

General Description

The MC14052 is a dual single-pole quad-throw analog switch (2 × SP4T) suitable for use in analog or digital 4 : 1 multiplexer/ demultiplexer applications. Each switch features four independent

inputs/ outputs (nY0 , nY1 , nY2 and nY3) and a common input/output (nZ) . A digital enable input (\bar{E}) and

two digital select inputs (S0 and S1) are common to both switches. When \bar{E} is HIGH, the switches are turned off. Inputs include clamp diodes. This enables the use of current limiting resistors to interface

Features

- Wide analog input voltage range from - 5 V to + 5 V
- Low ON resistance:
80 Ω (typical) at VCC - VEE = 4 . 5 V
70 Ω (typical) at VCC - VEE = 6 . 0 V
60 Ω (typical) at VCC - VEE = 9 . 0 V
- Logic level translation: to enable 5 V logic to communicate with ± 5 V analog signals
- Typical “break before make” built-in
- Specified from -40° C to + 105° C
- Packaging information: SOP16

Application

- Analog multiplexing and demultiplexing
- Digital multiplexing and demultiplexing
- Signal gating

Ordering Information

Product Model	Package Type	Marking	Packing	Packing Qty
MC14052BDR2G	SOP-16	14052	Tape	2500Pcs/Reel

Block Diagram And Pin Description

2.1 Block Diagram

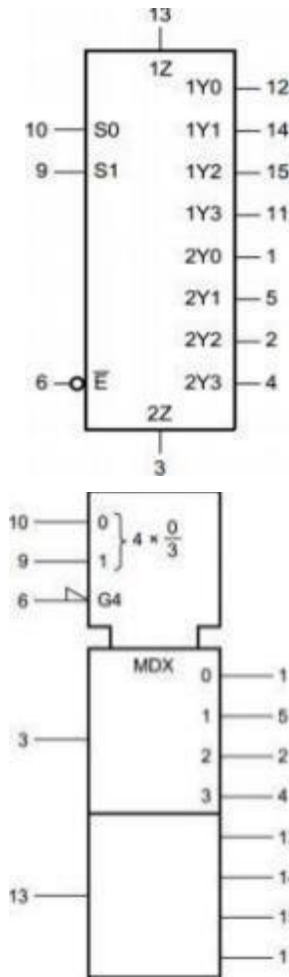


Figure 2 . IEC logic symbol

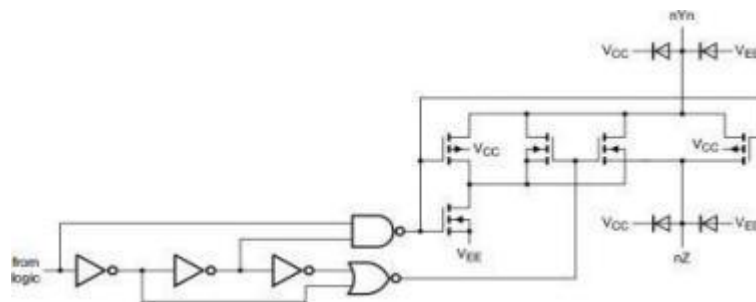


Figure 3 . Schematic diagram (one switch)

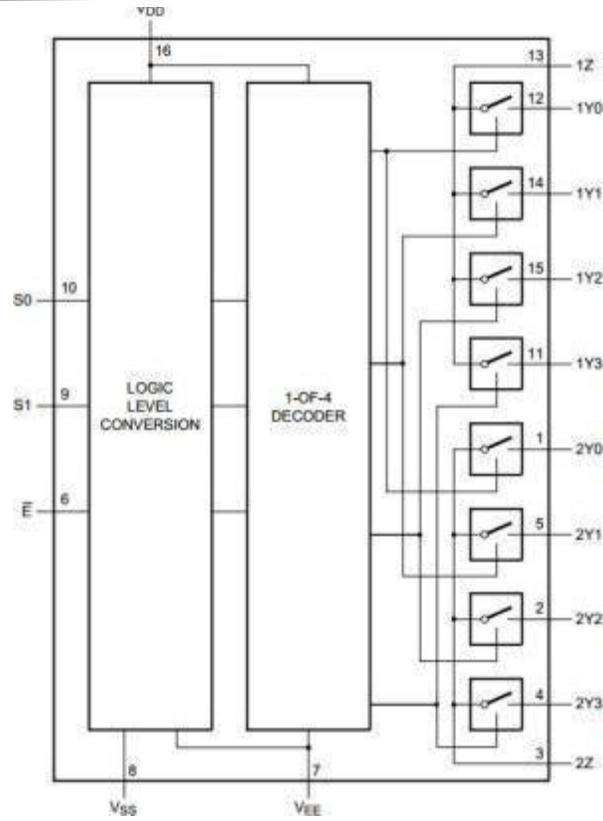
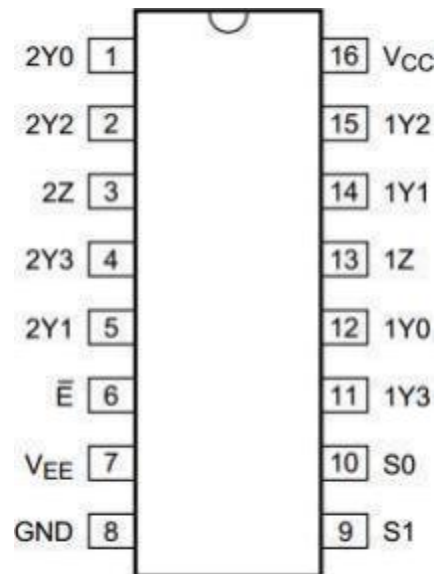


Figure 4 . Functional diagram

2.2 Pin Configurations



Pin Description

Pin No.	Pin Name	Description
1	2Y0	independent input or output
2	2Y2	independent input or output
3	2Z	common input or output
4	2Y3	independent input or output
5	2Y1	independent input or output
6	E^-	enable input (active LOW)
7	V_{EE}	negative supply voltage
8	GND	ground supply voltage
9	S1	select logic input
10	S0	select logic input
11	1Y3	independent input or output
12	1Y0	independent input or output
13	1Z	common input or output
14	1Y1	independent input or output
15	1Y2	independent input or output
16	V_{CC}	positive supply voltage

Function Table

Input			Channel ON
E^-	S1	S0	
L	L	L	nY0 and nZ
L	L	H	nY1 and nZ
L	H	L	nY2 and nZ
L	H	H	nY3 and nZ
H	X	X	none

Note: H= HIGH voltage level; L= LOW voltage level; X= don't care.

