AiP74LV48753
Triple 1-of-2 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

Contents

1、General Description

The AiP74LV48753 is a triple single-pole double-throw (SPDT) analog switch, suitable for use as an analog or digital multiplexer/demultiplexer.

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:
  150Ω (typical) at V_{CC} =2.0V
  95Ω (typical) at V_{CC} =3.0V
  75Ω (typical) at V_{CC} =4.5V
- Logic level translation: to enable 3V logic to communicate with ±3V analog signals
- Specified from -40℃ to +125℃
- Packaging information: SOP16/SSOP16/TSSOP16/QFN16

Ordering Information:

Reel packing specifications:

Part number	Packaging form	Marking code	Reel quantity	Boxed reel quantity	Notes
AiP74LV48753SA16.TR	SOP16	74LV48753	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 10.0mm×3.9mm Pin spacing: 1.27mm
AiP74LV48753VB16.TR	SSOP16	74LV48753	4000 PCS/reel	8000 PCS/box	Dimensions of plastic enclosure: 4.9mm×3.9mm Pin spacing: 0.635mm
AiP74LV48753TA16.TR	TSSOP16	74LV48753	5000 PCS/reel	10000 PCS/box	Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm
AiP74LV48753QA16.TR	QFN16	74LV48753	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、Block Diagram And Pin Description

