



AiP74LV48752

Dual 4-channel Analog Multiplexer/Demultiplexer

Product Specification

Specification Revision History:

Version	Date	Description
2025-03-A0	2025-03	New
2025-05-A1	2025-05	Modify the parameters



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1、General Description

The AiP74LV48752 is a dual 4-channel analog multiplexer/demultiplexer with a common select logic. Each multiplexer has four independent inputs/outputs (nY0 to nY3) and a common input/output (nZ). The common channel select logics include two digital select inputs (S0 and S1) and an active LOW enable input ($\bar{E}$). With $\bar{E}$ LOW, one of the four switches is selected (low impedance ON-state) by S0 and S1. With $\bar{E}$ HIGH, all switches are in the high impedance OFF-state, independent of S0 and S1.

V_{CC} and GND are the supply voltage pins for the digital control inputs (S0, S1 and $\bar{E}$). The V_{CC} to GND ranges are 2.0V to 6.0V. The analog inputs/outputs (nY0, to nY3, and nZ) can swing between V_{CC} as a positive limit. V_{CC} may not exceed 6.0V.

Features:

- Optimized for low-voltage applications: 2.0V to 6.0V
- Accepts TTL input levels between $V_{CC}=2.7V$ and $V_{CC}=3.6V$
- Low ON resistance:
 - 110 Ω (typical) at $V_{CC}=2.0V$
 - 90 Ω (typical) at $V_{CC}=3.0V$
 - 60 Ω (typical) at $V_{CC}=4.5V$
- Logic level translation: to enable 3V logic to communicate with $\pm 3V$ analog signals
- Typical 'break before make' built in
- Specified from -40°C to +125°C
- Packaging information: SOP16/SSOP16/TSSOP16/QFN16

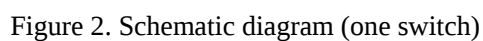
Ordering Information:

Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74LV48752SA16.TR	SOP16	74LV48752	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
AiP74LV48752VB16.TR	SSOP16	74LV48752	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 4.9mm×3.9mm Pin spacing: 0.635mm
AiP74LV48752TA16.TR	TSSOP16	74LV48752	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
AiP74LV48752QA16.TR	QFN16	74LV48752	6000 PCS/reel	12000 PCS/box	Dimensions of plastic enclosure: 3.0mm×3.0mm Pin spacing: 0.5mm

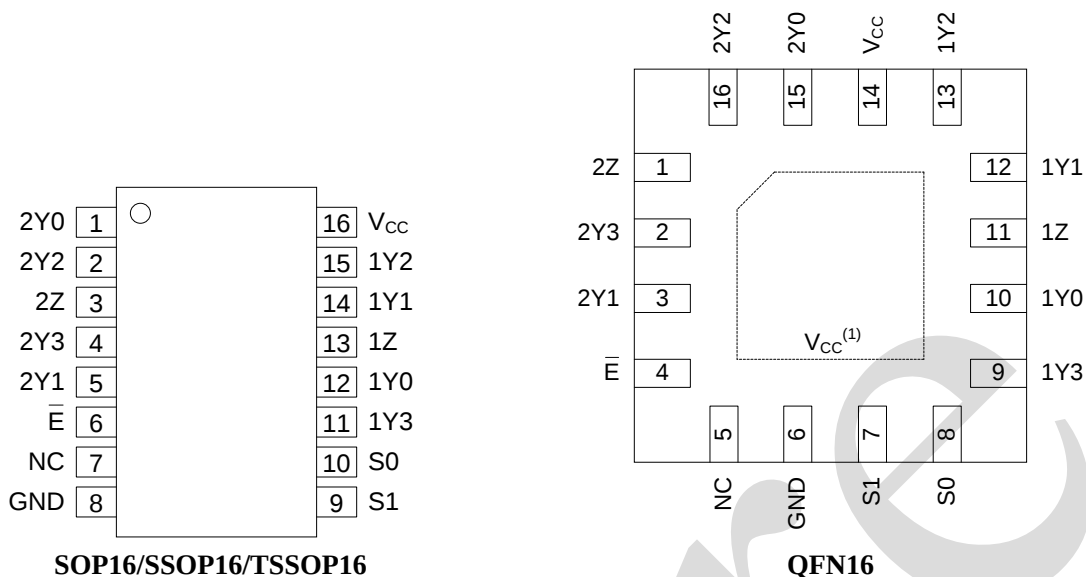
Note: If the physical information is inconsistent with the ordering information, please refer to the actual product.

2.1、 Block Diagram





2.2、Pin Configurations



Note:

(1) This is not a supply pin. The substrate is attached to this pad using conductive die attach material. There is no electrical or mechanical requirement to solder this pad. However, if it is soldered, the solder land should remain floating or be connected to V_{CC}.

2.3、Pin Description

Pin No.		Pin Name	Description
SOP16/SSOP16/TSSOP16	QFN16		
1	15	2Y0	independent input or output
2	16	2Y2	independent input or output
3	1	2Z	common output or input
4	2	2Y3	independent input or output
5	3	2Y1	independent input or output
6	4	$\bar{E}$	enable input (active LOW)
7	5	NC	not connect
8	6	GND	ground (0V)
9	7	S1	select input
10	8	S0	select input
11	9	1Y3	independent input or output
12	10	1Y0	independent input or output
13	11	1Z	common output or input
14	12	1Y1	independent input or output
15	13	1Y2	independent input or output
16	14	V _{CC}	supply voltage



2.4、Function Table

Input			Channel ON
$\bar{E}$	S1	S0	
L	L	L	nY0 to nZ
L	L	H	nY1 to nZ
L	H	L	nY2 to nZ
L	H	H	nY3 to nZ
H	X	X	none