Electrical Parameter

Absolute Maximum Ratings

(Voltages are referenced to V_{SS} (ground=0 V) , unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Max.	Unit
supply voltage	V_{CC}	^[1] -	-0.5	+11	V
input clamping current	I_{IK}	$V_I < -0.5 V$ or $V_I > V_{CC} + 0.5 V$	-	±20	mA
switch clamping current	I_{SK}	$V_{SW} < -0.5 V$ or $V_{SW} > V_{CC} + 0.5 V$	-	±20	mA
switch current	I_{SW}	$-0.5 V < V_{SW} < V_{CC} + 0.5 V$	-	±25	mA
supply current	I_{EE}	-	-	±20	mA
supply current	I_{CC}	-	-	50	mA
ground current	I_{GND}	-	-	-50	mA
storage temperature	T_{stg}	-	-65	+150	°C
total power dissipation	P_{tot}	^[2] -	-	500	mW
power dissipation	P	per switch	-	100	mW
Soldering temperature	T_L	10s	DIP	2 4 5	°C
			SOP	2 5 0	°C

Note:

- [1] To avoid drawing V_{CC} current out of terminal nZ, when switch current flows into terminals nYn, the voltage drop across the bidirectional switch must not exceed 0.4 V. If the switch current flows into terminal nZ, no V_{CC} current will flow out of terminals nYn, and in this case there is no limit for the voltage drop across the switch, but the voltages at nYn and nZ may not exceed V_{CC} or V_{EE} .
- [2] For DIP16 packages: above 70 °C the value of P_{tot} derates linearly with 12 mW/ K.
For SOP16 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/ K.
For (T) SSOP16 packages: above 60 °C the value of P_{tot} derates linearly with 5 . 5mW/ K.

Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
MC14052						
supply voltage	V_{CC}	$V_{CC} - GND$	3.0	5.0	9.0	V
		$V_{CC} - V_{EE}$	3.0	5.0	9.0	V
input voltage	V_I	-	0	-	V_{CC}	V
switch voltage	V_{SW}	-	V_{EE}	-	V_{CC}	V
ambient temperature	T_{amb}	in free air	-40	-	+ 105	°C
input transition rise and fall rate	$\Delta t/\Delta V$	$V_{CC} = 4.5 V$	-	1.67	139	ns/ V
		$V_{CC} = 6.0 V$	-	-	83	ns/ V
		$V_{CC} = 9.0 V$	-	-	31	ns/ V

Electrical Characteristics

DC Characteristics 1

($T_{amb} = -40^{\circ}C \sim 85^{\circ}C$, voltages are reference to GND (ground=0 V) , unless otherwise specified, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ. [1]	Max.	Unit	
ON resistance (peak)	RON(peak)	Vis = VCC to VEE ; ISW = 1000 uA	VCC = 4.5 V; VEE = 0 V	-	100	225	Ω
			VCC = 6.0 V; VEE = 0 V	-	90	200	Ω
			VCC = 4.5 V; VEE = -4.5 V	-	70	165	Ω
ON resistance (rail)	RON(rail)	Vis = VEE ; ISW = 1000 uA	VCC = 4.5 V; VEE = 0 V	-	80	175	Ω
			VCC = 6.0 V; VEE = 0 V	-	70	150	Ω
			VCC = 4.5 V; VEE = -4.5 V	-	60	130	Ω
		Vis = VCC ; ISW = 1000 uA	VCC = 4.5 V; VEE = 0 V	-	90	200	Ω
			VCC = 6.0 V; VEE = 0 V	-	80	175	Ω
			VCC = 4.5 V; VEE = -4.5 V	-	65	150	Ω
ON resistance mismatch between channels	Δ RON	Vis = VCC to VEE	VCC = 4.5 V; VEE = 0 V	-	9	-	Ω
			VCC = 6.0 V; VEE = 0 V	-	8	-	Ω
			VCC = 4.5 V; VEE = -4.5 V	-	6	-	Ω
MC14052							
HIGH- level input voltage	VIH	VCC = 4.5 V	3.15	2.4	-	V	
		VCC = 6.0 V	4.2	3.2	-	V	
		VCC = 9.0 V	6.3	4.7	-	V	
LOW- level input voltage	VIL	VCC = 4.5 V	-	2.1	1.35	V	
		VCC = 6.0 V	-	2.8	1.8	V	
		VCC = 9.0 V	-	4.3	2.7	V	
input leakage current	II	VEE = 0 V; VI = VCC or GND	VCC = 6.0 V	-	-	± 1.0	μ A
			VCC = 9.0 V	-	-	± 2.0	μ A
OFF- state leakage current	IS(OFF)	VCC = 9.0 V;	per channel	-	-	± 1.0	μ A
current		VEE = 0 V; VI = VIH or VIL ; VSW = VCC - VEE ; see Figure 7	all channels	-	-	± 2.0	μ A
ON- state leakage current	IS(ON)	VI = VIH or VIL ; VSW = VCC - VEE ; VCC = 9.0 V; VEE = 0 V; see Figure 8		-	-	± 2.0	μ A
supply current	ICC	VEE = 0 V; VI = VCC or GND; Vis = VEE or VCC ; Vos = VCC or VEE	VCC = 6.0 V	-	-	80.0	μ A
			VCC = 9.0 V	-	-	160.0	μ A
input capacitance	CI			3.5		pF	
switch capacitance	CSW	independent pins nYn		-	5	-	pF
		common pins nZ		-	12	-	pF

Note:

- [1] All typical values are measured at $T_{amb} = 25^{\circ} C$.
- [2] $V_I = V_{IH}$ or V_{IL} ; for test circuit see Figure 5 .
- [3] V_{is} is the input voltage at a nY_n or nZ terminal, whichever is assigned as an input.
- [4] V_{os} is the output voltage at a nY_n or nZ terminal, whichever is assigned as an output.