2.1、Block Diagram

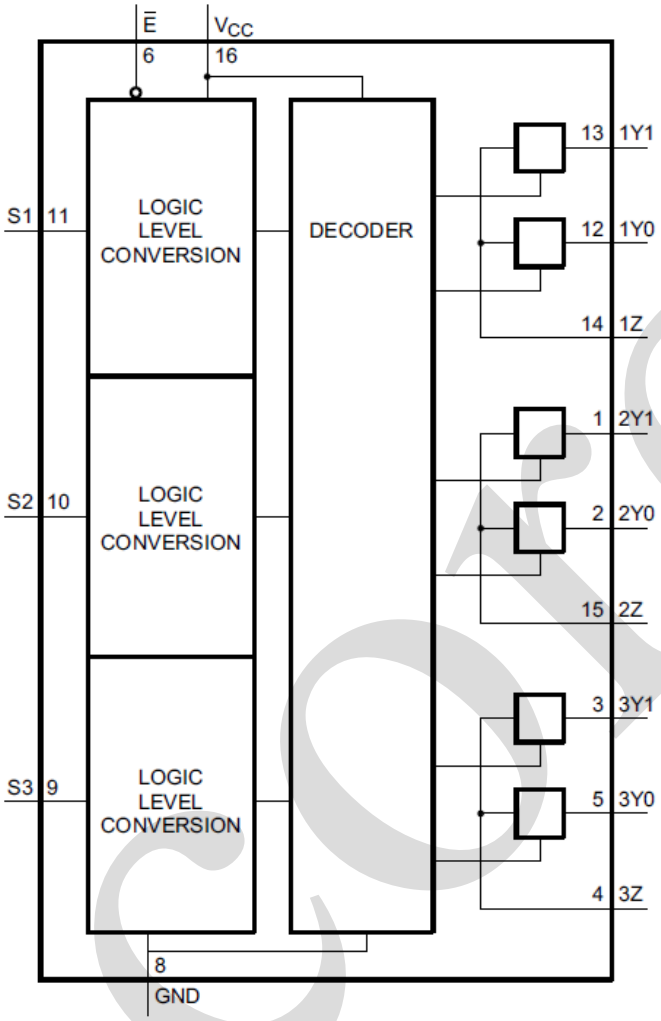


Figure 1. Functional diagram

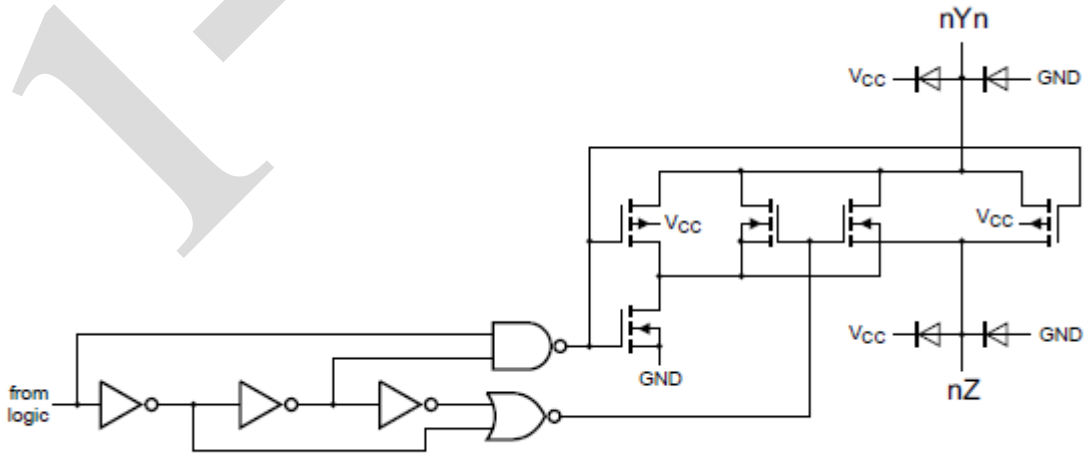
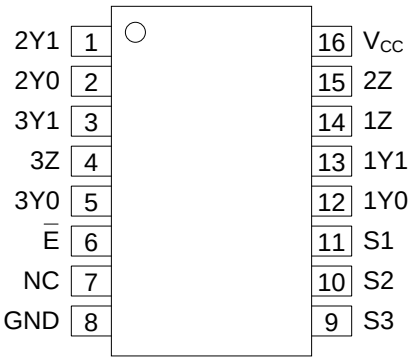
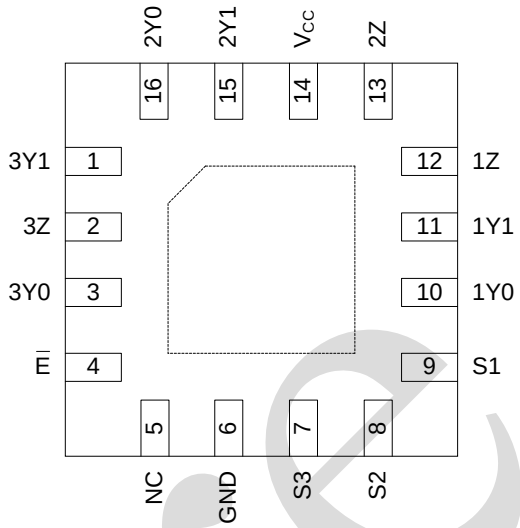


Figure 2. Schematic diagram (one switch)

2.2、Pin Configurations



SOP16/SSOP16/TSSOP16



QFN16

2.3、Pin Description

Pin No.		Pin Name	Description
SOP16/SSOP16/TSSOP16	QFN16		
1	15	2Y1	independent input or output
2	16	2Y0	independent input or output
3	1	3Y1	independent input or output
4	2	3Z	common output or input
5	3	3Y0	independent input or output
6	4	$\overline{E}$	enable input (active LOW)
7	5	NC	not connect
8	6	GND	ground supply voltage
9	7	S3	select input
10	8	S2	select input
11	9	S1	select input
12	10	1Y0	independent input or output
13	11	1Y1	independent input or output
14	12	1Z	common output or input
15	13	2Z	common output or input
16	14	V_{CC}	supply voltage

2.4、Function Table

Inputs		Channel ON
$\overline{E}$	Sn	
L	L	nY0 to nZ
L	H	nY1 to nZ
H	X	switches off

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	℃
soldering temperature	T_L	10s	260		℃

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	℃
input transition rise and fall rate	Δt/ΔV	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℃ to +85℃, 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		-	-	0.5	V
		V_{CC}=2.7V to 3.6V		-	-	0.7	V
		V_{CC}=4.5V		-	-	1.15	V
		V_{CC}=6.0V		-	-	1.60	V
input leakage current	I_I	V_I=V_{CC} or GND	V_{CC}=3.6V	-	-	1.0	uA
			V_{CC}=6.0V	-	-	2.0	uA
OFF-state leakage current	$I_{S(OFF)}$	V_I=V_{IH} or V_{IL}; see Figure 12	V_{CC}=3.6V	-	-	1.0	uA
			V_{CC}=6.0V	-	-	2.0	uA
ON-state leakage current	$I_{S(ON)}$	V_I=V_{IH} or V_{IL}; see Figure 13	V_{CC}=3.6V	-	-	1.0	uA
			V_{CC}=6.0V	-	-	2.0	uA
supply current	I_{CC}	V_I=V_{CC} or GND; I_O=0A	V_{CC}=3.6V	-	-	20	uA
			V_{CC}=6.0V	-	-	40	uA
additional supply current	ΔI_{CC}	per input; V_I=V_{CC}-0.6V; V_{CC}=2.7V to 3.6V		-	-	500	uA