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

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}	-	-0.5	+7.0	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}	$V_{SW} > -0.5V$ or $V_{SW} < V_{CC} + 0.5V$; source or sink current	-	± 25	mA
storage temperature	T_{stg}	-	-65	+150	°C
total power dissipation	P_{tot}	-	-	500	mW
soldering temperature	T_L	10s	260		°C

3.2、Recommended Operating Conditions

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
supply voltage	V_{CC}	-	2	3.3	6	V
input voltage	V_I	-	0	-	V_{CC}	V
switch voltage	V_{SW}	-	0	-	V_{CC}	V
ambient temperature	T_{amb}	in free air	-40	-	+125	°C
input transition rise and fall rate	$\Delta t / \Delta V$	$V_{CC} = 2.0V$ to $2.7V$	-	-	200	ns/V
		$V_{CC} = 2.7V$ to $6.0V$	-	-	100	ns/V



3.3、Electrical Characteristics

3.3.1、DC Characteristics 1

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

Parameter	Symbol	Conditions (V)		Min.	Typ.	Max.	Unit
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0\text{V}$		1.4	-	-	V
		$V_{CC}=2.7\text{V to }3.6\text{V}$		2.0	-	-	V
		$V_{CC}=4.5\text{V}$		3.15	-	-	V
		$V_{CC}=6.0\text{V}$		4.20	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=2.0\text{V}$		-	-	0.6	V
		$V_{CC}=2.7\text{V to }3.6\text{V}$		-	-	0.8	V
		$V_{CC}=4.5\text{V}$		-	-	1.35	V
		$V_{CC}=6.0\text{V}$		-	-	1.80	V
input leakage current	I_I	$V_I = V_{CC}$ or GND	$V_{CC}=3.6\text{V}$	-	-	1.0	μA
			$V_{CC}=6.0\text{V}$	-	-	2.0	μA
OFF-state leakage current	$I_{S(OFF)}$	$V_I = V_{IH}$ or V_{IL} ; see Figure 13	$V_{CC}=3.6\text{V}$	-	-	1.0	μA
			$V_{CC}=6.0\text{V}$	-	-	2.0	μA
ON-state leakage current	$I_{S(ON)}$	$V_I = V_{IH}$ or V_{IL} ; see Figure 14	$V_{CC}=3.6\text{V}$	-	-	1.0	μA
			$V_{CC}=6.0\text{V}$	-	-	2.0	μA
supply current	I_{CC}	$V_I = V_{CC}$ or GND; $I_O = 0\text{A}$	$V_{CC}=3.6\text{V}$	-	-	20	μA
			$V_{CC}=6.0\text{V}$	-	-	40	μA
additional supply current	ΔI_{CC}	per input; $V_I = V_{CC} - 0.6\text{V}$; $V_{CC} = 2.7\text{V to }3.6\text{V}$		-	-	500	μA
ON resistance (peak)	$R_{ON(peak)}$	$V_I = 0\text{V to }V_{CC}$	$V_{CC} = 2.0\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	290	650	Ω
			$V_{CC} = 2.7\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	150	300	Ω
			$V_{CC} = 3.0\text{V to }3.6\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	100	200	Ω
			$V_{CC} = 4.5\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	80	160	Ω
			$V_{CC} = 6.0\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	65	130	Ω
ON resistance mismatch between channels	ΔR_{ON}	$V_I = 0\text{V to }V_{CC}$	$V_{CC} = 2.0\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	5	-	Ω
			$V_{CC} = 2.7\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	4	-	Ω
			$V_{CC} = 3.0\text{V to }3.6\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	4	-	Ω
			$V_{CC} = 4.5\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	3	-	Ω
			$V_{CC} = 6.0\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	2	-	Ω
ON resistance (rail)	$R_{ON(rail)}$	$V_I = \text{GND}$	$V_{CC} = 2.0\text{V}$; $I_{SW} = 1000\mu\text{A}$	-	110	235	Ω



			$V_{CC}=2.7V$; $I_{SW}=1000\mu A$	-	85	170	Ω
			$V_{CC}=3.0V$ to $3.6V$; $I_{SW}=1000\mu A$	-	65	130	Ω
			$V_{CC}=4.5V$; $I_{SW}=1000\mu A$	-	60	120	Ω
			$V_{CC}=6.0V$; $I_{SW}=1000\mu A$	-	50	100	Ω
		$V_I=V_{CC}$	$V_{CC}=2.0V$; $I_{SW}=1000\mu A$	-	150	320	Ω
			$V_{CC}=2.7V$; $I_{SW}=1000\mu A$	-	110	220	Ω
			$V_{CC}=3.0V$ to $3.6V$; $I_{SW}=1000\mu A$	-	85	170	Ω
			$V_{CC}=4.5V$; $I_{SW}=1000\mu A$	-	70	140	Ω
			$V_{CC}=6.0V$; $I_{SW}=1000\mu A$	-	60	120	Ω

Note:

