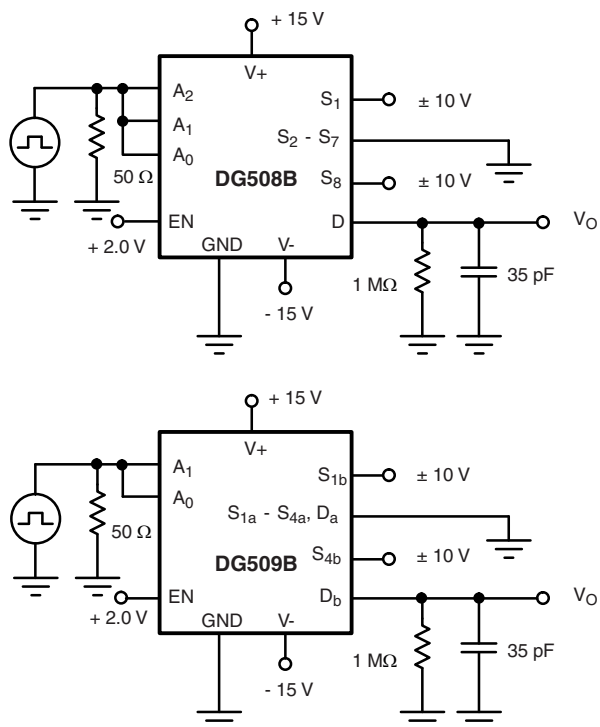


Figure 2. Transition Time

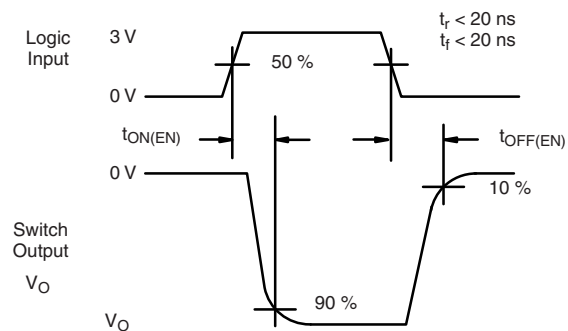
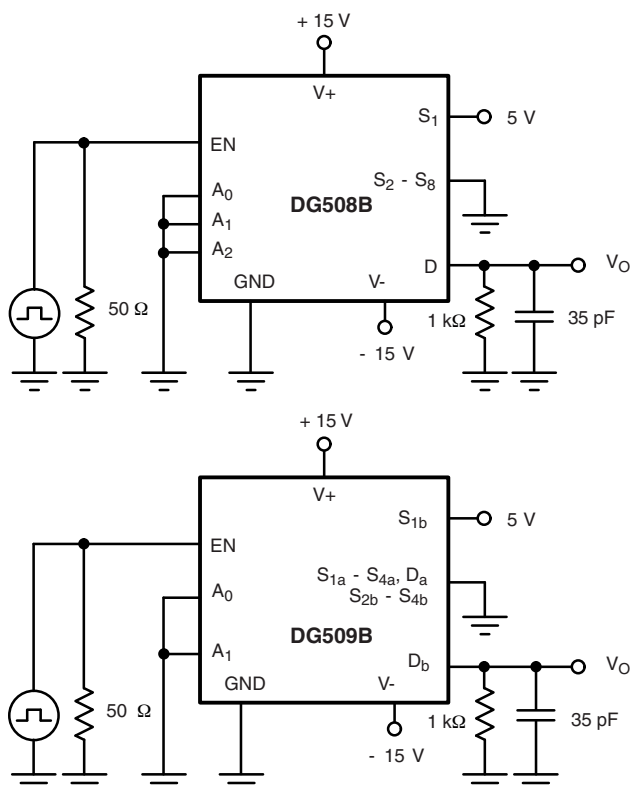