ON resistance (peak)	$R_{ON(peak)}$	V_I=0V to V_{CC}	V_{CC}=2.0V; I_{SW}=1000uA	-	290	650	Ω
			V_{CC}=2.7V; I_{SW}=1000uA	-	150	300	Ω
			V_{CC}=3.0V to 3.6V; I_{SW}=1000uA	-	100	200	Ω
			V_{CC}=4.5V; I_{SW}=1000uA	-	80	160	Ω
			V_{CC}=6.0V; I_{SW}=1000uA	-	65	130	Ω
ON resistance mismatch between channels	ΔR_{ON}	V_I=0V to V_{CC}	V_{CC}=2.0V; I_{SW}=1000uA	-	5	-	Ω
			V_{CC}=2.7V; I_{SW}=1000uA	-	4	-	Ω
			V_{CC}=3.0V to 3.6V; I_{SW}=1000uA	-	4	-	Ω
			V_{CC}=4.5V; I_{SW}=1000uA	-	3	-	Ω
			V_{CC}=6.0V; I_{SW}=1000uA	-	2	-	Ω
ON resistance (rail)	$R_{ON(rail)}$	V_I=GND	V_{CC}=2.0V; I_{SW}=1000uA	-	110	235	Ω
			V_{CC}=2.7V; I_{SW}=1000uA	-	85	170	Ω
			V_{CC}=3.0V to 3.6V; I_{SW}=1000uA	-	65	130	Ω
			V_{CC}=4.5V; I_{SW}=1000uA	-	60	120	Ω
			V_{CC}=6.0V; I_{SW}=1000uA	-	50	100	Ω
		V_I=V_{CC}	V_{CC}=2.0V; I_{SW}=1000uA	-	150	320	Ω
			V_{CC}=2.7V; I_{SW}=1000uA	-	110	220	Ω
			V_{CC}=3.0V to 3.6V; I_{SW}=1000uA	-	85	170	Ω
			V_{CC}=4.5V; I_{SW}=1000uA	-	70	140	Ω
			V_{CC}=6.0V; I_{SW}=1000uA	-	60	120	Ω

Note:

[1] Typical values are measured at T_{amb}=25℃.

3.3.2、DC Characteristics 2

(T_{amb}=-40℃ to +125℃, 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		-	-	0.5	V
		V_{CC}=2.7V to 3.6V		-	-	0.7	V
		V_{CC}=4.5V		-	-	1.15	V
		V_{CC}=6.0V		-	-	1.60	V
input leakage current	I_I	V_I=V_{CC} or GND	V_{CC}=3.6V	-	-	2.0	uA
			V_{CC}=6.0V	-	-	4.0	uA
OFF-state leakage current	$I_{S(OFF)}$	V_I=V_{IH} or V_{IL}; see Figure 12	V_{CC}=3.6V	-	-	2.0	uA
			V_{CC}=6.0V	-	-	4.0	uA
ON-state leakage current	$I_{S(ON)}$	V_I=V_{IH} or V_{IL}; see Figure 13	V_{CC}=3.6V	-	-	2.0	uA
			V_{CC}=6.0V	-	-	4.0	uA
supply current	I_{CC}	V_I=V_{CC} or GND; I_O=0A	V_{CC}=3.6V	-	-	40	uA
			V_{CC}=6.0V	-	-	80	uA
additional supply current	ΔI_{CC}	per input; V_I=V_{CC}-0.6V; V_{CC}=2.7V to 3.6V		-	-	850	uA
ON resistance (peak)	$R_{ON(peak)}$	V_I=0V to V_{CC}	V_{CC}=2.0V; I_{SW}=1000uA	-	-	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	-	-	270	Ω
			V_{CC}=2.7V; I_{SW}=1000uA	-	-	200	Ω
			V_{CC}=3.0V to 3.6V; I_{SW}=1000uA	-	-	150	Ω
			V_{CC}=4.5V; I_{SW}=1000uA	-	-	140	Ω
			V_{CC}=6.0V; I_{SW}=1000uA	-	-	120	Ω
		V_I=V_{CC}	V_{CC}=2.0V; I_{SW}=1000uA	-	-	370	Ω
			V_{CC}=2.7V;	-	-	250	Ω