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

3.3.2、DC Characteristics 2

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

Parameter	Symbol	Conditions (V)		Min.	Typ.	Max.	Unit
HIGH-level input voltage	V_{IH}	$V_{CC}=2.0V$		1.4	-	-	V
		$V_{CC}=2.7V$ to $3.6V$		2.0	-	-	V
		$V_{CC}=4.5V$		3.15	-	-	V
		$V_{CC}=6.0V$		4.20	-	-	V
LOW-level input voltage	V_{IL}	$V_{CC}=2.0V$		-	-	0.6	V
		$V_{CC}=2.7V$ to $3.6V$		-	-	0.8	V
		$V_{CC}=4.5V$		-	-	1.35	V
		$V_{CC}=6.0V$		-	-	1.80	V
input leakage current	I_I	$V_I=V_{CC}$ or GND	$V_{CC}=3.6V$	-	-	2.0	μA
			$V_{CC}=6.0V$	-	-	4.0	μA
OFF-state leakage current	$I_{S(OFF)}$	$V_I=V_{IH}$ or V_{IL} ; see Figure 13	$V_{CC}=3.6V$	-	-	2.0	μA
			$V_{CC}=6.0V$	-	-	4.0	μA
ON-state leakage current	$I_{S(ON)}$	$V_I=V_{IH}$ or V_{IL} ; see Figure 14	$V_{CC}=3.6V$	-	-	2.0	μA
			$V_{CC}=6.0V$	-	-	4.0	μA
supply current	I_{CC}	$V_I=V_{CC}$ or GND; $I_O=0A$	$V_{CC}=3.6V$	-	-	40	μA
			$V_{CC}=6.0V$	-	-	80	μA
additional supply current	ΔI_{CC}	per input; $V_I=V_{CC}-0.6V$; $V_{CC}=2.7V$ to $3.6V$		-	-	850	μA
ON resistance (peak)	$R_{ON(peak)}$	$V_I=0V$ to V_{CC}	$V_{CC}=2.0V$; $I_{SW}=1000\mu A$	-	-	750	Ω



			$V_{CC}=2.7V;$ $I_{SW}=1000uA$	-	-	350	Ω
			$V_{CC}=3.0V$ to $3.6V;$ $I_{SW}=1000uA$	-	-	250	Ω
			$V_{CC}=4.5V;$ $I_{SW}=1000uA$	-	-	200	Ω
			$V_{CC}=6.0V;$ $I_{SW}=1000uA$	-	-	150	Ω
ON resistance (rail)	$R_{ON(rail)}$	$V_I=GND$	$V_{CC}=2.0V;$ $I_{SW}=1000uA$	-	-	750	Ω
			$V_{CC}=2.7V;$ $I_{SW}=1000uA$	-	-	270	Ω
			$V_{CC}=3.0V$ to $3.6V;$ $I_{SW}=1000uA$	-	-	200	Ω
			$V_{CC}=4.5V;$ $I_{SW}=1000uA$	-	-	150	Ω
			$V_{CC}=6.0V;$ $I_{SW}=1000uA$	-	-	140	Ω
		$V_I=V_{CC}$	$V_{CC}=2.0V;$ $I_{SW}=1000uA$	-	-	120	Ω
			$V_{CC}=2.7V;$ $I_{SW}=1000uA$	-	-	370	Ω
			$V_{CC}=3.0V$ to $3.6V;$ $I_{SW}=1000uA$	-	-	250	Ω
			$V_{CC}=4.5V;$ $I_{SW}=1000uA$	-	-	205	Ω
			$V_{CC}=6.0V;$ $I_{SW}=1000uA$	-	-	150	Ω



3.3.3、AC Characteristics 1

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
propagation delay	t_{pd}	nYn to nZ, nZ to nYn; see Figure 4	$V_{CC}=2.0V$	-	9	17	ns
			$V_{CC}=2.7V$	-	6	13	ns
			$V_{CC}=3.0V$ to $3.6V$	-	5	10	ns
			$V_{CC}=4.5V$	-	4	9	ns
			$V_{CC}=6.0V$	-	3	7	ns
enable time	t_{en}	$\bar{E}$, Sn to nYn, nZ; see Figure 5	$V_{CC}=2.0V$	-	65	121	ns
			$V_{CC}=2.7V$	-	48	89	ns
			$V_{CC}=3.0V$ to $3.6V$; $C_L=15pF$	-	30	-	ns
			$V_{CC}=3.0V$ to $3.6V$	-	36	71	ns
			$V_{CC}=4.5V$	-	32	60	ns
			$V_{CC}=6.0V$	-	25	46	ns
disable time	t_{dis}	$\bar{E}$, Sn to nYn, nZ; see Figure 5	$V_{CC}=2.0V$	-	43	80	ns
			$V_{CC}=2.7V$	-	33	59	ns
			$V_{CC}=3.0V$ to $3.6V$; $C_L=15pF$	-	22	-	ns
			$V_{CC}=3.0V$ to $3.6V$	-	26	48	ns
			$V_{CC}=4.5V$	-	23	41	ns
			$V_{CC}=6.0V$	-	28	32	ns

Note:

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

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

t_{en} is the same as t_{PZL} and t_{PZH} .

t_{dis} is the same as t_{PLZ} and t_{PHZ} .



3.3.4、AC Characteristics 2

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

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
propagation delay	t_{pd}	nYn to nZ, nZ to nYn; see Figure 4	$V_{CC}=2.0V$	-	-	20	ns
			$V_{CC}=2.7V$	-	-	15	ns
			$V_{CC}=3.0V$ to $3.6V$	-	-	12	ns
			$V_{CC}=4.5V$	-	-	10	ns
			$V_{CC}=6.0V$	-	-	8	ns
enable time	t_{en}	$\bar{E}$, Sn to nYn, nZ; see Figure 5	$V_{CC}=2.0V$	-	-	146	ns
			$V_{CC}=2.7V$	-	-	108	ns
			$V_{CC}=3.0V$ to $3.6V$	-	-	86	ns
			$V_{CC}=4.5V$	-	-	73	ns
			$V_{CC}=6.0V$	-	-	56	ns
disable time	t_{dis}	$\bar{E}$, Sn to nYn, nZ; see Figure 5	$V_{CC}=2.0V$	-	-	95	ns
			$V_{CC}=2.7V$	-	-	71	ns
			$V_{CC}=3.0V$ to $3.6V$	-	-	57	ns
			$V_{CC}=4.5V$	-	-	49	ns
			$V_{CC}=6.0V$	-	-	38	ns

Note:

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

t_{en} is the same as t_{PZL} and t_{PZH} .

t_{dis} is the same as t_{PLZ} and t_{PHZ} .