Figure 3. Enable Switching Time

TEST CIRCUITS

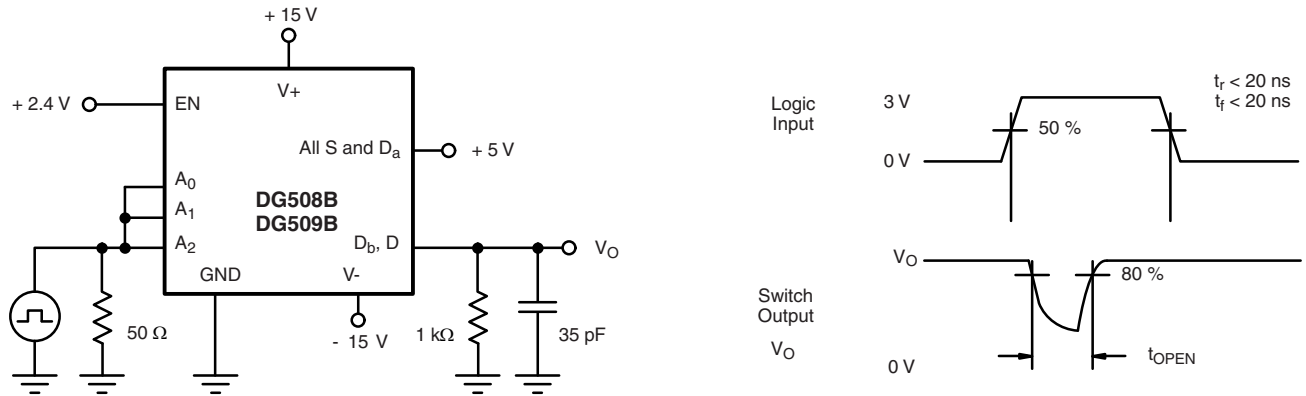


Figure 4. Break-Before-Make Interval

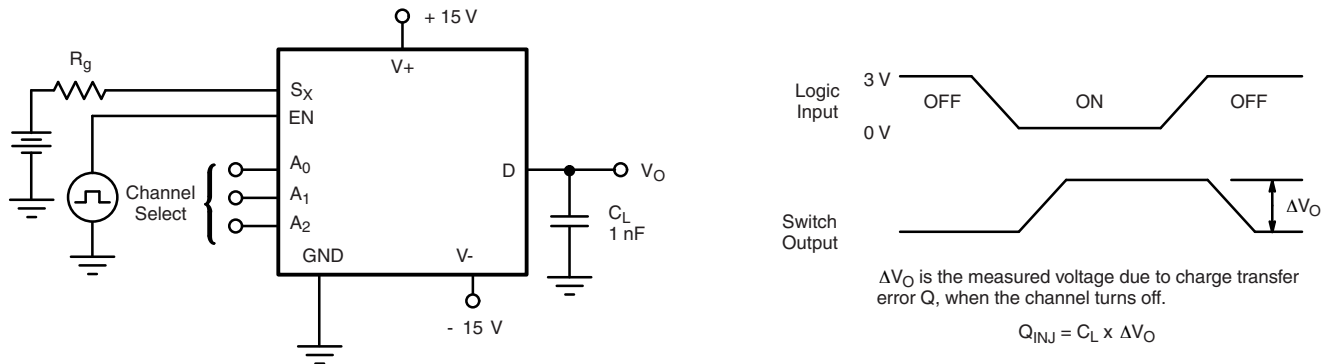


Figure 5. Charge Injection

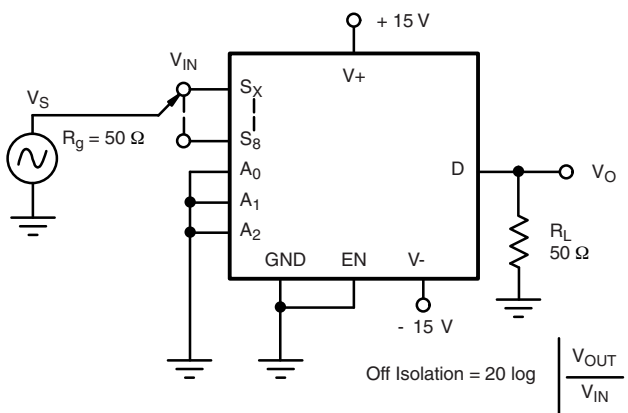


Figure 6. Off Isolation

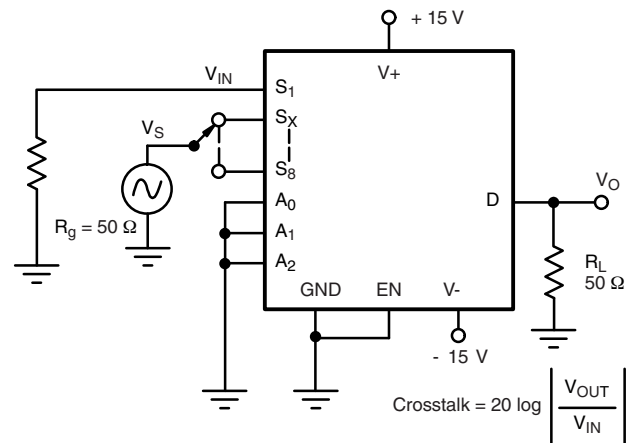


Figure 7. Crosstalk

TEST CIRCUITS

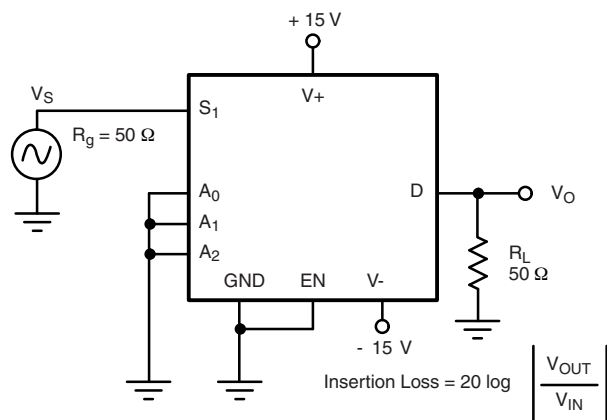


Figure 8. Insertion Loss

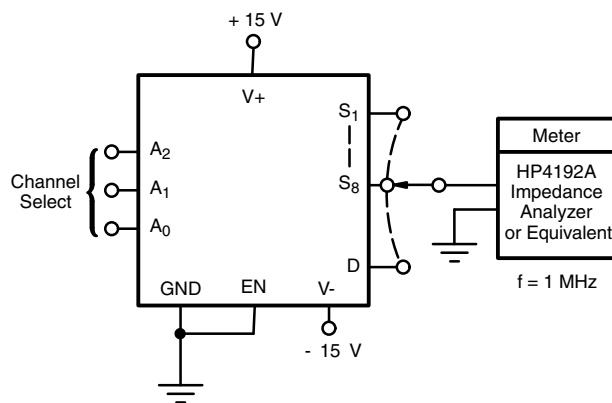