DC Characteristics 2

($T_{amb} = -40^{\circ} C \sim 105^{\circ} C$, voltages are reference to GND (ground=0 V), unless otherwise specified, unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ. [1]	Max.	Unit	
ON resistance (peak)	RON(peak)	$V_{is} = V_{CC}$ to V_{EE} ; $ISW = 1000 \mu A$	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	-	270	Ω
			$V_{CC} = 6.0 V$; $V_{EE} = 0 V$	-	-	240	Ω
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	-	195	Ω
ON resistance (rail)	RON(rail)	$V_{is} = V_{EE}$; $ISW = 1000 \mu A$	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	-	210	Ω
			$V_{CC} = 6.0 V$; $V_{EE} = 0 V$	-	-	180	Ω
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	-	160	Ω
		$V_{is} = V_{CC}$; $ISW = 1000 \mu A$	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	-	240	Ω
			$V_{CC} = 6.0 V$; $V_{EE} = 0 V$	-	-	210	Ω
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	-	180	Ω
MC14052							
HIGH- level input voltage	VIH	$V_{CC} = 4.5 V$	3.15	-	-	V	
		$V_{CC} = 6.0 V$	4.2	-	-	V	
		$V_{CC} = 9.0 V$	6.3	-	-	V	
LOW- level input voltage	VIL	$V_{CC} = 4.5 V$	-	-	1.35	V	
		$V_{CC} = 6.0 V$	-	-	1.8	V	
		$V_{CC} = 9.0 V$	-	-	2.7	V	
input leakage current	II	$V_{EE} = 0 V$; $V_I = V_{CC}$ or GND	$V_{CC} = 6.0 V$	-	-	± 1.0	μA
			$V_{CC} = 9.0 V$	-	-	± 2.0	μA
OFF- state leakage current	IS(OFF)	$V_{CC} = 9.0 V$; $V_{EE} = 0 V$; $V_I = V_{IH}$ or V_{IL} ; $ V_{SW} = V_{CC} - V_{EE}$;	per channel	-	-	± 1.0	μA
			all channels	-	-	± 2.0	μA
		see Figure 7					
ON- state leakage current	IS(ON)	$V_I = V_{IH}$ or V_{IL} ; $ V_{SW} = V_{CC} - V_{EE}$; $V_{CC} = 9.0 V$; $V_{EE} = 0 V$; see Figure 8	-	-	± 2.0	μA	
supply current	ICC	$V_{EE} = 0 V$; $V_I = V_{CC}$ or GND ; $V_{is} = V_{EE}$ or V_{CC} ; $V_{os} = V_{CC}$ or V_{EE}	$V_{CC} = 6.0 V$	-	-	160.0	

Note:

- [1] All typical values are measured at $T_{amb} = 25^{\circ} C$.
- [2] $V_I = V_{IH}$ or V_{IL} ; for test circuit see Figure 5 .
- [3] V_{is} is the input voltage at a nY_n or nZ terminal, whichever is assigned as an input.
- [4] V_{os} is the output voltage at a nY_n or nZ terminal, whichever is assigned as an output

AC Characteristics 1

($T_{amb} = -40^{\circ} C \sim + 85^{\circ} C$; $GND = 0 V$; $t_r = t_f = 6 ns$; $C_L = 50 pF$; unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ. [1]	Max.	Unit	
MC14052							
propagation delay	t_{pd}	V_{is} to V_{os} ; $R_L = \infty \Omega$; see Figure 9 [2]	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	5	15	ns
			$V_{CC} = 6.0 V$; $V_{EE} = 0 V$	-	4	13	ns
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	4	10	ns
turn- on time	t_{on}	E, S_n to V_{os} ; $R_L = \infty \Omega$; see Figure 10 [3]	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	38	81	ns
			$V_{CC} = 5.0 V$; $V_{EE} = 0 V$; $C_L = 15 pF$	-	28	-	ns
			$V_{CC} = 6.0 V$; $V_{EE} = 0 V$	-	30	69	ns
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	26	58	ns
turn- off time	t_{off}	E, S_n to V_{os} ; $R_L = 1 k\Omega$; see Figure 10 [4]	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	27	63	ns
			$V_{CC} = 5.0 V$; $V_{EE} = 0 V$; $C_L = 15 pF$	-	21	-	ns
			$V_{CC} = 6.0 V$; $V_{EE} = 0 V$	-	22	54	ns
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	22	48	ns
power dissipation capacitance	C_{PD}	per switch; $V_I = GND$ to V_{CC} [5]	-	57	-	pF	
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	28	60	ns

Note:

- [1] All typical values are measured at $T_{amb} = 25^{\circ} C$.
- [2] t_{pd} is the same as t_{PHL} and t_{PLH} .
- [3] t_{on} is the same as t_{pZH} and t_{pZL} .
- [4] t_{off} is the same as t_{pHZ} and t_{pLZ} .
- [5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW) .
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma \{ (C_L + C_{sw}) \times V_{CC}^2 \times f_o \}$ where:
 f_i = input frequency in MHz;
 f_o = output frequency in MHz;
 N = number of inputs switching;
 $\Sigma \{ (C_L + C_{sw}) \times V_{CC}^2 \times f_o \}$ = sum of outputs;
 C_L = output load capacitance in pF;

C_{sw} = switch capacitance in pF;

V_{CC} = supply voltage in V.

[6] For test circuit see Figure 1 1 .

[7] V_{is} is the input voltage at a nYn or nZ terminal, whichever is assigned as an input.

[8] V_{os} is the output voltage at a nYn or nZ terminal, whichever is assigned as an output.

AC Characteristics 2

($T_{amb} = -40^{\circ}C \sim +105^{\circ}C$; GND = 0 V; $t_r = t_f = 6$ ns; $C_L = 50$ pF; unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ. ^[1]	Max.	Unit	
MC14052							
propagation delay	t_{pd}	V_{is} to V_{os} ; $R_L = \infty \Omega$; see Figure 9 [2]	$V_{CC} = 4.5$ V; $V_{EE} = 0$ V	-	-	18	ns
			$V_{CC} = 6.0$ V; $V_{EE} = 0$ V	-	-	15	ns
			$V_{CC} = 4.5$ V; $V_{EE} = -4.5$ V	-	-	12	ns
turn- on time	t_{on}	E, Sn to V_{os} ; $R_L = \infty \Omega$; see Figure 10 [3]	$V_{CC} = 4.5$ V; $V_{EE} = 0$ V	-	-	98	ns
			$V_{CC} = 6.0$ V; $V_{EE} = 0$ V	-	-	83	ns
			$V_{CC} = 4.5$ V; $V_{EE} = -4.5$ V	-	-	69	ns
turn- off time	t_{off}	E, Sn to V_{os} ; $R_L = 1$ k Ω ; see Figure 10 [4]	$V_{CC} = 4.5$ V; $V_{EE} = 0$ V	-	-	75	ns
			$V_{CC} = 6.0$ V; $V_{EE} = 0$ V	-	-	64	ns
			$V_{CC} = 4.5$ V; $V_{EE} = -4.5$ V	-	-	57	ns

Note:

[1] All typical values are measured at $T_{amb} = 25^{\circ}C$.

