



AiP74HC/HCT4066 Quad Bilateral Switches

Product Specification

Specification Revision History:

Version	Date	Description
2019-12-A1	2019-12	New
2023-04-B1	2023-04	Update the template
2026-07-B2	2026-07	Add DHVQFN14 package form; update package information



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1、General Description

The AiP74HC/HCT4066 is a quad single pole, single throw analog switch. Each switch features two input/output terminals (nY and nZ) and an active HIGH enable input (nE). When nE is LOW, the analog switch is turned off. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V_{CC} .

Features:

- Input levels nE inputs:
 - For AiP74HC4066: CMOS level
 - For AiP74HCT4066: TTL level
- Low ON resistance:
 - 50 Ω (typical) at $V_{CC} = 4.5\text{ V}$
 - 45 Ω (typical) at $V_{CC} = 6.0\text{ V}$
 - 35 Ω (typical) at $V_{CC} = 9.0\text{ V}$
- Specified from -40°C to $+125^{\circ}\text{C}$
- Packaging information: DIP14/SOP14/TSSOP14/DHVQFN14

**Ordering Information:****Tube packing specifications:**

Part number	Packaging form	Marking code	Tube quantity	Boxed tube quantity	Boxed quantity	Notes
AiP74HC4066DA14.TB	DIP14	74HC4066	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
AiP74HCT4066DA14.TB	DIP14	74HCT4066	25 PCS/tube	40 tube/box	1000 PCS/box	Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm
AiP74HC4066SA14.TB	SOP14	74HC4066	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
AiP74HCT4066SA14.TB	SOP14	74HCT4066	50 PCS/tube	200 tube/box	10000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
AiP74HC4066TA14.TB	TSSOP14	74HC4066	96 PCS/tube	200 tube/box	19200 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
AiP74HCT4066TA14.TB	TSSOP14	74HCT4066	96 PCS/tube	200 tube/box	19200 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm

**Reel packing specifications:**

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74HC4066SA14.TR	SOP14	74HC4066	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
AiP74HCT4066SA14.TR	SOP14	74HCT4066	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm
AiP74HC4066TA14.TR	TSSOP14	74HC4066	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
AiP74HCT4066TA14.TR	TSSOP14	74HCT4066	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
AiP74HC4066QE14.TR	DHVQFN14	HC4066	3000 PCS/reel	3000 PCS/box	Dimensions of plastic enclosure: 3.0mm×2.5mm Pin spacing: 0.50mm
AiP74HCT4066QE14.TR	DHVQFN14	HCT4066	3000 PCS/reel	3000 PCS/box	Dimensions of plastic enclosure: 3.0mm×2.5mm Pin spacing: 0.50mm

Note: If the physical information is inconsistent with the ordering information, please refer to the actual product.



2、Block Diagram And Pin Description

2.1、Block Diagram

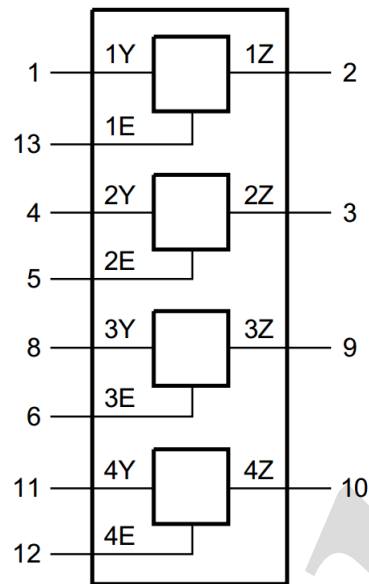


Figure 1. Logic symbol

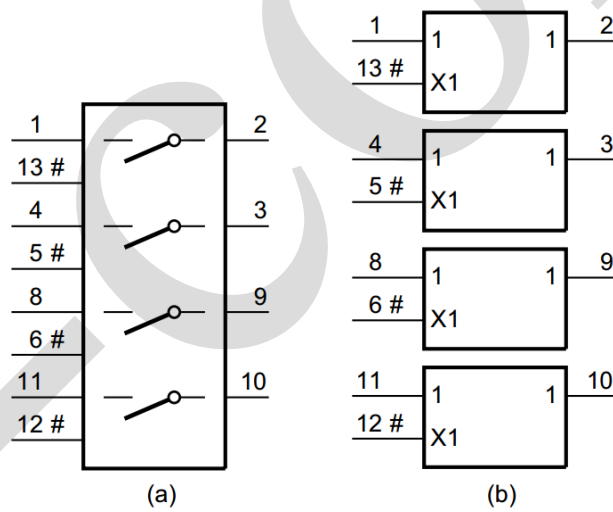


Figure 2. IEC logic symbol

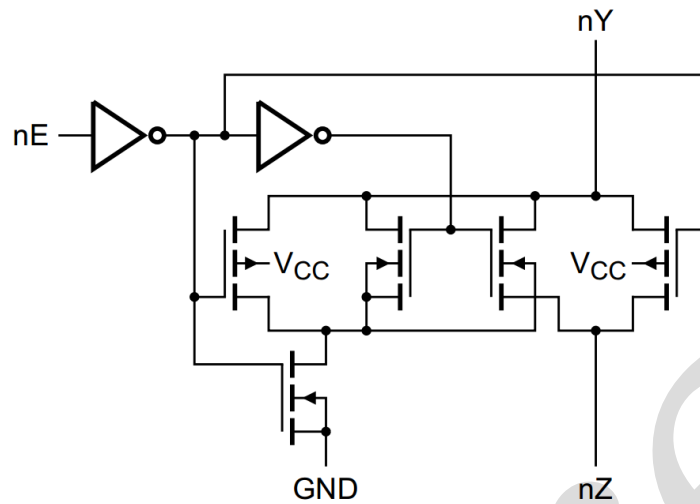
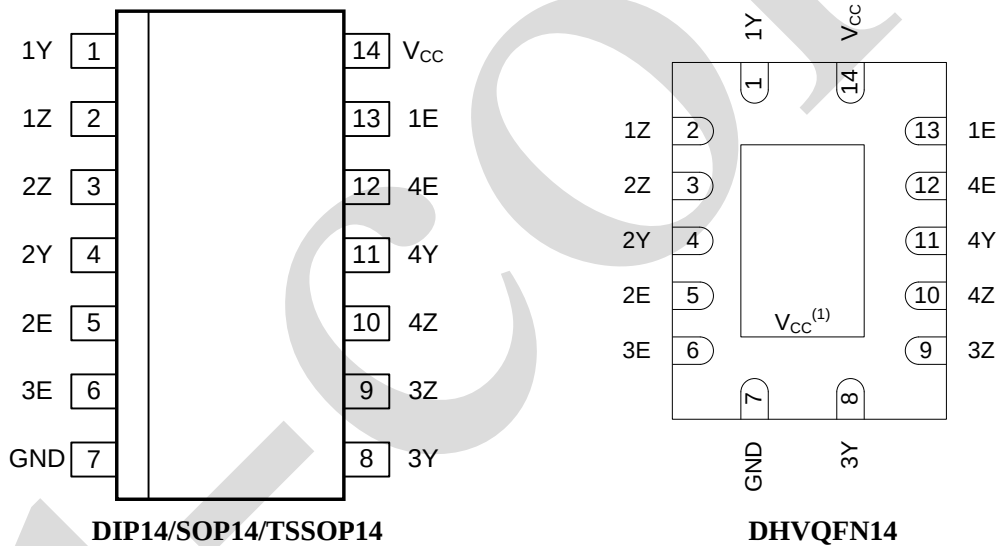