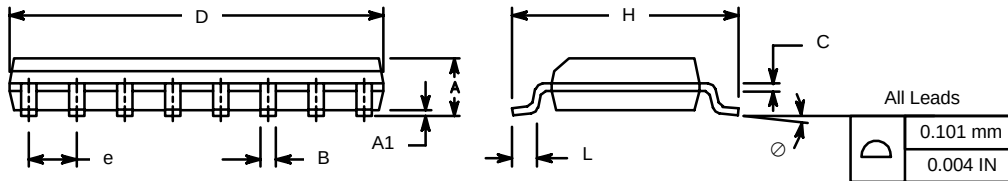
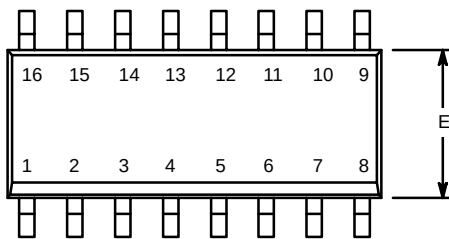
Figure 9. Source Drain Capacitance

Vishay Siliconix maintains worldwide manufacturing capability. Products may be manufactured at one of several qualified locations. Reliability data for Silicon Technology and Package Reliability represent a composite of all qualified locations. For related documents such as package/tape drawings, part marking, and reliability data, see www.vishay.com/ppg?64821.