			I_{SW}=1000uA				
			V_{CC}=3.0V to 3.6V; I_{SW}=1000uA	-	-	205	Ω
			V_{CC}=4.5V; I_{SW}=1000uA	-	-	150	Ω
			V_{CC}=6.0V; I_{SW}=1000uA	-	-	135	Ω

3.3.3、AC Characteristics 1

(T_{amb}=-40℃ to +85℃, 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}	$\overline{E}$ to nYn, nZ; see Figure 5	V_{CC}=2.0V	-	73	90	ns
			V_{CC}=2.7V	-	43	52	ns
			V_{CC}=3.0V to 3.6V; C_L=15pF	-	32	-	ns
			V_{CC}=3.0V to 3.6V	-	32	39	ns
			V_{CC}=4.5V	-	22	27	ns
			V_{CC}=6.0V	-	17	21	ns
		Sn to Yn ,see Figure 5	V_{CC}=2.0V	-	80	96	ns
			V_{CC}=2.7V	-	47	57	ns
			V_{CC}=3.0V to 3.6V; C_L=15pF	-	35	-	ns
			V_{CC}=3.0V to 3.6V	-	35	42	ns
			V_{CC}=4.5V	-	25	30	ns
			V_{CC}=6.0V	-	19	23	ns
disable time	t_{dis}	$\overline{E}$ to nYn; see Figure 5	V_{CC}=2.0V	-	24	29	ns
			V_{CC}=2.7V	-	18	21	ns
			V_{CC}=3.0V to 3.6V; C_L=15pF	-	14	-	ns
			V_{CC}=3.0V to 3.6V	-	14	17	ns
			V_{CC}=4.5V	-	11	13	ns
			V_{CC}=6.0V	-	10	12	ns
		Sn to Yn; see Figure 5	V_{CC}=2.0V	-	24	29	ns
			V_{CC}=2.7V	-	17	20	ns
			V_{CC}=3.0V to 3.6V; C_L=15pF	-	13	-	ns
			V_{CC}=3.0V to 3.6V	-	13	16	ns
			V_{CC}=4.5V	-	11	13	ns
			V_{CC}=6.0V	-	9	11	ns

Note:

[1] Typical values are measured at T_{amb}=25℃.

[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] Typical values are measured at nominal supply voltage (V_{CC}=3.3V).

3.3.4、AC Characteristics 2

(T_{amb}=-40℃ to +125℃, 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}	$\overline{E}$ to nYn, nZ; see Figure 5	V_{CC}=2.0V	-	-	104	ns
			V_{CC}=2.7V	-	-	61	ns
			V_{CC}=3.0V to 3.6V	-	-	45	ns
			V_{CC}=4.5V	-	-	31	ns
			V_{CC}=6.0V	-	-	24	ns
		Sn to Yn; see Figure 5	V_{CC}=2.0V	-	-	112	ns
			V_{CC}=2.7V	-	-	66	ns
			V_{CC}=3.0V to 3.6V	-	-	49	ns
			V_{CC}=4.5V	-	-	35	ns
			V_{CC}=6.0V	-	-	27	ns
disable time	t_{dis}	$\overline{E}$ to nYn, nZ; see Figure 5	V_{CC}=2.0V	-	-	34	ns
			V_{CC}=2.7V	-	-	25	ns
			V_{CC}=3.0V to 3.6V	-	-	20	ns
			V_{CC}=4.5V	-	-	16	ns
			V_{CC}=6.0V	-	-	13	ns
		Sn to Yn; see Figure 5	V_{CC}=2.0V	-	-	33	ns
			V_{CC}=2.7V	-	-	24	ns
			V_{CC}=3.0V to 3.6V	-	-	18	ns
			V_{CC}=4.5V	-	-	15	ns
			V_{CC}=6.0V	-	-	13	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℃, GND=0V, t_r=t_f≤6.0ns, V_I=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=10kΩ; 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=10kΩ; 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=50Ω; 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=600Ω; 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=600Ω; 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=600Ω; 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