Figure 3. Schematic diagram (one switch)

2.2、Pin Configurations



Note: (1) If it is soldered, the solder land should remain floating or be connected to V_{CC} .

Figure 4. Functional diagram



2.3、Pin Description

Pin No.	Pin Name	Description
1	1Y	independent input or output
2	1Z	independent input or output
3	2Z	independent input or output
4	2Y	independent input or output
5	2E	enable input (active HIGH)
6	3E	enable input (active HIGH)
7	GND	ground (0V)
8	3Y	independent input or output
9	3Z	independent input or output
10	4Z	independent input or output
11	4Y	independent input or output
12	4E	enable input (active HIGH)
13	1E	enable input (active HIGH)
14	V _{CC}	supply voltage

2.4、Function Table

Input	Switch
nE	
H	ON
L	OFF

Note: H=HIGH voltage level; L=LOW voltage level.

3、Electrical Parameter

3.1、Absolute Maximum Ratings

(Voltages are referenced to GND (ground=0V), unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Max.	Unit
supply voltage	V _{CC}	┘ ^[1]	-0.5	+11.0	V
input clamping current	I _{IK}	V _I <-0.5V or V _I >V _{CC} +0.5V	-	±20	mA
switch clamping current	I _{SK}	V _{SW} <-0.5V or V _{SW} >V _{CC} +0.5V	-	±20	mA
switch current	I _{SW}	V _{SW} =-0.5V to V _{CC} +0.5V	-	±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}	-	-	500	mW
power dissipation	P	per switch	-	100	mW
soldering temperature	T _L	10s	DIP	245	°C
			SOP/TSSOP/DHVQFN	260	°C



Note:

- [1] To avoid drawing V_{CC} current out of terminal Z, when switch current flows into terminals Y_n , the voltage drop across the bidirectional switch must not exceed 0.4V. If the switch current flows into terminal Z, no V_{CC} current will flow out of terminals Y_n , and in this case there is no limit for the voltage drop across the switch, but the voltages at Y_n and Z may not exceed V_{CC} or GND.

3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
AiP74HC4066						
supply voltage	V_{CC}	-	3.0	5.0	9.0	V
input voltage	V_I	-	0	-	V_{CC}	V
switch voltage	V_{SW}	-	0	-	V_{CC}	V
ambient temperature	T_{amb}	-	-40	-	+125	°C
AiP74HCT4066						
supply voltage	V_{CC}	-	4.5	5.0	5.5	V
input voltage	V_I	-	0	-	V_{CC}	V
switch voltage	V_{SW}	-	GND	-	V_{CC}	V
ambient temperature	T_{amb}	-	-40	-	+125	°C

3.3、Electrical Characteristics

3.3.1、DC Characteristics 1

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

Parameter	Symbol	Conditions		Min.	Typ. ^[1]	Max.	Unit
ON resistance (peak)	R _{ON(peak)}	V _{is} =V _{CC} to GND; I _{SW} =1000uA	V _{CC} =4.5V	-	54	-	Ω
			V _{CC} =6.0V	-	42	-	Ω
			V _{CC} =9.0V	-	32	-	Ω
ON resistance (rail)	R _{ON(rail)}	V _{is} =GND; I _{SW} =1000uA	V _{CC} =4.5V	-	35	-	Ω
			V _{CC} =6.0V	-	27	-	Ω
			V _{CC} =9.0V	-	20	-	Ω
		V _{is} =V _{CC} ; I _{SW} =1000uA	V _{CC} =4.5V	-	42	-	Ω
			V _{CC} =6.0V	-	35	-	Ω
			V _{CC} =9.0V	-	20	-	Ω
ON resistance mismatch between channels	ΔR _{ON}	V _{is} =V _{CC} to GND	V _{CC} =4.5V	-	5	-	Ω
			V _{CC} =6.0V	-	4	-	Ω
			V _{CC} =9.0V	-	3	-	Ω
AiP74HC4066							
HIGH-level input voltage	V _{IH}	V _{CC} =4.5V		3.15	2.4	-	V
		V _{CC} =6.0V		4.2	3.2	-	V
		V _{CC} =9.0V		6.3	4.7	-	V
LOW-level input voltage	V _{IL}	V _{CC} =4.5V		-	2.1	1.35	V
		V _{CC} =6.0V		-	2.8	1.80	V
		V _{CC} =9.0V		-	4.3	2.70	V
input leakage	I _I	V _I =V _{CC} or GND	V _{CC} =6.0V	-	-	±1.0	uA