[2] t_{pd} is the same as t_{PHL} and t_{PLH} .

[3] t_{on} is the same as t_{PZH} and t_{PZL} .

[4] t_{off} is the same as t_{PHZ} and t_{PLZ} .

[5] For test circuit see Figure 1 1 .

[6] V_{is} is the input voltage at a nYn or nZ terminal, whichever is assigned as an input.

[7] V_{os} is the output voltage at a nYn or nZ terminal, whichever is assigned as an output.

AC Characteristics 3

($T_{amb} = 25^{\circ} C$; $GND = 0 V$; $C_L = 50 pF$; recommended conditions and typical values.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
sine- wave distortion	d_{sin}	$f_i = 1 kHz$; $R_L = 10 k\Omega$; see Figure 12	$V_{is} = 4.0 V (p-p)$; $V_{CC} = 2.25 V$; $V_{EE} = -2.25 V$	-	0.04	-	%
			$V_{is} = 8.0 V (p-p)$; $V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	0.02	-	%
		$f_i = 10 kHz$; $R_L = 10 k\Omega$; see Figure 12	$V_{is} = 4.0 V (p-p)$; $V_{CC} = 2.25 V$; $V_{EE} = -2.25 V$	-	0.12	-	%
			$V_{is} = 8.0 V (p-p)$; $V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	0.06	-	%
isolation (OFF- state)	α_{iso}	$R_L = 600 \Omega$; $f_i = 1 MHz$; see Figure 13	$V_{CC} = 2.25 V$; [1] $V_{EE} = -2.25 V$	-	-50	-	dB
			$V_{CC} = 4.5 V$; [1] $V_{EE} = -4.5 V$	-	-50	-	dB
crosstalk	Xtalk	between two switches/ multiplexers; $R_L = 600 \Omega$; $f_i = 1 MHz$; see Figure 14	$V_{CC} = 2.25 V$; [1] $V_{EE} = -2.25 V$	-	-60	-	dB
			$V_{CC} = 4.5 V$; [1] $V_{EE} = -4.5 V$	-	-60	-	dB
crosstalk voltage	V_{ct}	peak- to- peak value; between control and any switch; $R_L = 600 \Omega$; $f_i = 1 MHz$; – E or Sn square wave between V_{CC} and GND; $t_r = t_f = 6 ns$; see Figure 15	$V_{CC} = 4.5 V$; $V_{EE} = 0 V$	-	110	-	mV
			$V_{CC} = 4.5 V$; $V_{EE} = -4.5 V$	-	220	-	mV
-3 dB frequency response	$f_{(-3 dB)}$	$R_L = 50 \Omega$; see Figure 16	$V_{CC} = 2.25 V$; [2] $V_{EE} = -2.25 V$	-	170	-	MHz
			$V_{CC} = 4.5 V$; [2] $V_{EE} = -4.5 V$	-	180	-	MHz

Note:

- [1] Adjust input voltage V_{is} to 0 dBm level (0 dBm = 1 mW into 600 Ω) .
- [2] Adjust input voltage V_{is} to 0 dBm level at V_{os} for 1 MHz (0 dBm = 1 mW into 50 Ω) .
- [3] V_{is} is the input voltage at a nYn or nZ terminal, whichever is assigned as an input.
- [4] V_{os} is the output voltage at a nYn or nZ terminal, whichever is assigned as an output.

Testing Circuit

DC Testing Circuit 1

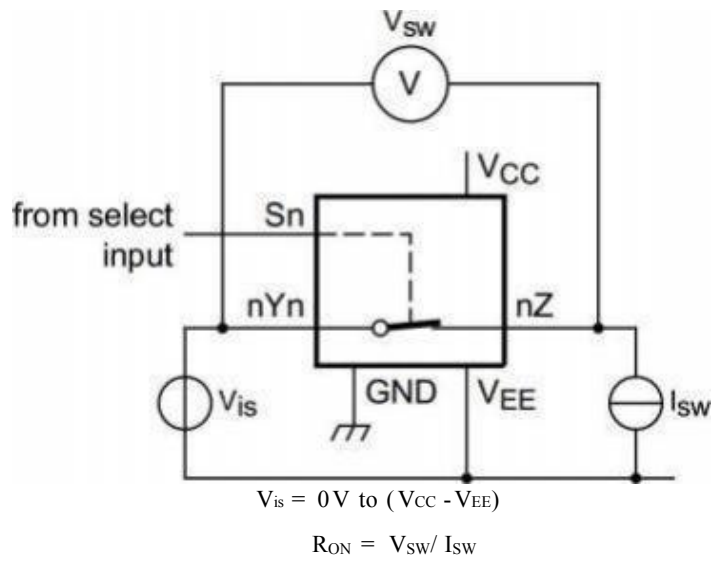
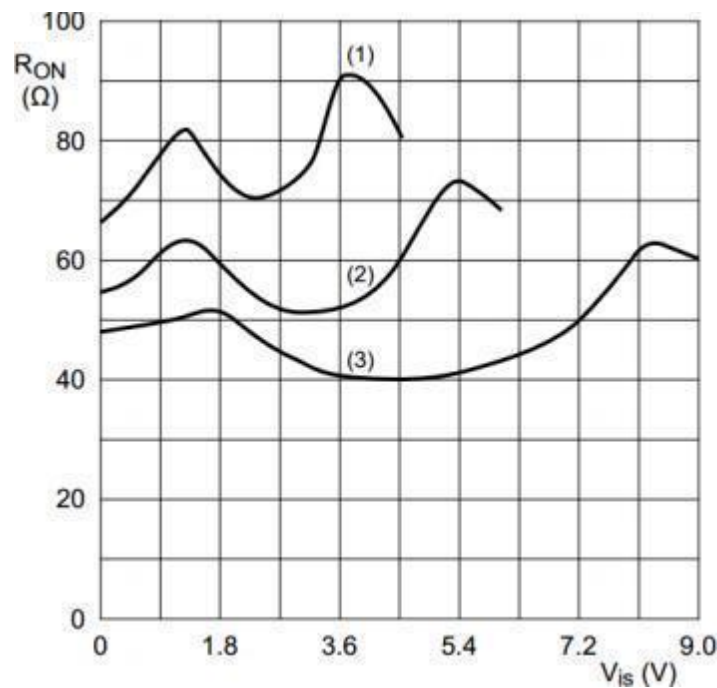