3.3.5、AC Characteristics 3

($T_{amb}=25^{\circ}\text{C}$, GND=0V, $t_r=t_f\leq 6.0\text{ns}$, $V_I=\text{GND}$ or V_{CC} , unless otherwise specified.)

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
total harmonic distortion	THD	f_i =1kHz; C_L =50pF; R_L =10k Ω ; see Figure 8	V_{CC} =3.0V; V_I =2.75V(p-p)	-	0.8	-	%
			V_{CC} =6.0V; V_I =5.5V(p-p)	-	0.4	-	%
		f_i =10kHz; C_L =50pF; R_L =10k Ω ; see Figure 8	V_{CC} =3.0V; V_I =2.75V(p-p)	-	2.4	-	%
			V_{CC} =6.0V; V_I =5.5V(p-p)	-	1.2	-	%
-3dB frequency response	$f_{(-3dB)}$	C_L =50pF; R_L =50 Ω ; see Figure 6	V_{CC} =3.0V	-	180	-	MHz
			V_{CC} =6.0V	-	200	-	MHz
isolation (OFF-state)	α_{iso}	f_i =1MHz; C_L =50pF; R_L =600 Ω ; see Figure 7	V_{CC} =3.0V	-	-50	-	dB
			V_{CC} =6.0V	-	-50	-	dB
crosstalk voltage	V_{ct}	between digital inputs and switch; f_i =1MHz; C_L =50pF; R_L =600 Ω ; see Figure 9	V_{CC} =3.0V	-	0.11	-	V
			V_{CC} =6.0V	-	0.12	-	V
crosstalk	Xtalk	between switches; f_i =1MHz; C_L =50pF; R_L =600 Ω ; see Figure 10	V_{CC} =3.0V	-	-60	-	dB
			V_{CC} =6.0V	-	-60	-	dB



Note:

- [1] To obtain 0dBm level at output for 1MHz (0dBm=1mW into 50Ω), adjust f_i voltage.
- [2] To obtain 0dBm level at output for 1MHz (0dBm=1mW into 600Ω), adjust f_i voltage.

4、Testing Circuit

4.1、AC Testing Circuit 1

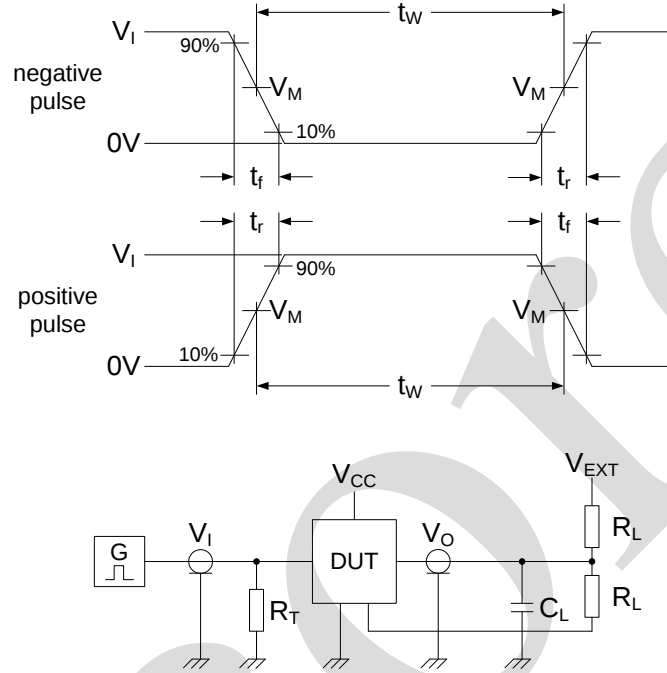


Figure 3. Test circuit for switching times

Definitions for test circuit:

C_L =Load capacitance including jig and probe capacitance.

R_T =Termination resistance should be equal to the output impedance Z_o of the pulse generator.

R_L =Load resistance.

V_{EXT} =External voltage for measuring switching times.