current			$V_{CC}=9.0V$	-	-	± 2.0	μA
OFF-state leakage current	$I_{S(OFF)}$	$V_{CC}=9.0V$; $V_I=V_{IH}$ or V_{IL} ; $ V_{SW} =V_{CC}-GND$; see Figure 6	per channel	-	-	± 1.0	μA
ON-state leakage current	$I_{S(ON)}$	$V_{CC}=9.0V$; $V_I=V_{IH}$ or V_{IL} ; $ V_{SW} =V_{CC}-GND$; see Figure 7		-	-	± 1.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND ; $V_{is}=GND$ or V_{CC} ; $V_{os}=V_{CC}$ or GND	$V_{CC}=6.0V$	-	-	20.0	μA
			$V_{CC}=9.0V$	-	-	40.0	μA
input capacitance	C_I	-		-	3.5	-	pF
switch capacitance	C_{SW}	-		-	8	-	pF
AiP74HCT4066							
HIGH-level input voltage	V_{IH}	$V_{CC}=4.5V$ to $5.5V$		2.0	1.6	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=4.5V$ to $5.5V$		-	1.2	0.8	V
input leakage current	I_I	$V_I=V_{CC}$ or GND ; $V_{CC}=5.5V$		-	-	± 1.0	μA
OFF-state leakage current	$I_{S(OFF)}$	$V_{CC}=5.5V$; $V_I=V_{IH}$ or V_{IL} ; $ V_{SW} =V_{CC}-GND$; see Figure 6	per channel	-	-	± 1.0	μA
ON-state leakage current	$I_{S(ON)}$	$V_{CC}=5.5V$; $V_I=V_{IH}$ or V_{IL} ; $ V_{SW} =V_{CC}-GND$; see Figure 7		-	-	± 1.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND ; $V_{is}=GND$ or V_{CC} ; $V_{os}=V_{CC}$ or GND ; $V_{CC}=4.5V$ to $5.5V$		-	-	20.0	μA
additional supply current	ΔI_{CC}	per input; $V_I=V_{CC}-2.1V$; other inputs at V_{CC} or GND ; $V_{CC}=4.5V$ to $5.5V$		-	100	450	μA
input capacitance	C_I	-		-	3.5	-	pF
switch capacitance	C_{SW}	-		-	8	-	pF

Note:

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



3.3.2、DC Characteristics 2

($T_{amb} = -40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$, voltages are reference to GND (ground=0V), unless otherwise specified, unless otherwise specified.)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
ON resistance (peak)	R _{ON(peak)}	V _{is} =V _{CC} to GND; I _{SW} =1000uA	V _{CC} =4.5V	118	-	142	Ω
			V _{CC} =6.0V	105	-	126	Ω
			V _{CC} =9.0V	88	-	105	Ω
ON resistance (rail)	R _{ON(rail)}	V _{is} =GND; I _{SW} =1000uA	V _{CC} =4.5V	95	-	115	Ω
			V _{CC} =6.0V	82	-	100	Ω
			V _{CC} =9.0V	70	-	85	Ω
		V _{is} =V _{CC} ; I _{SW} =1000uA	V _{CC} =4.5V	106	-	128	Ω
			V _{CC} =6.0V	94	-	113	Ω
			V _{CC} =9.0V	78	-	95	Ω
AiP74HC4066							
HIGH-level input voltage	V _{IH}	V _{CC} =4.5V		3.15	-	-	V
		V _{CC} =6.0V		4.2	-	-	V
		V _{CC} =9.0V		6.3	-	-	V
LOW-level input voltage	V _{IL}	V _{CC} =4.5V		-	-	1.35	V
		V _{CC} =6.0V		-	-	1.80	V
		V _{CC} =9.0V		-	-	2.70	V
input leakage current	I _I	V _I =V _{CC} or GND	V _{CC} =6.0V	-	-	±1.0	uA
			V _{CC} =9.0V	-	-	±2.0	uA
OFF-state leakage current	I _{S(OFF)}	V _{CC} =9.0V; V _I =V _{IH} or V _{IL} ; V _{SW} =V _{CC} -GND; see Figure 6	per channel	-	-	±1.0	uA
ON-state leakage current	I _{S(ON)}	V _{CC} =9.0V; V _I =V _{IH} or V _{IL} ; V _{SW} =V _{CC} -GND; see Figure 7		-	-	±1.0	uA
supply current	I _{CC}	V _I =V _{CC} or GND; V _{is} =GND or V _{CC} ; V _{os} =V _{CC} or GND	V _{CC} =6.0V	-	-	40.0	uA
			V _{CC} =9.0V	-	-	80.0	uA
AiP74HCT4066							
HIGH-level input voltage	V _{IH}	V _{CC} =4.5V to 5.5V		2.0	-	-	V
LOW-level input voltage	V _{IL}	V _{CC} =4.5V to 5.5V		-	-	0.8	V
input leakage current	I _I	V _I =V _{CC} or GND; V _{CC} =5.5V		-	-	±1.0	uA
OFF-state leakage current	I _{S(OFF)}	V _{CC} =5.5V; V _I =V _{IH} or V _{IL} ; V _{SW} =V _{CC} -GND; see Figure 6	per channel	-	-	±1.0	uA
ON-state leakage current	I _{S(ON)}	V _{CC} =5.5V; V _I =V _{IH} or V _{IL} ; V _{SW} =V _{CC} -GND; see Figure 7		-	-	±1.0	uA



supply current	I_{CC}	$V_I=V_{CC}$ or GND; $V_{is}=GND$ or V_{CC} ; $V_{os}=V_{CC}$ or GND; $V_{CC}=4.5V$ to $5.5V$	-	-	40.0	μA
additional supply current	ΔI_{CC}	per input; $V_I=V_{CC}-2.1V$; other inputs at V_{CC} or GND; $V_{CC}=4.5V$ to $5.5V$	-	-	490	μA

3.3.3、AC Characteristics 1

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

Parameter	Symbol	Conditions	Min.	Typ. ^[1]	Max.	Unit	
AiP74HC4066							
propagation delay	t _{PHL} , t _{PLH}	nY to nZ or nZ to nY; R _L =∞Ω; see Figure 8	V _{CC} =4.5V	-	3	15	ns
			V _{CC} =6.0V	-	2	13	ns
			V _{CC} =9.0V	-	2	10	ns
turn-on time	t _{PZH} , t _{PZL}	nE to nY or nZ; see Figure 9	V _{CC} =4.5V	-	13	25	ns
			V _{CC} =5.0V; C _L =15pF	-	11	-	ns
			V _{CC} =6.0V	-	10	21	ns
			V _{CC} =9.0V	-	8	16	ns
turn-off time	t _{PHZ} , t _{PLZ}	nE to nY or nZ; see Figure 9	V _{CC} =4.5V	-	16	38	ns
			V _{CC} =5.0V; C _L =15pF	-	13	-	ns
			V _{CC} =6.0V	-	13	33	ns
			V _{CC} =9.0V	-	16	26	ns
AiP74HCT4066							
propagation delay	t _{PHL} , t _{PLH}	nY to nZ or nZ to nY; R _L =∞Ω; see Figure 8	V _{CC} =4.5V	-	3	15	ns
turn-on time	t _{PZH} , t _{PZL}	nE to nY or nZ; see Figure 9	V _{CC} =4.5V	-	12	30	ns
			V _{CC} =5.0V; C _L =15pF	-	12	-	ns
turn-off time	t _{PHZ} , t _{PLZ}	nE to nY or nZ; see Figure 9	V _{CC} =4.5V	-	20	44	ns
			V _{CC} =5.0V; C _L =15pF	-	16	-	ns