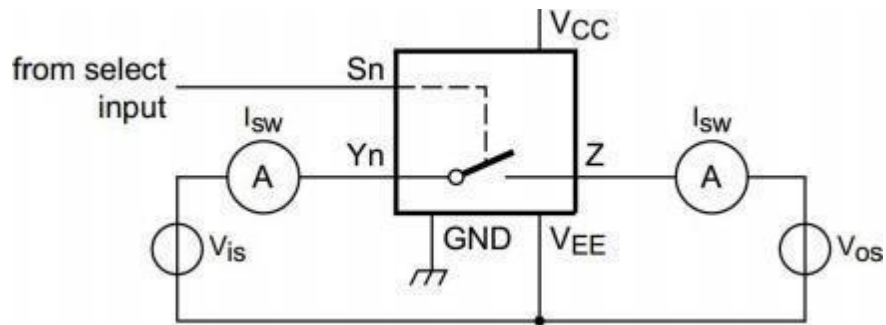
Figure 5 . Test circuit for measuring R_{ON}



$V_{is} = 0V \text{ to } (V_{CC} - V_{EE})$
 (1) $V_{CC} = 4.5V$
 (2) $V_{CC} = 6V$
 (3) $V_{CC} = 9V$

Figure 6 . Typical R_{ON} as a function of input voltage V_{is}

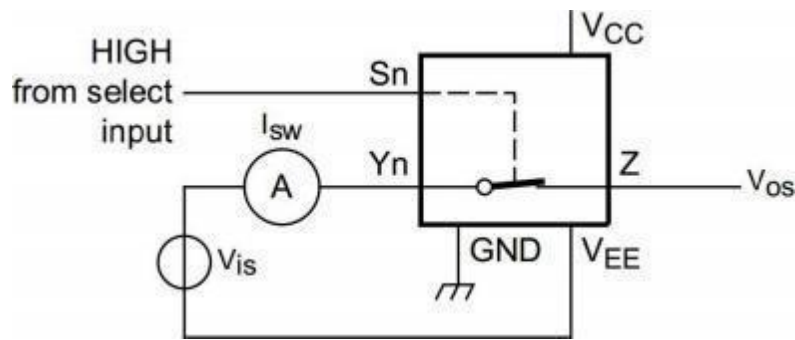
DC Testing Circuit 2



$V_{is} = V_{CC}$ and $V_{os} = V_{EE}$.

$V_{is} = V_{EE}$ and $V_{os} = V_{CC}$.

Figure 7 . Test circuit for measuring OFF- state current



$V_{is} = V_{CC}$ and $V_{os} = \text{open- circuit}$.

$V_{is} = V_{EE}$ and $V_{os} = \text{open- circuit}$.