4.2、AC Testing Waveforms

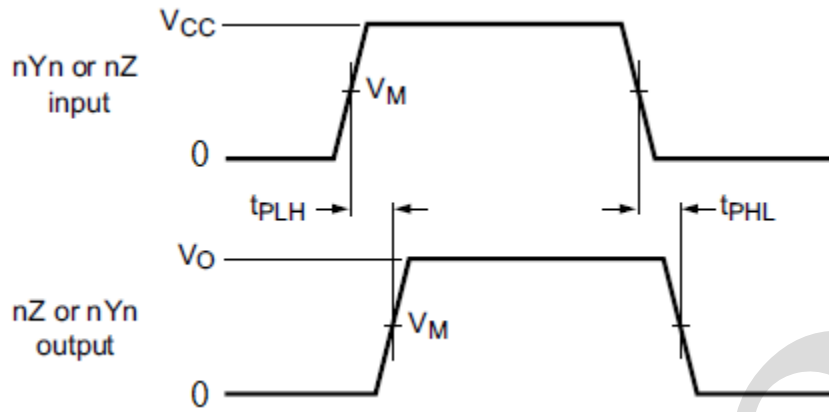


Figure 4. nYn, nZ to nZ, nYn propagation delays

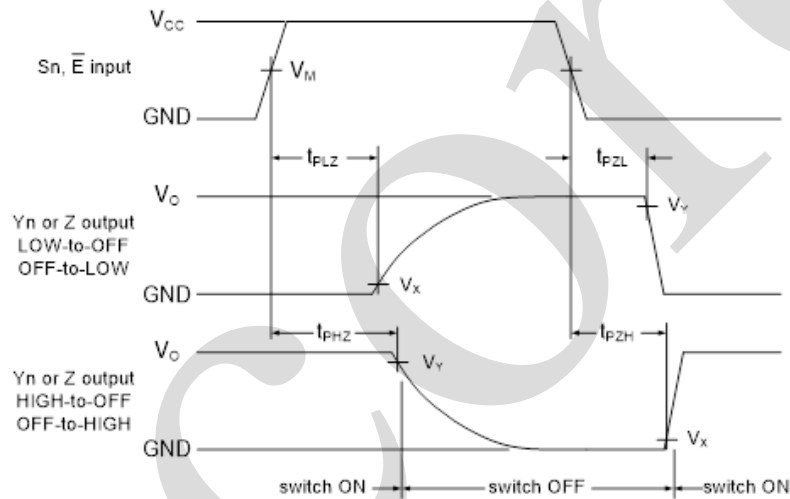


Figure 5. Enable and disable times

4.3、AC Testing Circuit 2

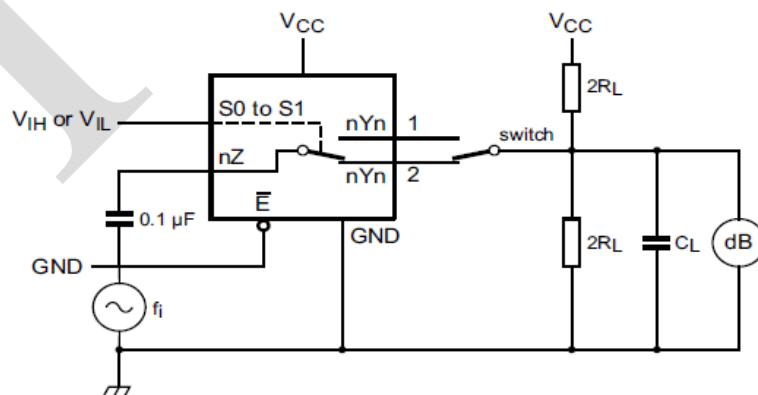


Figure 6. Test circuit for measuring frequency response

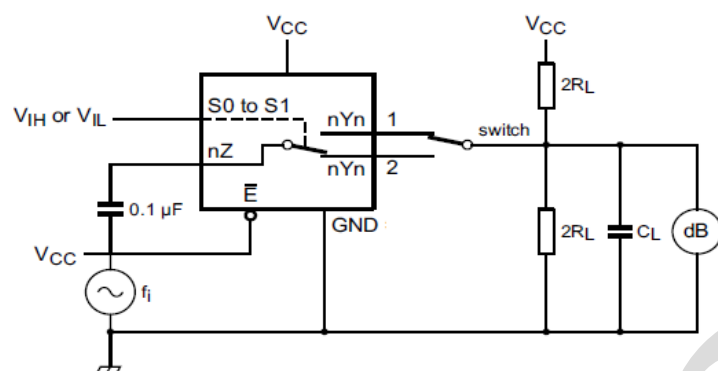


Figure 7. Test circuit for measuring isolation (OFF-state)

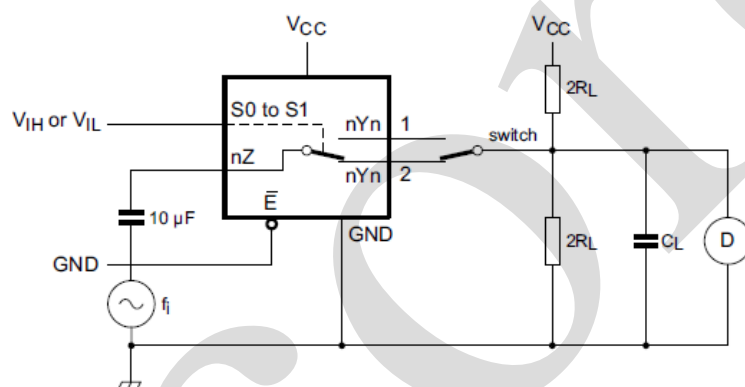
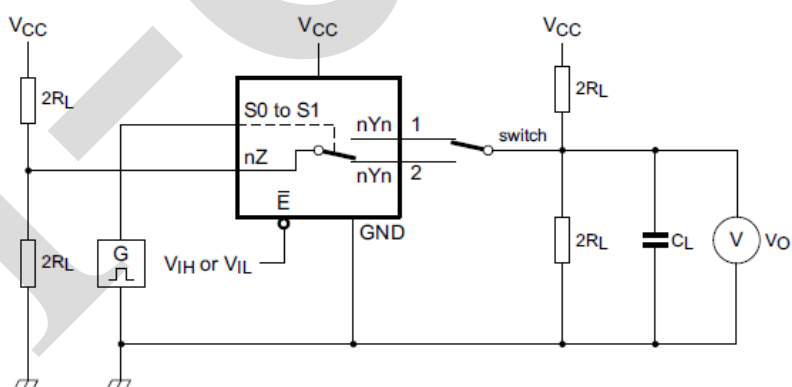
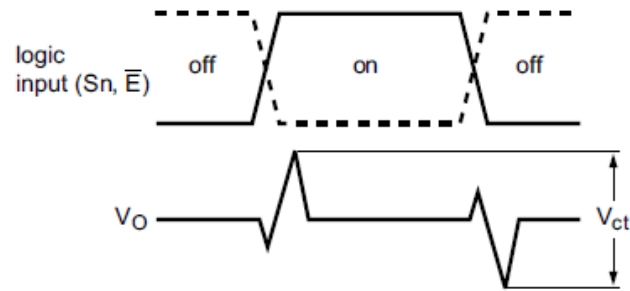