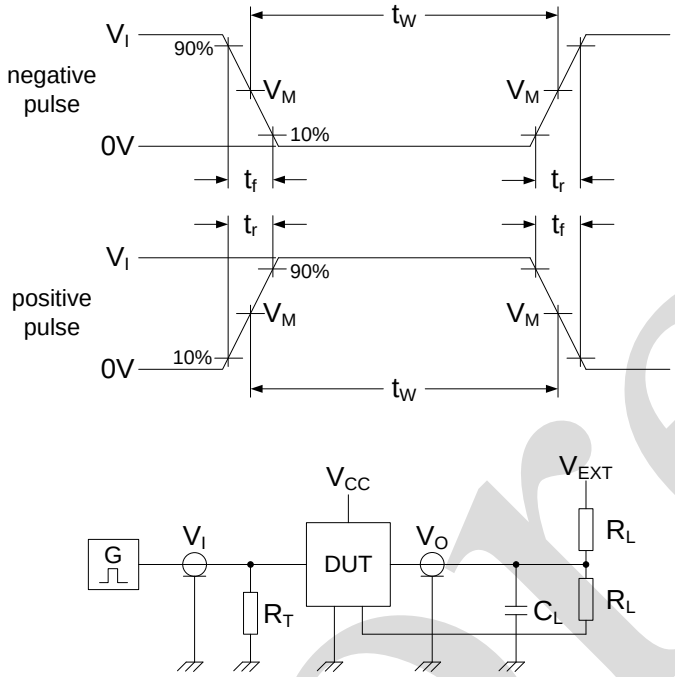


Figure 3. Test circuit for switching times

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

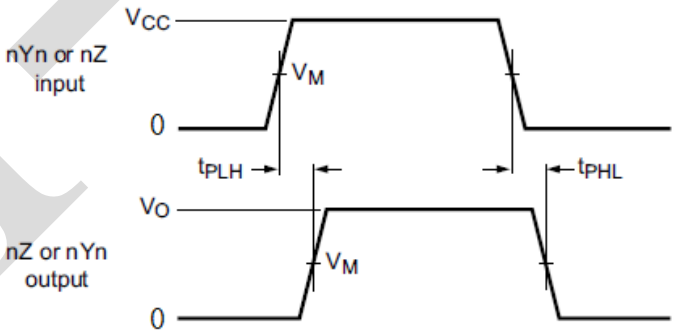


Figure 4. nYn to nZ, nZ to nYn propagation delays

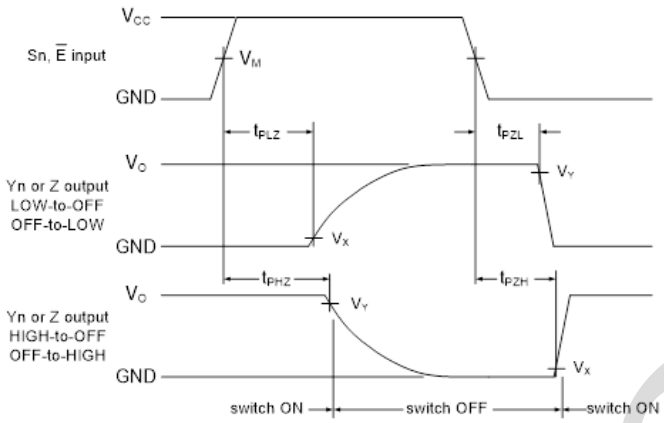


Figure 5. Enable and disable times

4.3、AC Testing Circuit 2