Figure 8 . Test circuit for measuring ON- state current

AC Testing Waveforms

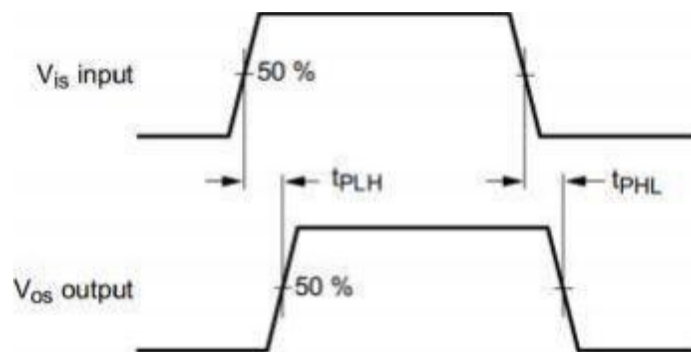


Figure 9 . Input (V_{is}) to output (V_{os}) propagation delays

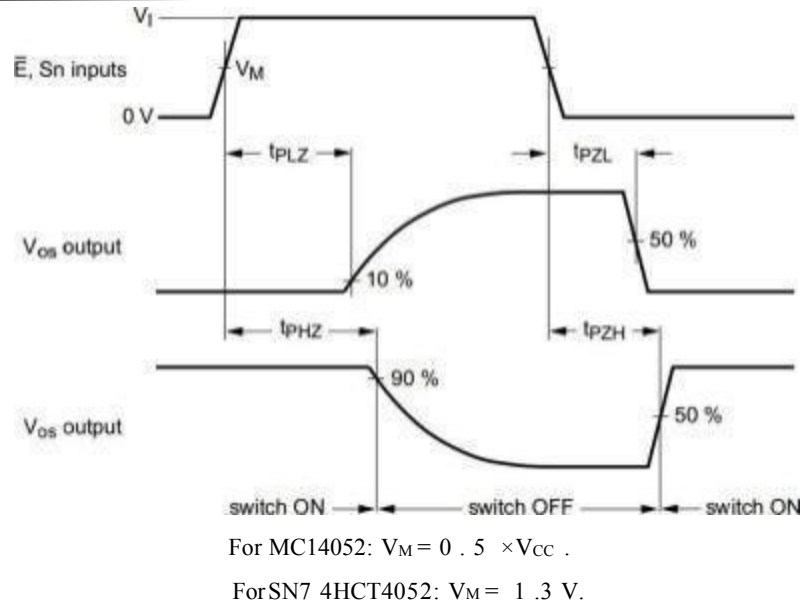


Figure 10 . Turn-on and turn- off times

AC Testing Circuit 1

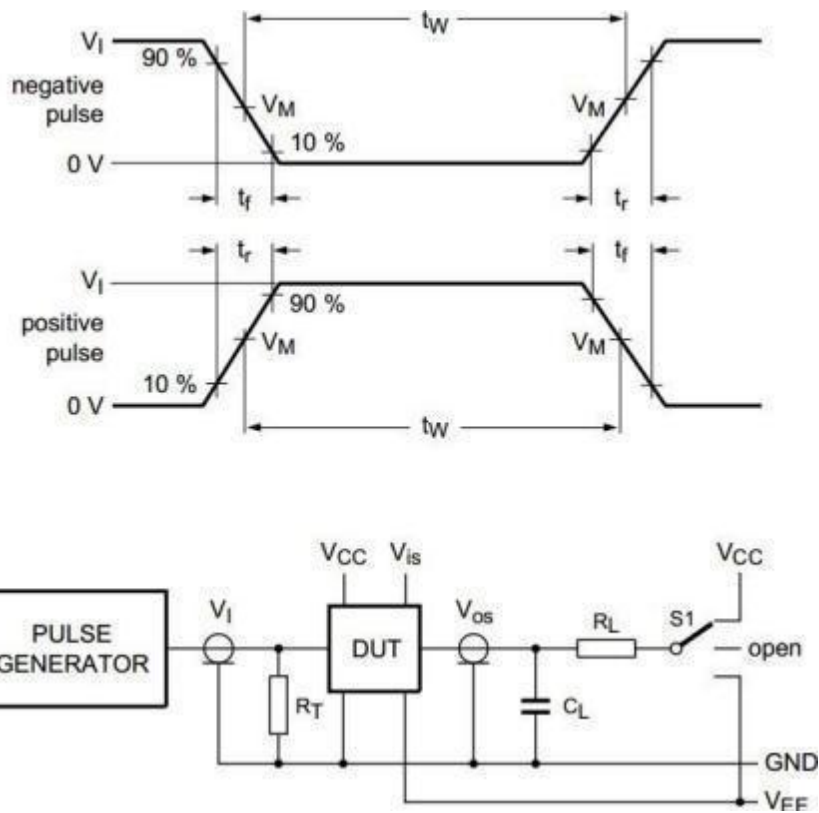


Figure 1 1 . Test circuit for measuring switching times

Definitions for test circuit:

R_T = termination resistance should be equal to the output impedance Z_O of the pulse generator.

C_L = load capacitance including jig and probe capacitance.

R_L = load resistance.

$S1$ = Test selection switch.

4.5 Test Data

Test	Input				Load		S1 position
	V _I	V _{is}	t _r , t _f		C _L	R _L	
			at f _{max}	other[1]			
t _{PHL} , t _{PLH}	[2]	pulse	< 2ns	6ns	50pF	1kΩ	open
t _{PZH} , t _{PHZ}	[2]	V _{CC}	< 2ns	6ns	50pF	1kΩ	V _{EE}
t _{PZL} , t _{PLZ}	[2]	V _{EE}	< 2ns	6ns	50pF	1kΩ	V _{CC}

Note:

[1] t_r = t_f = 6 ns; when measuring f_{max}, there is no constraint to t_r and t_f with 50 % duty factor.

[2] V_I values:

For MC14052: V_I = V_{CC}. For

SN74HCT4052: V_I = 3V.

AC Testing Circuit 2

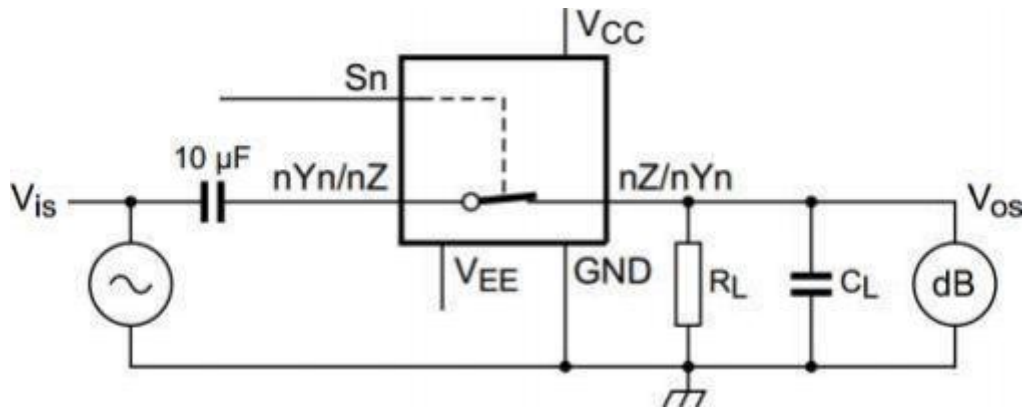
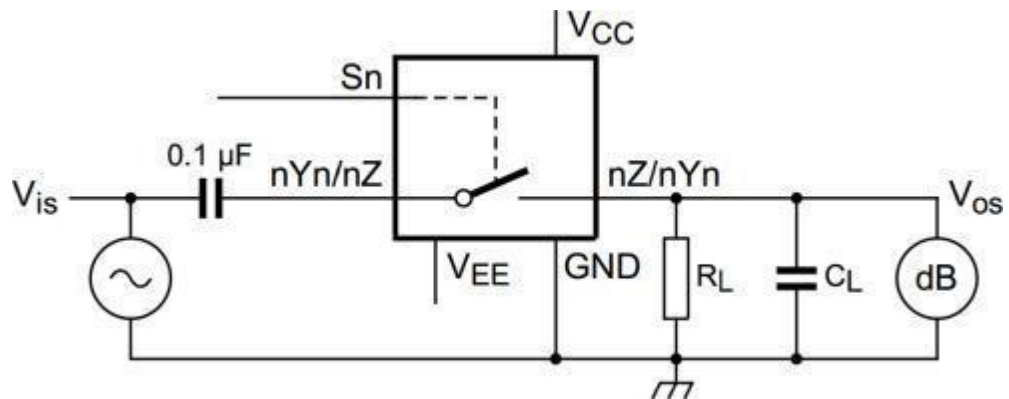
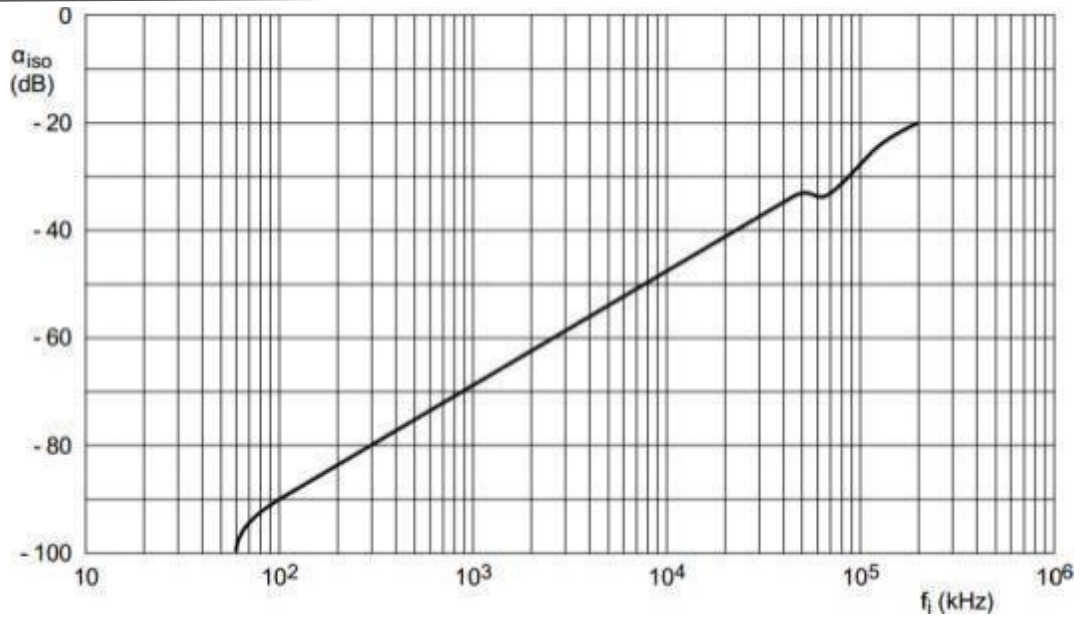