Figure 8. Test circuit for measuring total harmonic distortion



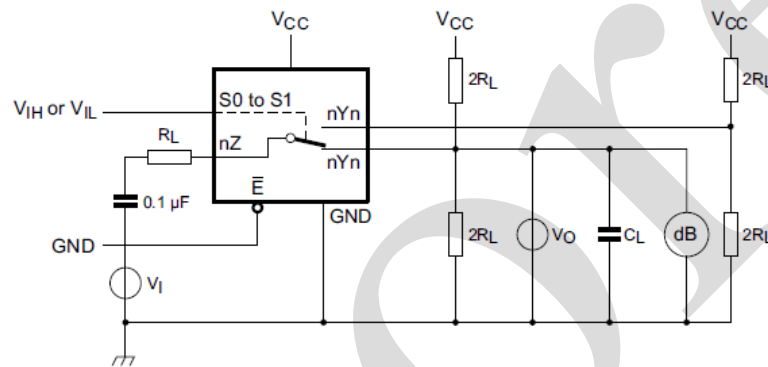
a. Test circuit



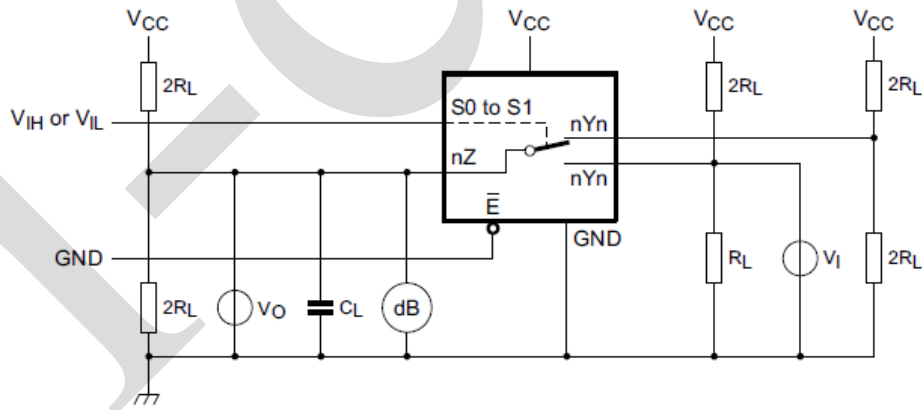
b. Input and output pulse definitions

V_I may be connected to S_n or $\bar{E}$.

Figure 9. Test circuit for measuring crosstalk voltage between digital inputs and switch



a. Switch on channel.

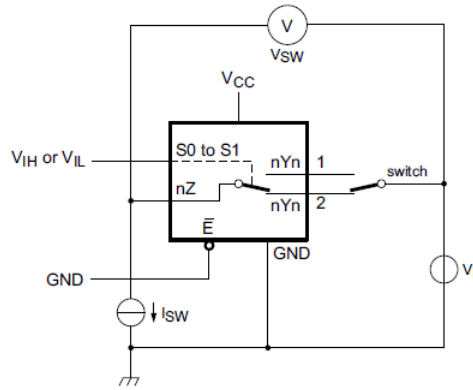


b. Switch off channel

Figure 10. Test circuit for measuring crosstalk between switches



4.4、On Resistance Waveform And Test Circuit



$$R_{ON} = V_{SW} / I_{SW}$$

Figure 11. Test circuit for measuring R_{ON}

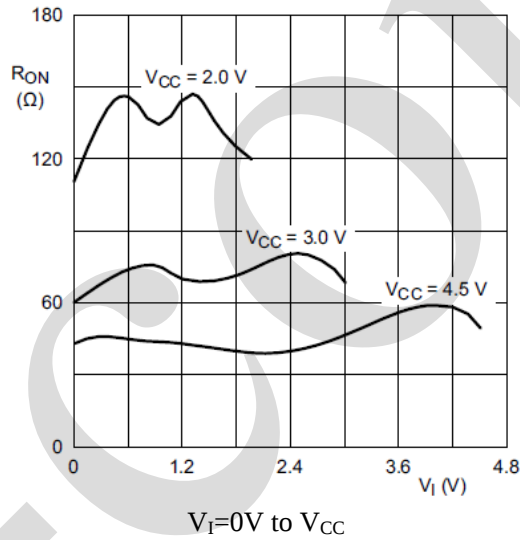
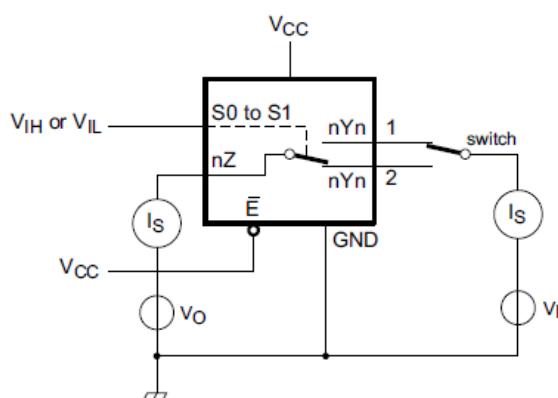