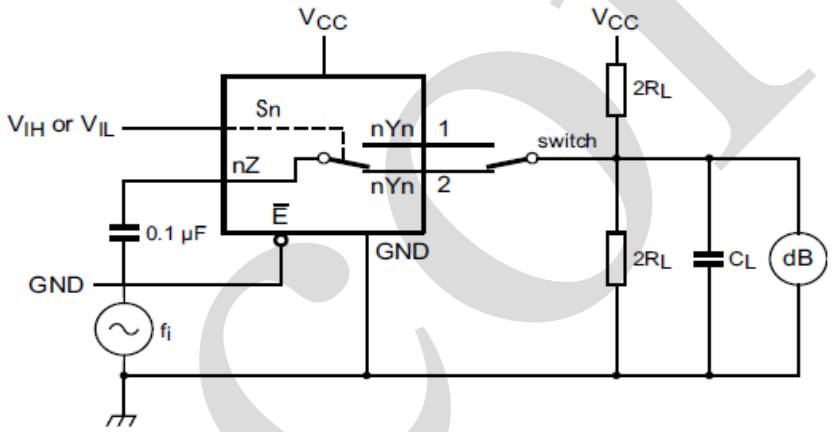


Figure 6. Test circuit for measuring frequency response

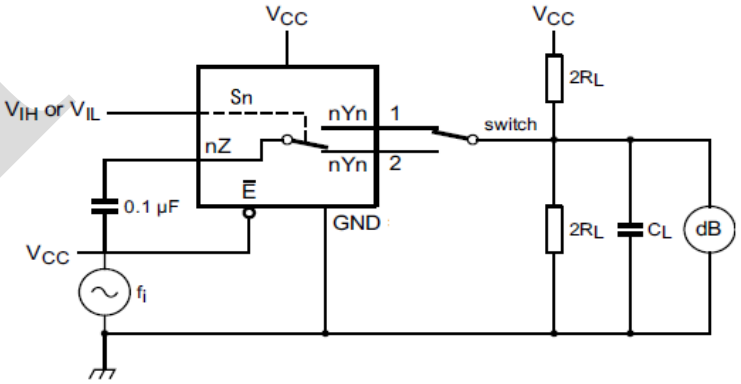


Figure 7. Test circuit for measuring isolation (OFF-state)

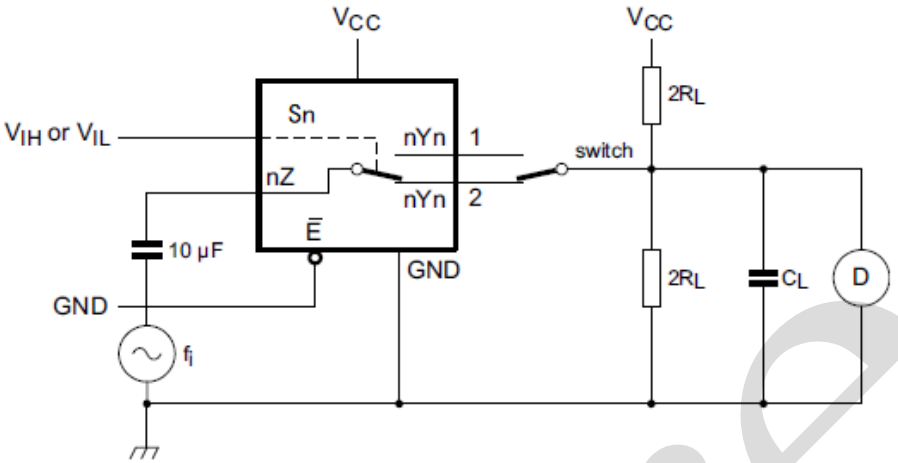
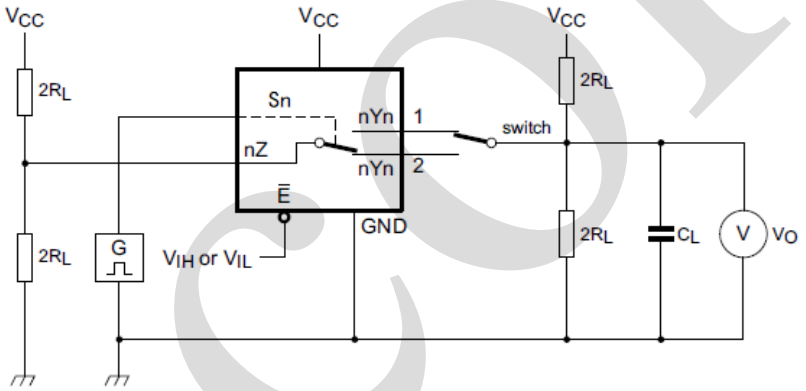
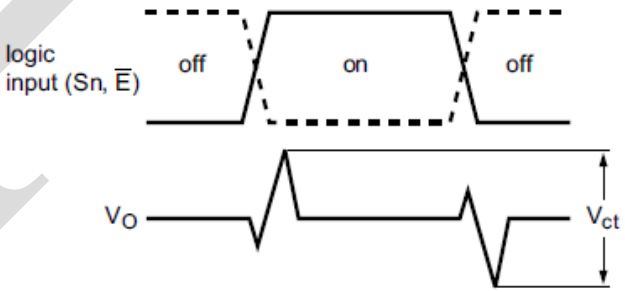