SOIC (NARROW): 16-LEAD

JEDEC Part Number: MS-012

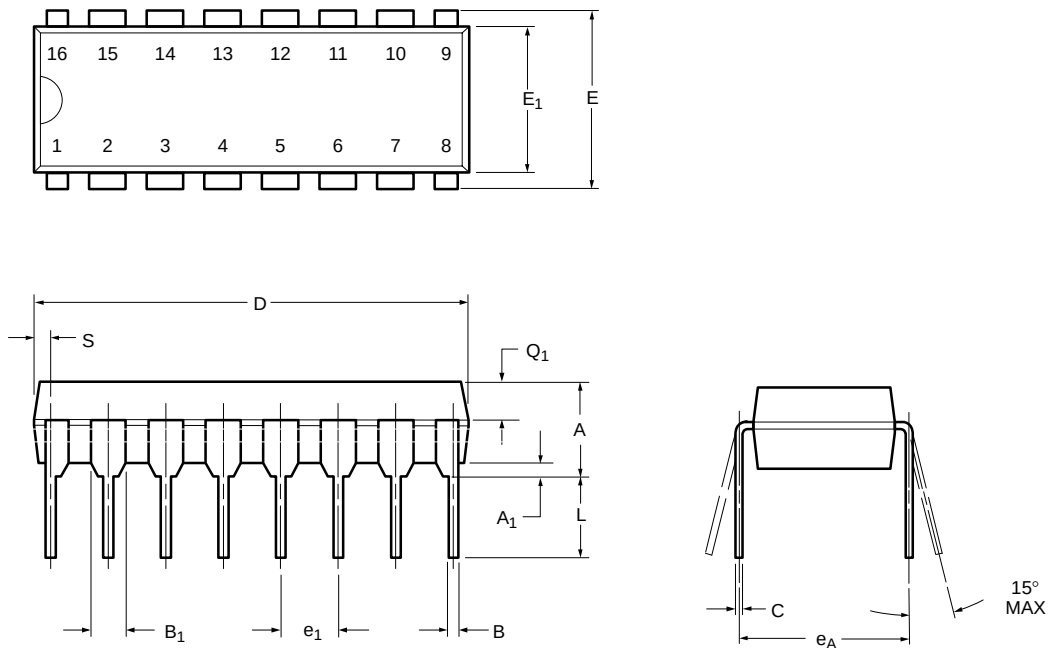


Dim	MILLIMETERS		INCHES	
	Min	Max	Min	Max
A	1.35	1.75	0.053	0.069
A ₁	0.10	0.20	0.004	0.008
B	0.38	0.51	0.015	0.020
C	0.18	0.23	0.007	0.009
D	9.80	10.00	0.385	0.393
E	3.80	4.00	0.149	0.157
e	1.27 BSC		0.050 BSC	
H	5.80	6.20	0.228	0.244
L	0.50	0.93	0.020	0.037
Ø	0°	8°	0°	8°

ECN: S-03946—Rev. F, 09-Jul-01
DWG: 5300

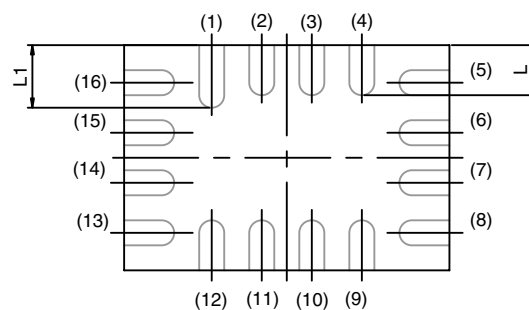
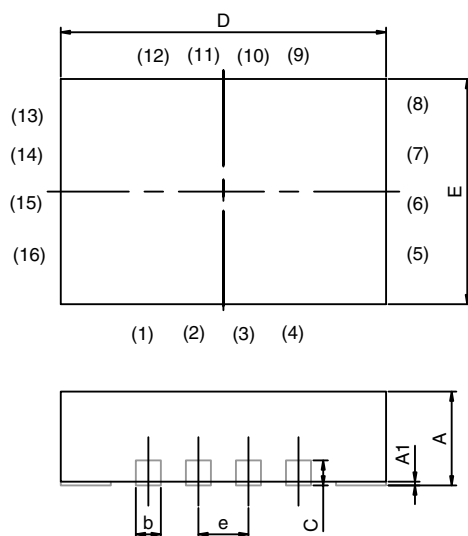