Figure 12. Typical R_{ON} as a function of input voltage

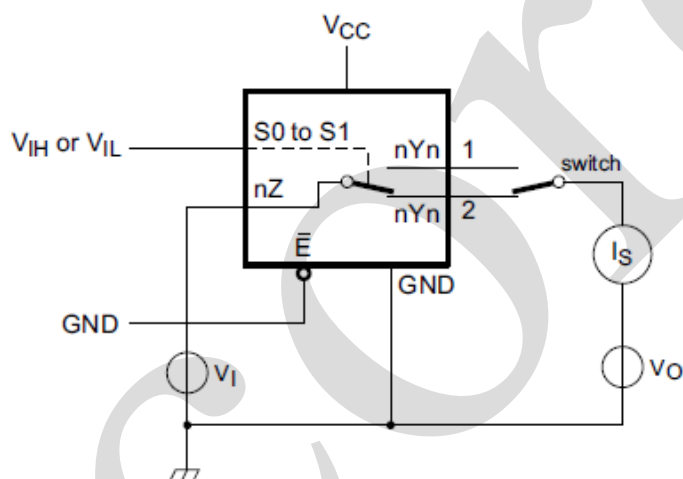


4.5、DC Testing Circuit



$$V_I = V_{CC} \text{ and } V_O = V_{CC}$$

Figure 13. Test circuit for measuring OFF-state leakage current



$$V_I = V_{CC} \text{ and } V_O = \text{open circuit}$$

Figure 14. Test circuit for measuring ON-state leakage current

4.6、Measurement Points

Supply voltage	Input	Output
V_{CC}	V_M	V_M
$<2.7V$	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
$2.7V \text{ to } 3.6V$	$1.5V$	$1.5V$
$>3.6V$	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$

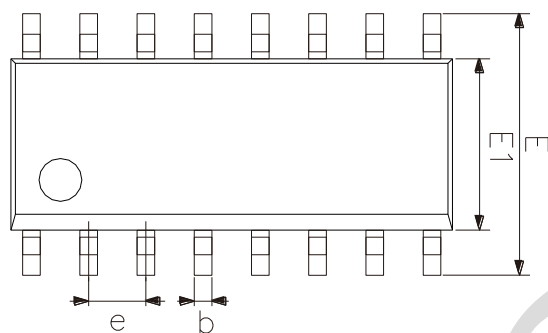
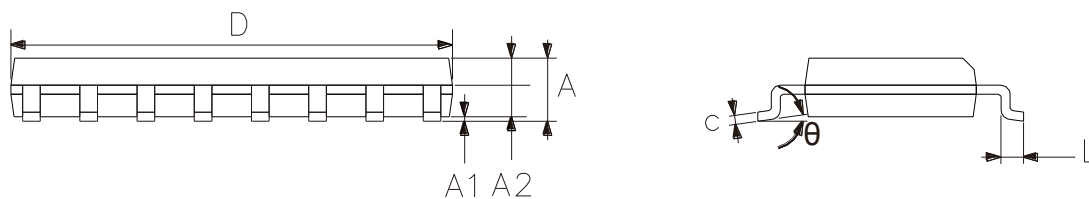
4.7、Test Data

Supply voltage	Input		Load		V_{EXT}		
V_{CC}	V_I	t_r, t_f	C_L	R_L	t_{PHL}, t_{PLH}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
$<2.7V$	V_{CC}	$\leq 6ns$	$50pF$	$1k\Omega$	open	GND	$2 \times V_{CC}$
$2.7V \text{ to } 3.6V$	$2.7V$	$\leq 6ns$	$15 pF, 50pF$	$1k\Omega$	open	GND	$2 \times V_{CC}$
$>3.6V$	V_{CC}	$\leq 6ns$	$50pF$	$1k\Omega$	open	GND	$2 \times V_{CC}$



5、Package Information

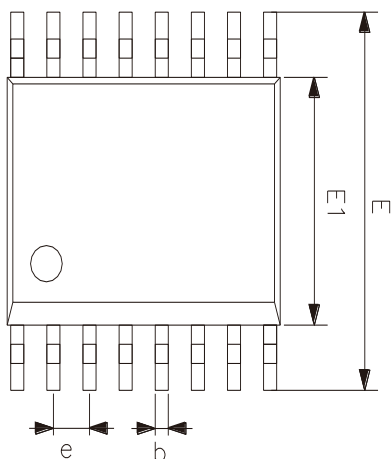
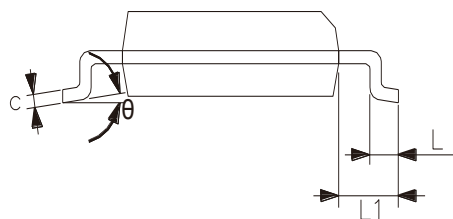
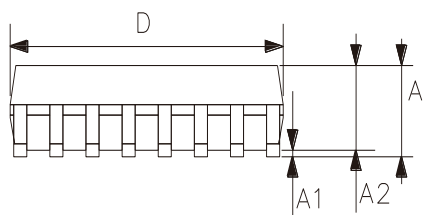
5.1、SOP16



2023/12/A	Dimensions In Millimeters	
Symbol	Min.	Max.
A	1.35	1.80
A1	0.10	0.25
A2	1.25	1.55
b	0.33	0.51
c	0.19	0.25
D	9.50	10.10
E	5.80	6.30
E1	3.70	4.10
e	1.27	
L	0.35	0.89
θ	0°	8°