Note:

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



3.3.4、AC Characteristics 2

($T_{amb} = -40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$; $GND = 0V$; $t_r = t_f = 6\text{ns}$; $C_L = 50\text{pF}$; unless otherwise specified.)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
AiP74HC4066							
propagation delay	t_{PHL}, t_{PLH}	nY to nZ or nZ to nY; $R_L=\infty\Omega$; see Figure 8	$V_{CC}=4.5V$	-	-	18	ns
			$V_{CC}=6.0V$	-	-	15	ns
			$V_{CC}=9.0V$	-	-	12	ns
turn-on time	t_{PZH}, t_{PZL}	nE to nY or nZ; see Figure 9	$V_{CC}=4.5V$	-	-	30	ns
			$V_{CC}=6.0V$	-	-	26	ns
			$V_{CC}=9.0V$	-	-	20	ns
turn-off time	t_{PHZ}, t_{PLZ}	nE to nY or nZ; see Figure 9	$V_{CC}=4.5V$	-	-	45	ns
			$V_{CC}=6.0V$	-	-	38	ns
			$V_{CC}=9.0V$	-	-	30	ns
AiP74HCT4066							
propagation delay	t_{PHL}, t_{PLH}	nY to nZ or nZ to nY; $R_L=\infty\Omega$; see Figure 8	$V_{CC}=4.5V$	-	-	18	ns
turn-on time	t_{PZH}, t_{PZL}	nE to nY or nZ; see Figure 9	$V_{CC}=4.5V$	-	-	36	ns
turn-off time	t_{PHZ}, t_{PLZ}	nE to nY or nZ; see Figure 9	$V_{CC}=4.5V$	-	-	53	ns

3.3.5、AC Characteristics 3

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
total harmonic distortion	THD	$f_i = 1\text{kHz}$; $R_L = 10\text{k}\Omega$; $C_L = 50\text{pF}$; see Figure 11	$V_{CC} = 4.5V$; $V_i = 4.0V$ (p-p)	-	0.04	- %
			$V_{CC} = 9.0V$; $V_i = 8.0V$ (p-p)	-	0.02	- %
		$f_i = 1\text{kHz}$; $R_L = 10\text{k}\Omega$; $C_L = 50\text{pF}$; see Figure 11	$V_{CC} = 4.5V$; $V_i = 4.0V$ (p-p)	-	0.12	- %
			$V_{CC} = 9.0V$; $V_i = 8.0V$ (p-p)	-	0.06	- %
isolation (OFF-state)	a_{iso}	$R_L = 600\Omega$; $C_L = 50\text{pF}$; $f_i = 1\text{MHz}$; see Figure 12 ^[1]	$V_{CC} = 4.5V$	-	-50	- dB
			$V_{CC} = 9.0V$	-	-50	- dB
-3 dB frequency response	$f_{(-3dB)}$	$R_L = 50\Omega$; $C_L = 10\text{pF}$; see Figure 13 ^[2]	$V_{CC} = 4.5V$	-	180	- dB
			$V_{CC} = 9.0V$	-	200	- dB
crosstalk voltage	V_{ct}	between digital input and switch (peak to peak value); $R_L = 600\Omega$; $C_L = 50\text{pF}$; $f_i = 1\text{MHz}$; see Figure 14	$V_{CC} = 4.5V$	-	110	- mV
			$V_{CC} = 9.0V$	-	220	- mV



crosstalk	Xtalk	between switches; $R_L=600\Omega$; $C_L=50\text{pF}$; $f_i=1\text{MHz}$; see Figure 15 ^[1]	$V_{CC}=4.5\text{V}$	-	-60	-	dB
			$V_{CC}=9.0\text{V}$	-	-60	-	dB

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). After set-up, f_i is increased to obtain a reading of -3dB at V_{os} .

4、Testing Circuit

4.1、DC Testing Circuit 1

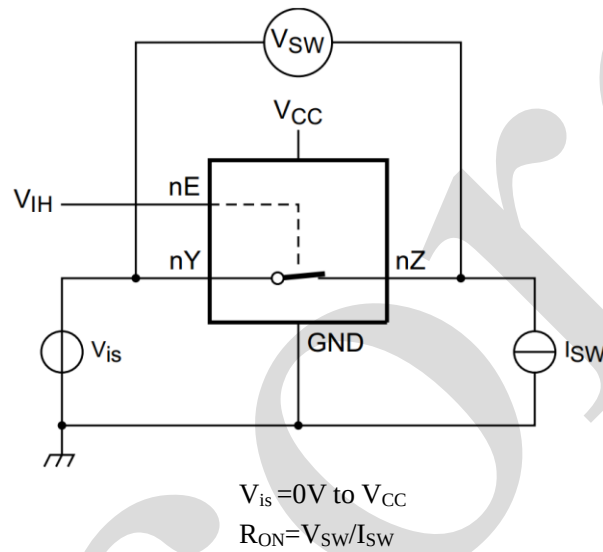


Figure 5. Test circuit for measuring R_{ON}

4.2、DC Testing Circuit 2

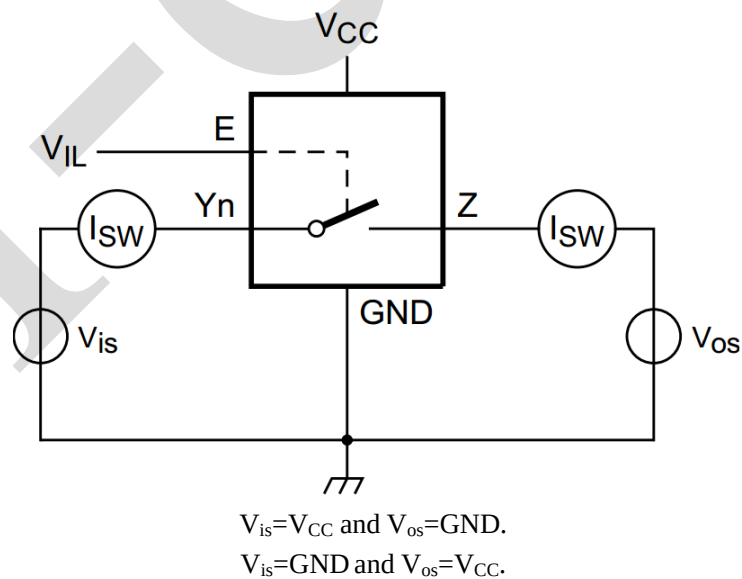
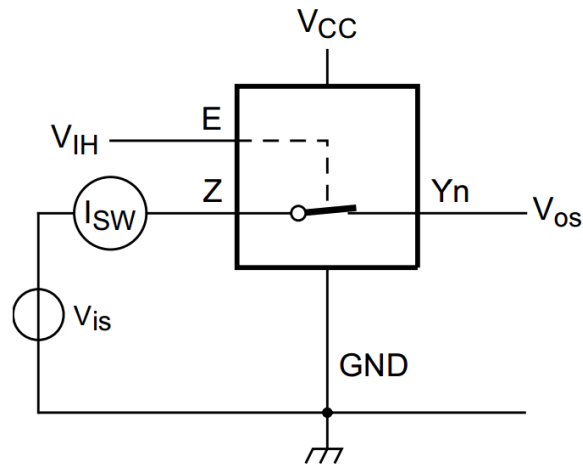