PDIP: 16-LEAD



Dim	MILLIMETERS		INCHES	
	Min	Max	Min	Max
A	3.81	5.08	0.150	0.200
A₁	0.38	1.27	0.015	0.050
B	0.38	0.51	0.015	0.020
B₁	0.89	1.65	0.035	0.065
C	0.20	0.30	0.008	0.012
D	18.93	21.33	0.745	0.840
E	7.62	8.26	0.300	0.325
E₁	5.59	7.11	0.220	0.280
e₁	2.29	2.79	0.090	0.110
e_A	7.37	7.87	0.290	0.310
L	2.79	3.81	0.110	0.150
Q₁	1.27	2.03	0.050	0.080
S	0.38	1.52	.015	0.060
ECN: S-03946—Rev. D, 09-Jul-01 DWG: 5482				

MINI QFN-16L

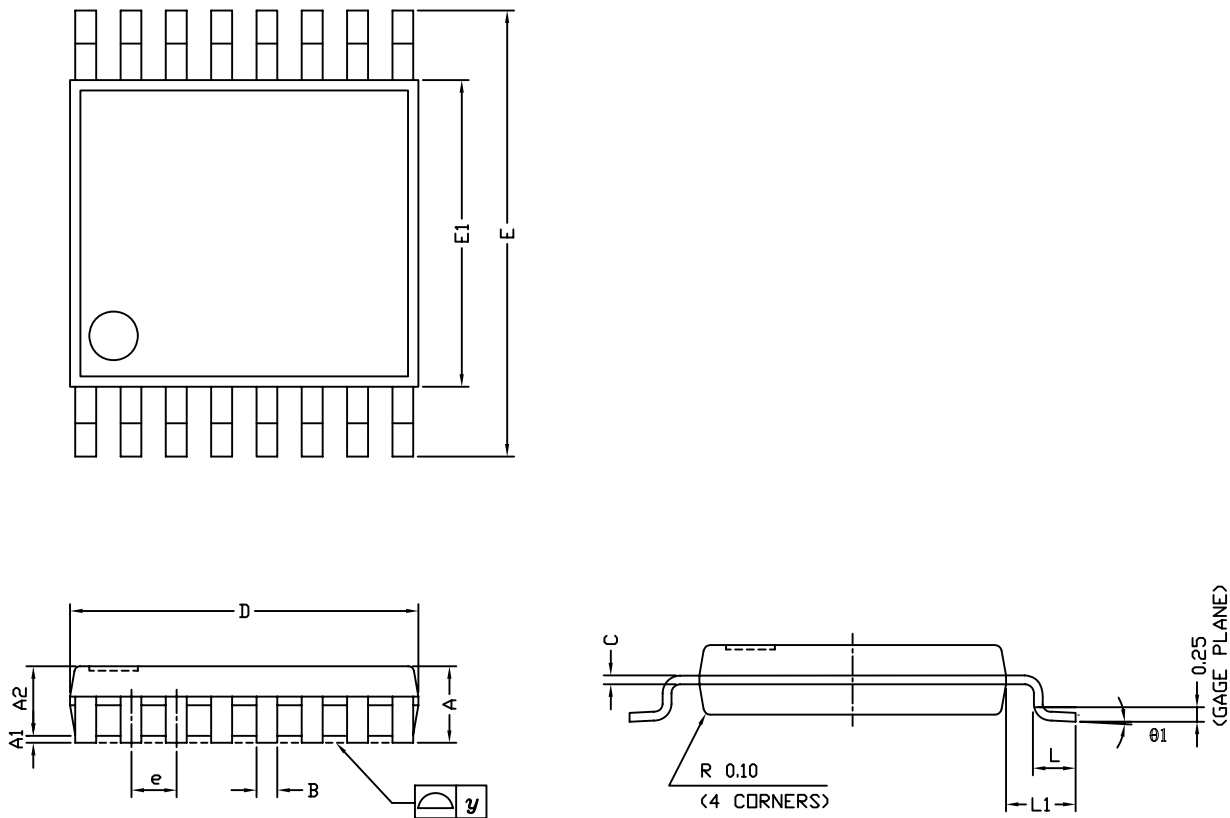


BACK SIDE VIEW

DIM	MILLIMETERS			INCHES		
	MIN.	NAM	MAX.	MIN.	NAM	MAX.
A	0.70	0.75	0.80	0.0275	0.0295	0.0315
A1	0	-	0.05	0	-	0.002
b	0.15	0.20	0.25	0.0059	0.0078	0.0098
C	0.15	0.20	0.25	0.0059	0.0078	0.0098
D	2.60 BSC			0.1023 BSC		
E	1.80 BSC			0.0708 BSC		
e	0.40 BSC			0.0157 BSC		
L	0.35	0.40	0.45	0.0137	0.0157	0.0177
L1	0.45	0.50	0.55	0.0177	0.0196	0.0216