Figure 12 . Test circuit for measuring sine- wave distortion



V_{CC} = 4 . 5 V; GND = 0 V; V_{EE} = -4 . 5 V; R_L = 600 Ω; R_S = 1 kΩ .

a. Test circuit



b. Isolation (OFF- state) as a function of frequency

Figure 13 . Test circuit for measuring isolation (OFF- state)

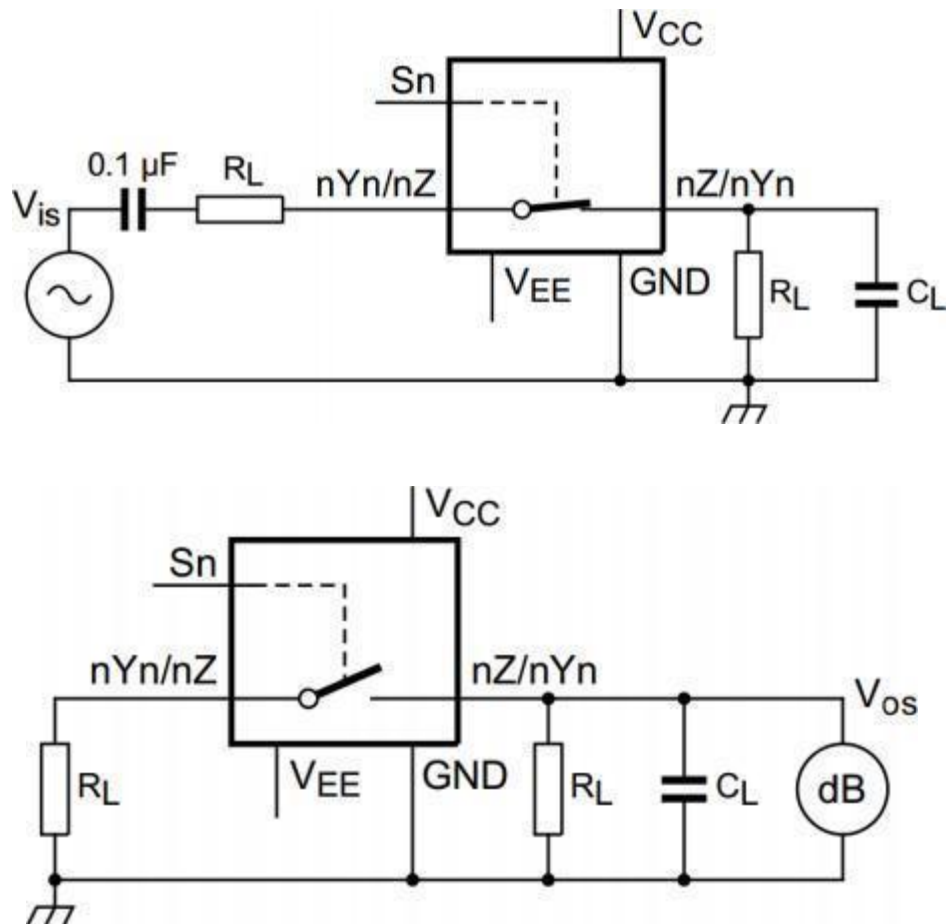


Figure 14 . Test circuits for measuring crosstalk between any two switches/ multiplexers