Figure 6. Test circuit for measuring OFF-state leakage current



$V_{is}=V_{CC}$ and $V_{os}=open$

$V_{is}=GND$ and $V_{os}=open$

Figure 7. Test circuit for measuring ON-state leakage current

4.3、AC Testing Waveforms

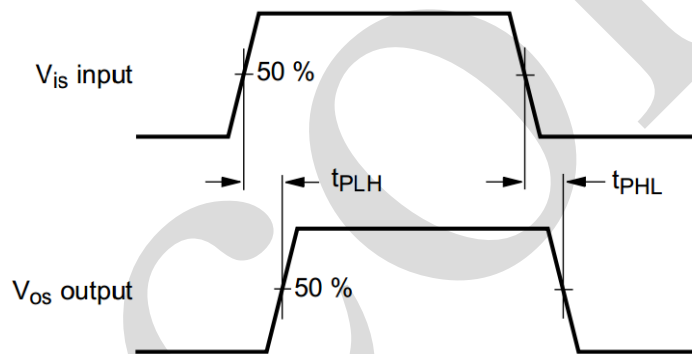


Figure 8. Input (V_{is}) to output (V_{os}) propagation delays

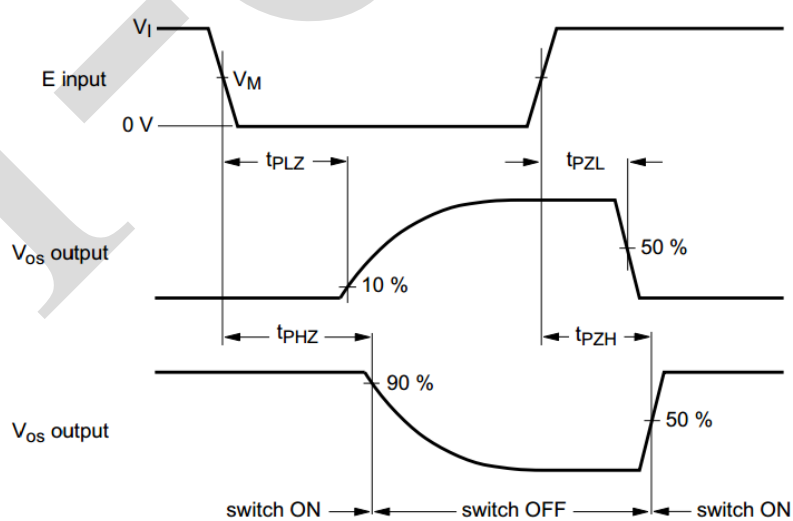


Figure 9. Turn-on and turn-off times

4.4、 Measurement Points

Type	V _I	V _M
AiP74HC4066	V _{CC}	0.5V _{CC}
AiP74HCT4066	3.0V	1.3V

4.5、 AC Testing Circuit 1

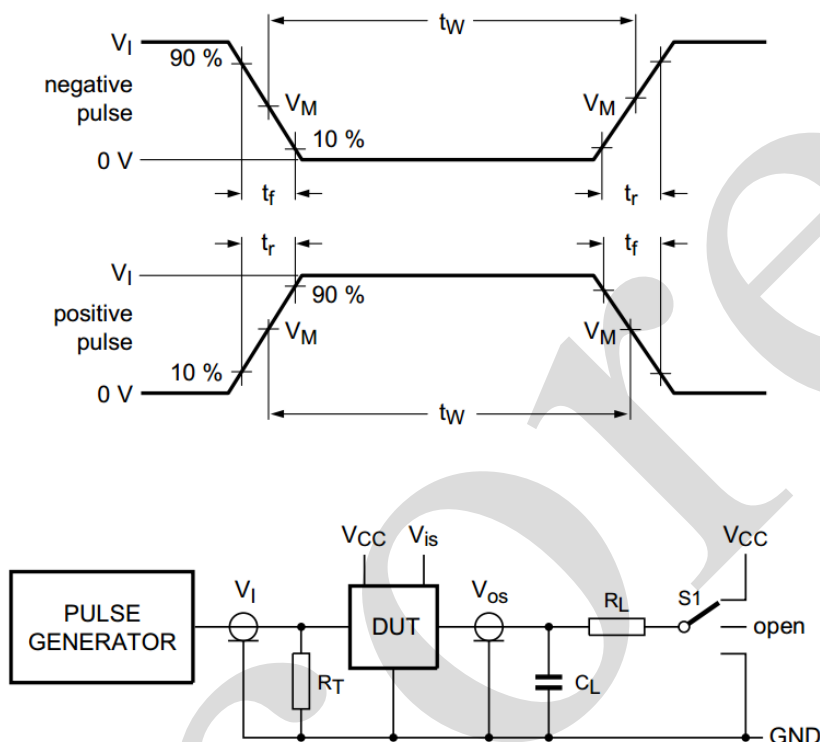


Figure 10. Test circuit for measuring switching times

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.

4.6、 Test Data

Test	Input			Output		S1 position
	Control E	Switch Yn (Z)	t_r, t_f	Switch Z (Yn)		
	$V_I^{[1]}$	V_{is}		C_L	R_L	
t_{PHL}, t_{PLH}	GND	GND to V_{CC}	6ns	50pF	-	open
t_{PZH}, t_{PHZ}	GND to V_{CC}	V_{CC}	6ns	50pF, 15pF	1k Ω	GND
t_{PZL}, t_{PLZ}	GND to V_{CC}	GND	6ns	50pF, 15pF	1k Ω	V_{CC}

Note:

[1] For AiP74HCT4066: maximum input voltage $V_I = 3.0V$.