ECN T-06380-Rev. A, 14-Aug-06
DWG: 5954

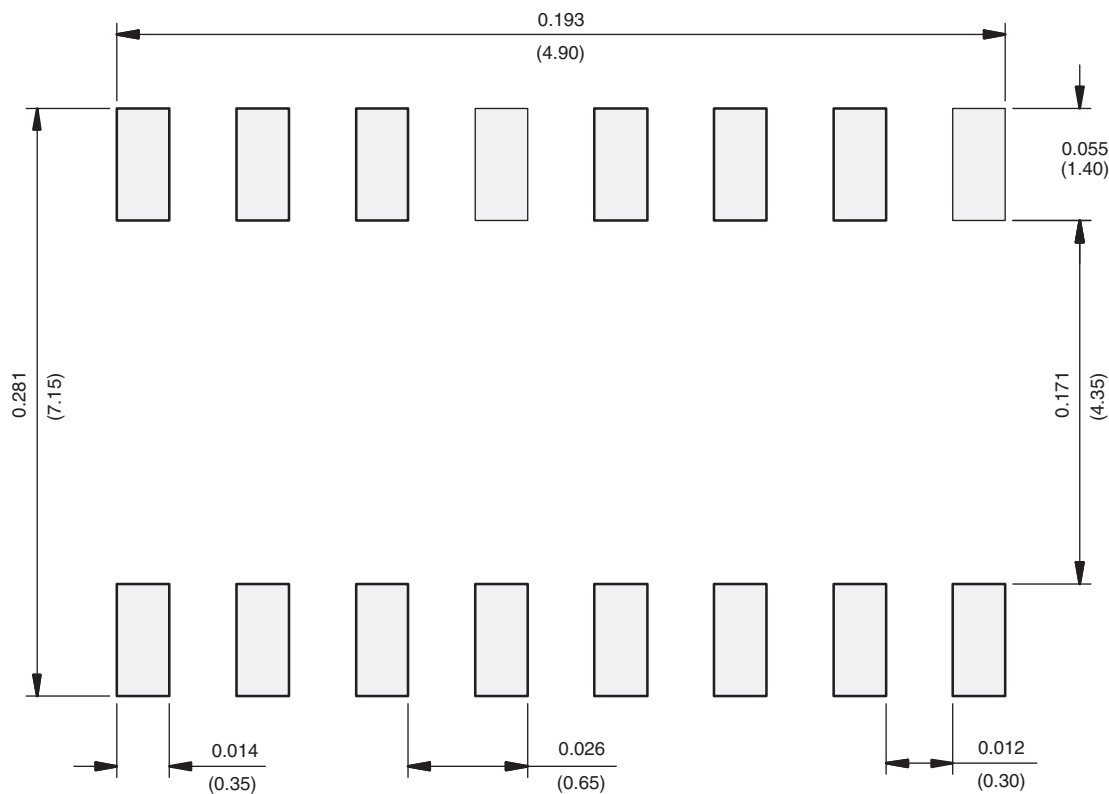
TSSOP: 16-LEAD



Symbols	DIMENSIONS IN MILLIMETERS		
	Min	Nom	Max
A	-	1.10	1.20
A1	0.05	0.10	0.15
A2	-	1.00	1.05
B	0.22	0.28	0.38
C	-	0.127	-
D	4.90	5.00	5.10
E	6.10	6.40	6.70
E1	4.30	4.40	4.50
e	-	0.65	-
L	0.50	0.60	0.70
L1	0.90	1.00	1.10
y	-	-	0.10
θ1	0°	3°	6°
ECN: S-61920-Rev. D, 23-Oct-06			
DWG: 5624			