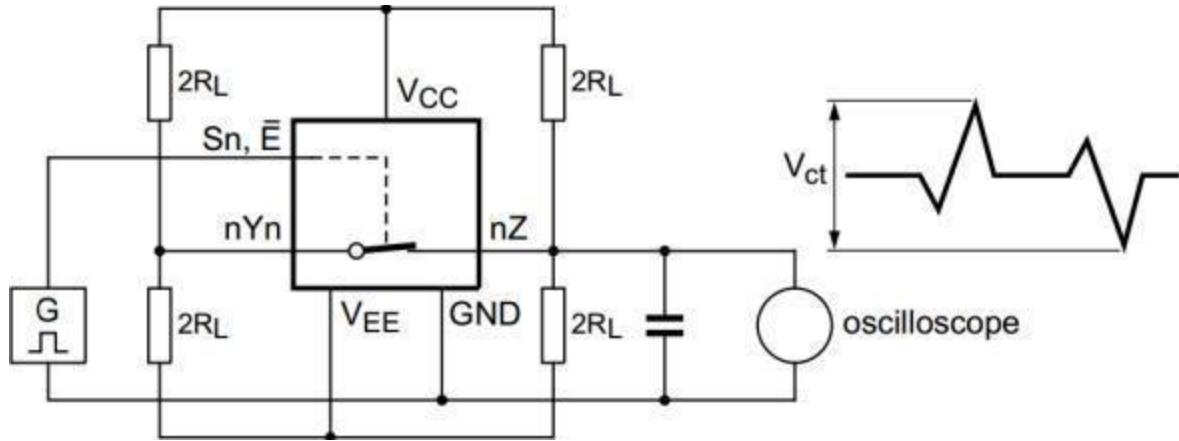
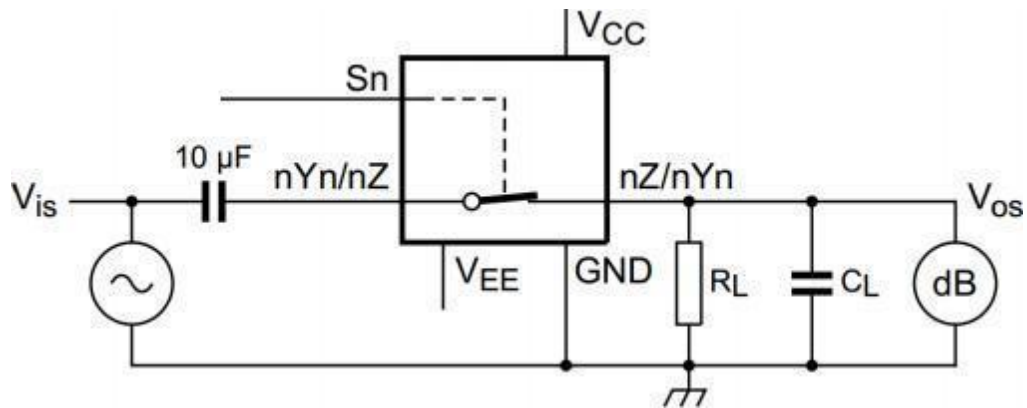
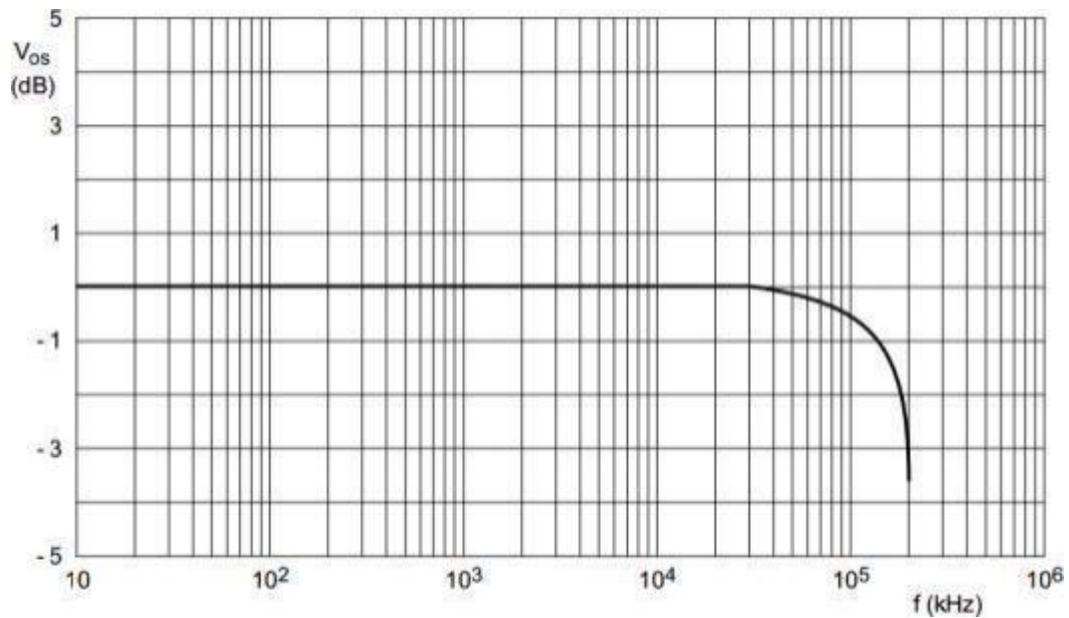


Figure 15 . Test circuit for measuring crosstalk between control input and any switch



$V_{CC} = 4.5 \text{ V}$; $GND = 0 \text{ V}$; $V_{EE} = -4.5 \text{ V}$; $R_L = 50 \text{ } \Omega$; $R_S = 1 \text{ k}\Omega$

a. Test circuit

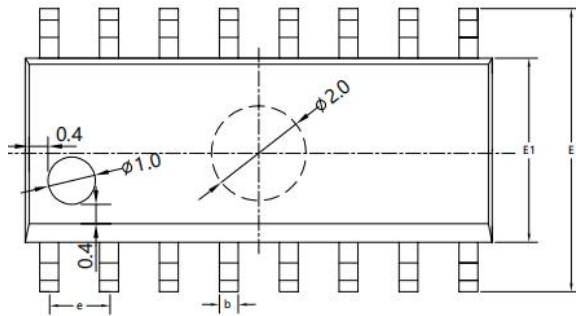
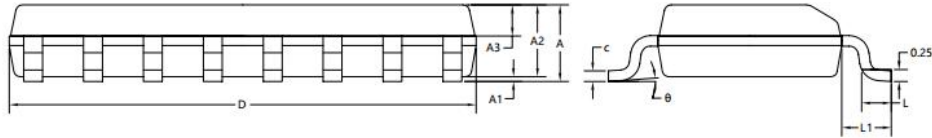


b. Typical frequency response

Figure 16 . Test circuit for frequency response

Package Information

SOP16



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	1.50	1.60	1.70
A1	0.10	0.15	0.25
A2	1.40	1.45	1.50
A3	0.60	0.65	0.70
b	0.30	0.40	0.50
c	0.15	0.20	0.25
D	9.80	9.90	10.00
E	5.80	6.00	6.20
E1	3.85	3.90	3.95
e	1.27BSC		
L	0.50	0.60	0.70
L1	1.05BSC		
θ	0°	4°	8°

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