4.7、AC Testing Circuit 2

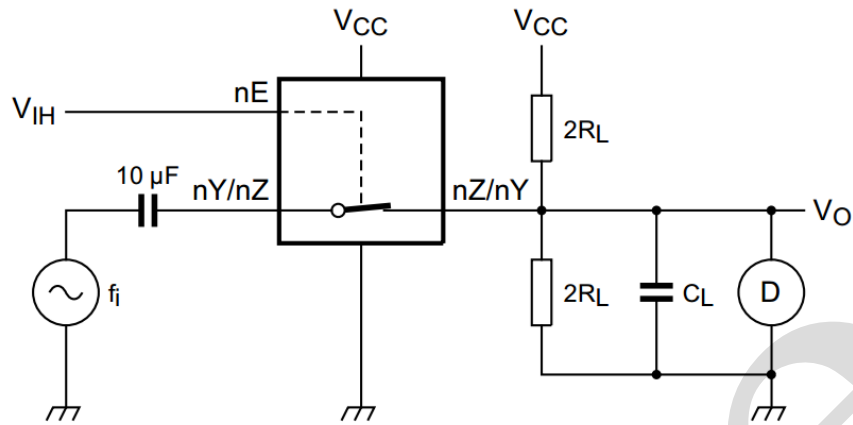
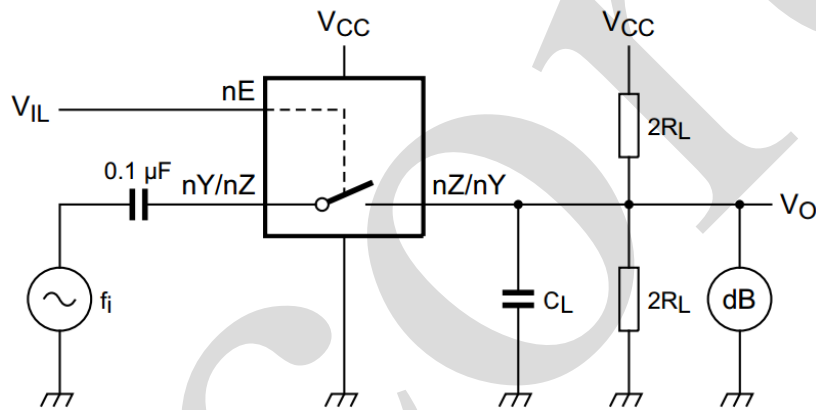
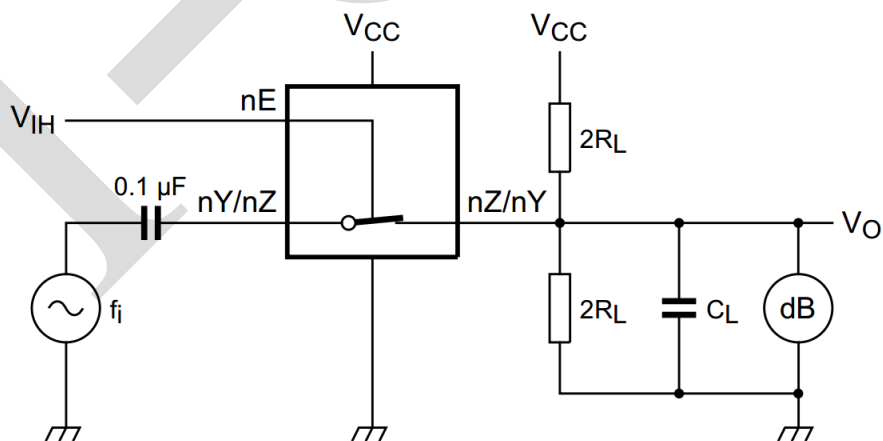


Figure 11. Test circuit for measuring total harmonic distortion



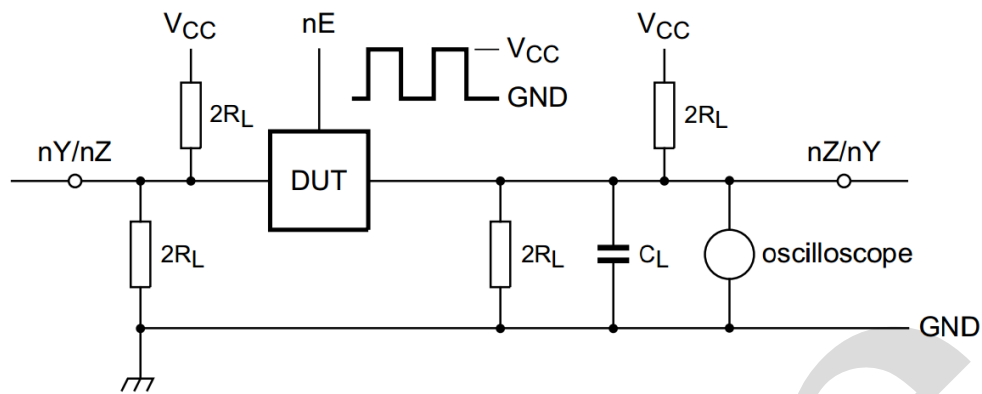
$V_{CC}=4.5V$; $GND=0V$; $R_L=600\Omega$; $R_{source}=1k\Omega$.

Figure 12. Isolation (OFF-state) as a function of frequency

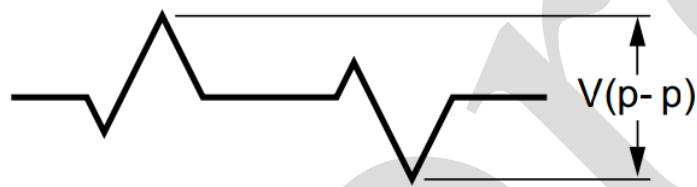


$V_{CC}=4.5V$; $GND=0V$; $R_L=50\Omega$; $R_{source}=1k\Omega$.