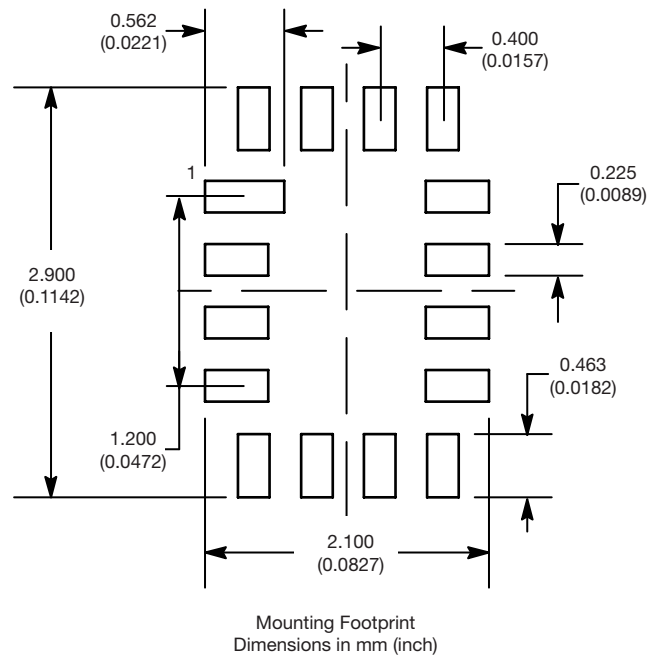


RECOMMENDED MINIMUM PAD FOR TSSOP-16

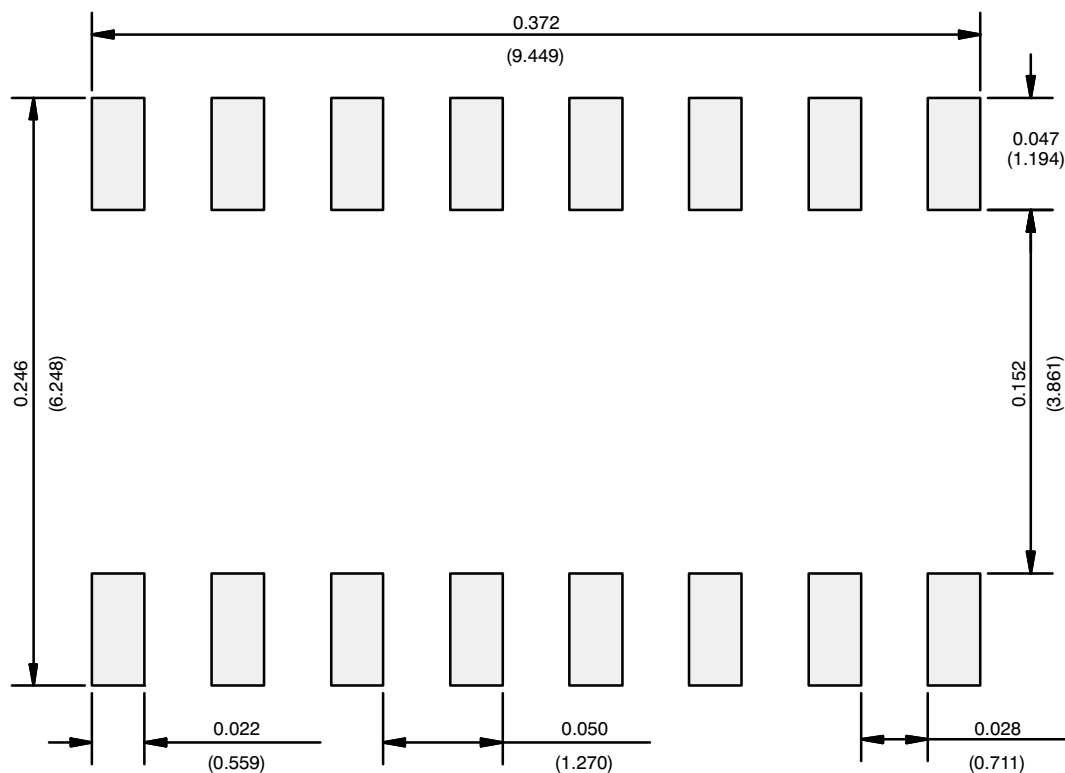


Recommended Minimum Pads
Dimensions in inches (mm)

RECOMMENDED MINIMUM PADS FOR MINI QFN 16L



RECOMMENDED MINIMUM PADS FOR SO-16



Recommended Minimum Pads
Dimensions in Inches/(mm)

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