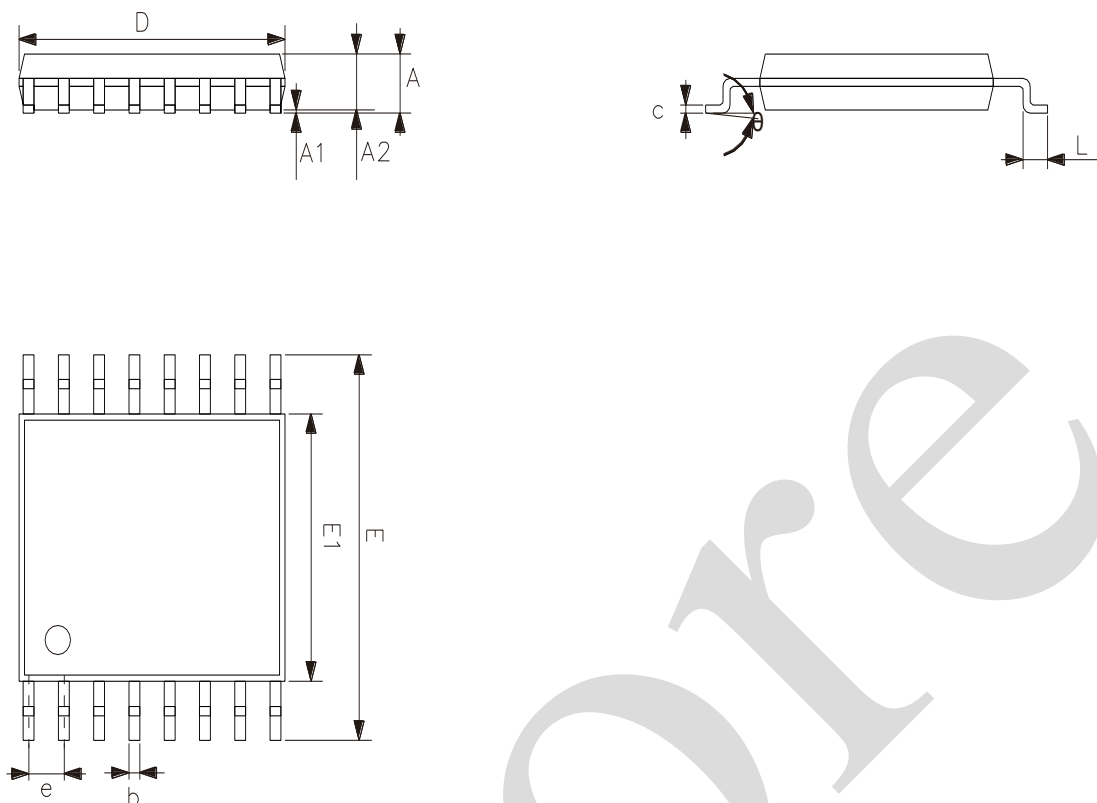
5.2、SSOP16



2023/12/A	Dimensions In Millimeters	
Symbol	Min	Max
A	—	1.75
A1	0.02	0.23
A2	1.30	1.50
b	0.23	0.31
c	0.20	0.24
D	4.70	5.10
E	5.80	6.25
E1	3.80	4.02
e	0.635	
L	0.45	0.80
L1	1.05	
θ	0°	8°



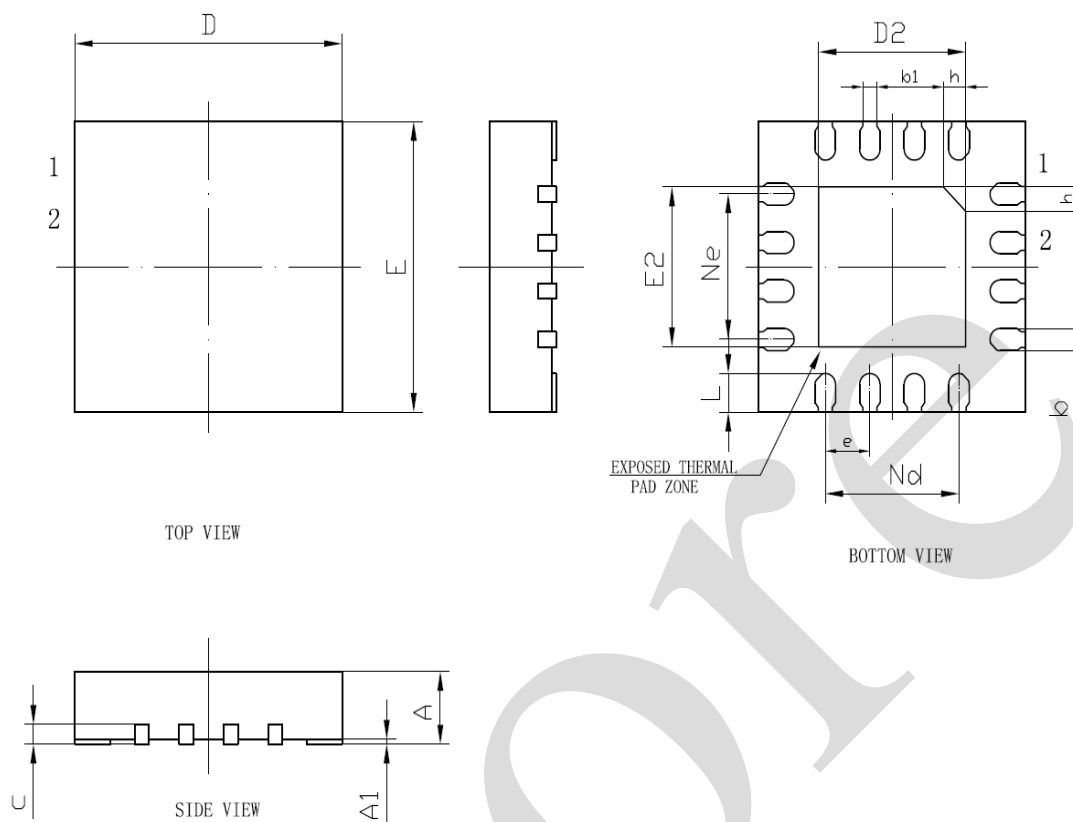
5.3、TSSOP16



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
θ	0°	8°



5.4、QFN16(3*3*0.75)-0.5



2024/01/B	Dimensions In Millimeters	
Symbol	Min	Max
A	0.70	0.80
A1	0	0.05
b	0.18	0.30
b1	0.16	
c	0.18	0.25
D	2.90	3.10
D2	1.55	1.80
e	0.50	
Ne	1.50	
Nd	1.50	
E	2.90	3.10
E2	1.55	1.80
L	0.30	0.50
h	0.20	0.45



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

We recommend you to read this chapter carefully before using this product.

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