Figure 13. -3 dB frequency response



a. Circuit



b. Crosstalk voltage

Figure 14. Test circuit for measuring crosstalk voltage (between the digital input and the switch)

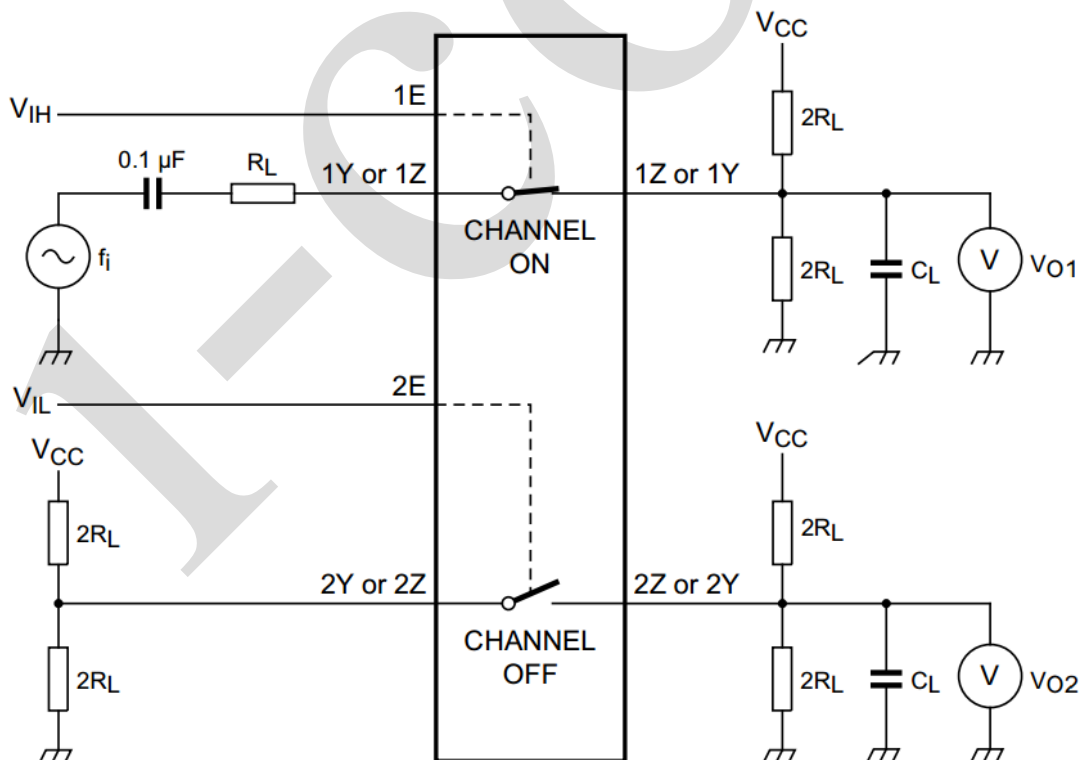
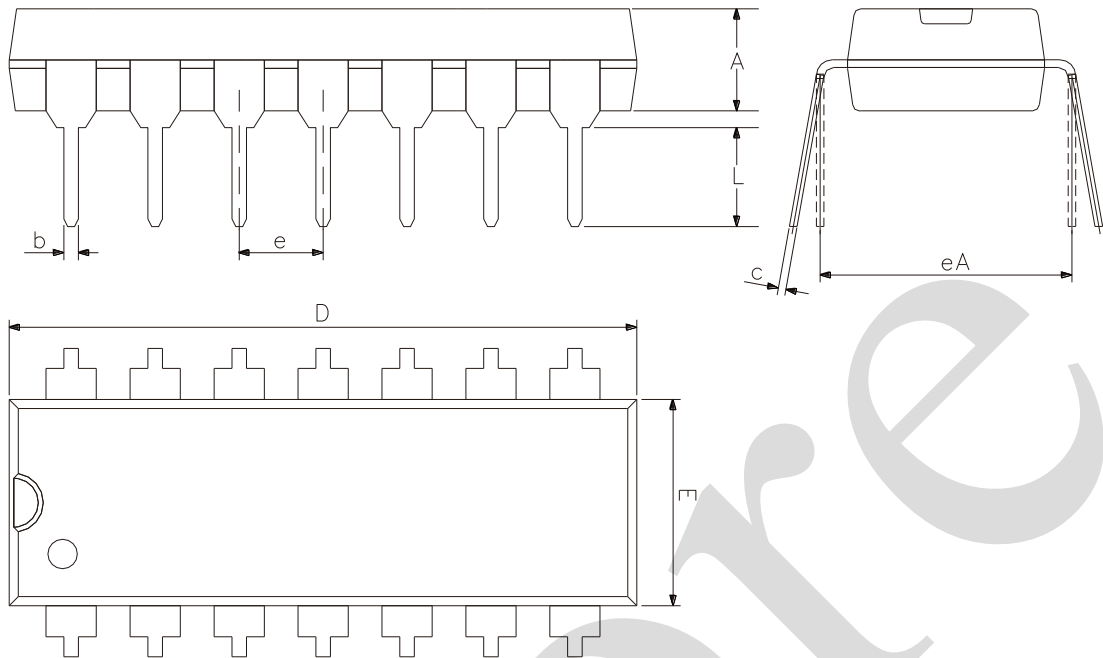


Figure 15. Test circuit for measuring crosstalk (between the switches)



5、Package Information

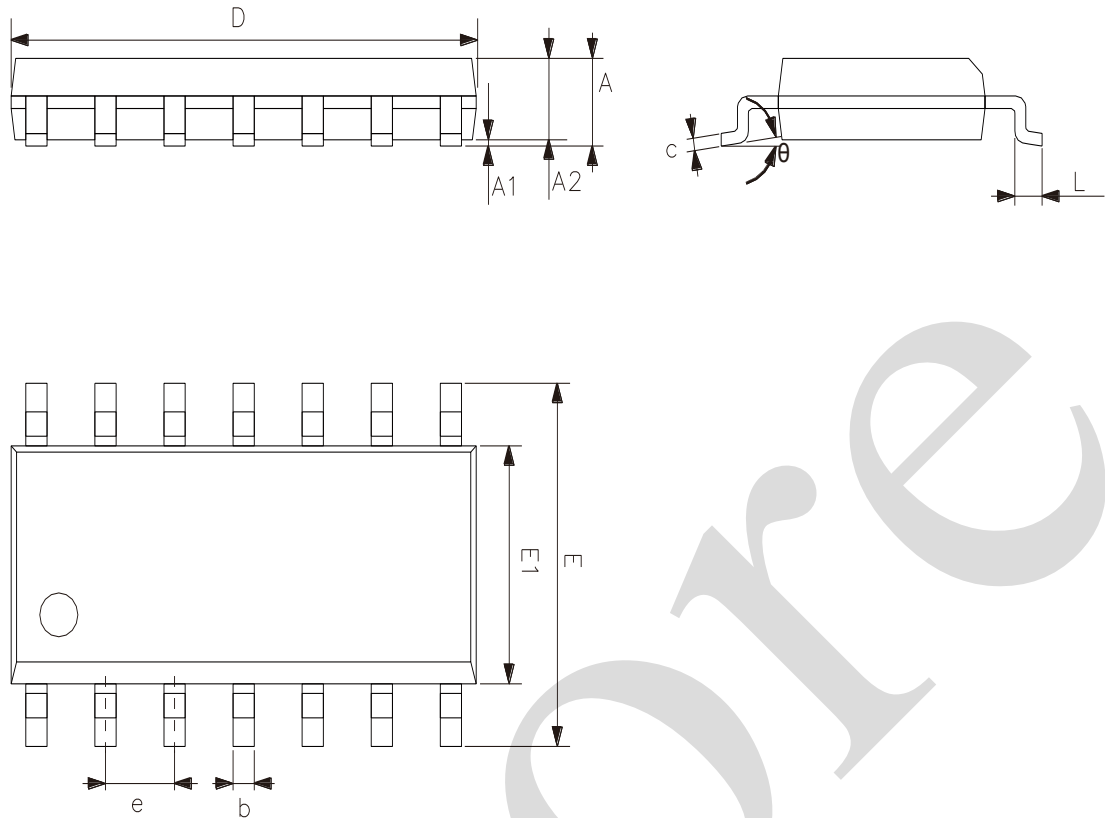
5.1、DIP14



2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	3.05	3.60
b	0.33	0.56
c	0.20	0.36
D	18.80	19.40
E	6.20	6.60
e	2.54	
eA	7.62	10.90
L	2.92	—



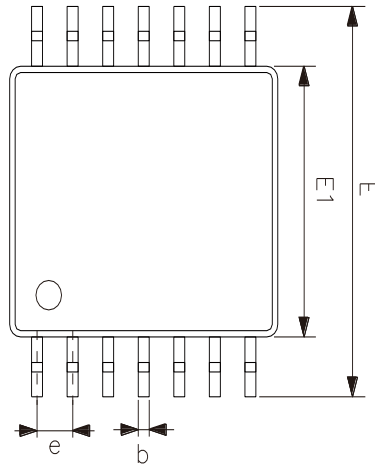
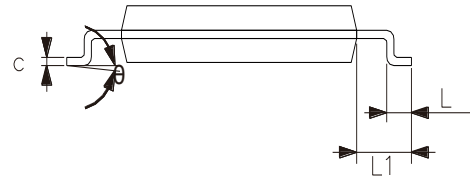
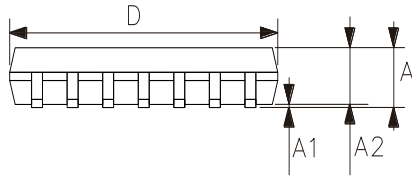
5.2、SOP14



2023/12/A	Dimensions In Millimeters	
Symbol	Min.	Max.
A	1.50	1.75
A1	0.05	0.25
A2	1.30	—
b	0.33	0.50
c	0.19	0.25
D	8.43	8.76
E	5.80	6.25
E1	3.75	4.00
e	1.27	
L	0.40	0.89
θ	0°	8°

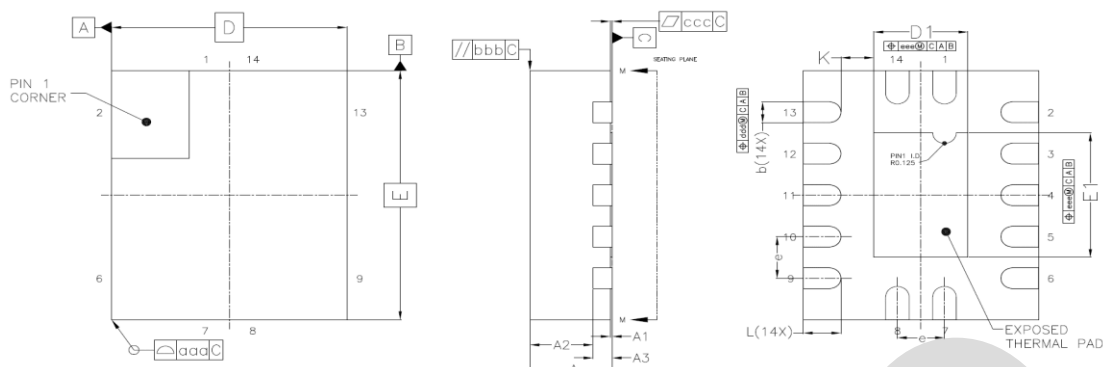


5.3、TSSOP14



2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	—	1.20
A1	0.05	0.15
A2	0.80	1.05
b	0.19	0.30
c	0.09	0.20
D	4.90	5.10
E1	4.30	4.50
E	6.20	6.60
e	0.65	
L	0.45	0.75
L1	1.00	
θ	0°	8°

5.4、DHVQFN14



2024/10/A	Dimensions In Millimeters	
Symbol	Min	Max
A	0.80	1.00
A1	0	0.05
A2	0.60	0.70
A3	0.203 REF	
D	2.40	2.60
E	2.90	3.10
e	0.50	
b	0.18	0.30
L	0.30	0.50
D1	0.85	1.15
E1	1.35	1.65
K	0.35	



6、Statements And Notes

6.1、The name and content of Hazardous substances or Elements in the product

Part name	Hazardous substances or Elements									
	Lead and lead compounds	Mercury and mercury compounds	Cadmium and cadmium compounds	Hexavalent chromium compounds	Polybrominated biphenyls	Polybrominated biphenyl ethers	Dibutyl phthalate	Butylbenzyl phthalate	Di-2-ethylhexyl phthalate	Diisobutyl phthalate
Lead frame	○	○	○	○	○	○	○	○	○	○
Plastic resin	○	○	○	○	○	○	○	○	○	○
Chip	○	○	○	○	○	○	○	○	○	○
The lead	○	○	○	○	○	○	○	○	○	○
Plastic sheet installed	○	○	○	○	○	○	○	○	○	○
explanation	○: Indicates that the content of hazardous substances or elements in the detection limit of the following the SJ/T11363-2006 standard. ×: Indicates that the content of hazardous substances or elements exceeding the SJ/T11363-2006 Standard limit requirements.									

6.2、Notes

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