Figure 8. Test circuit for measuring total harmonic distortion



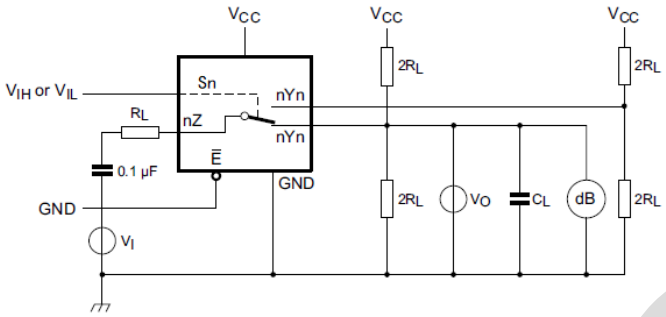
a. Test circuit



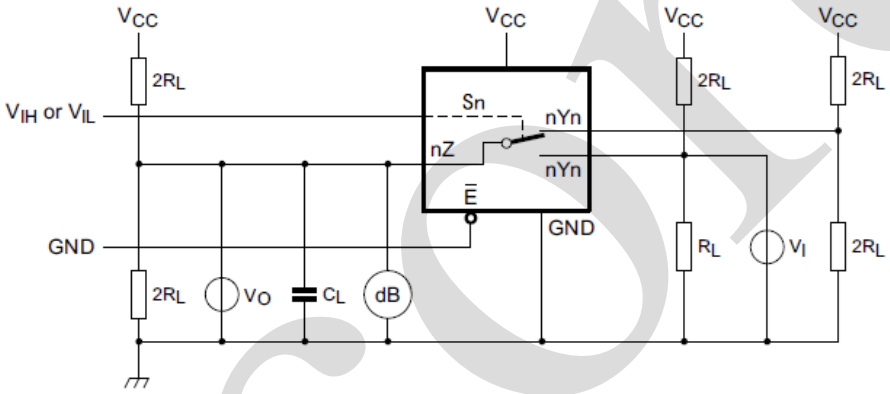
b. Input and output pulse definitions

V_I may be connected to Sn or $\overline{E}$.

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



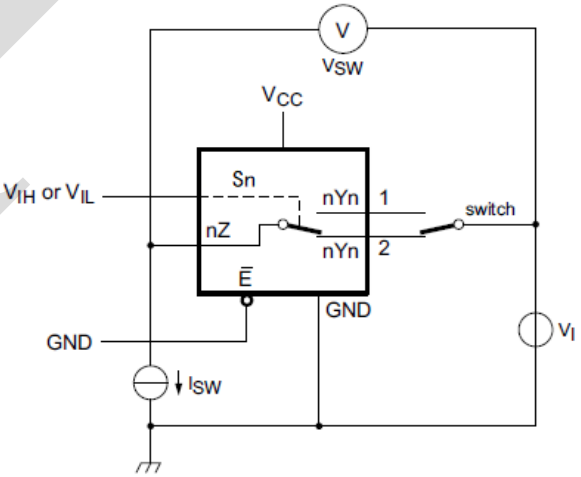
a. Switch on channel.



b. Switch off channel

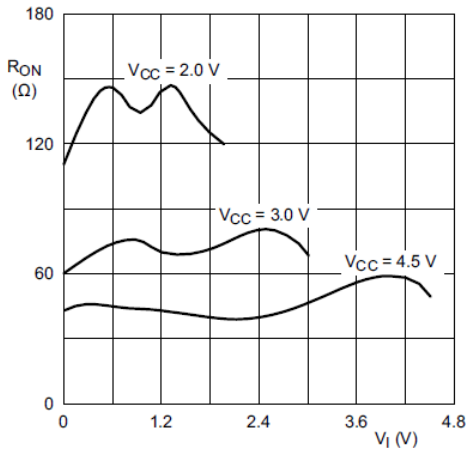
Figure 10. Test circuit for measuring crosstalk between switches

4.4、On Resistance Test Circuit



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

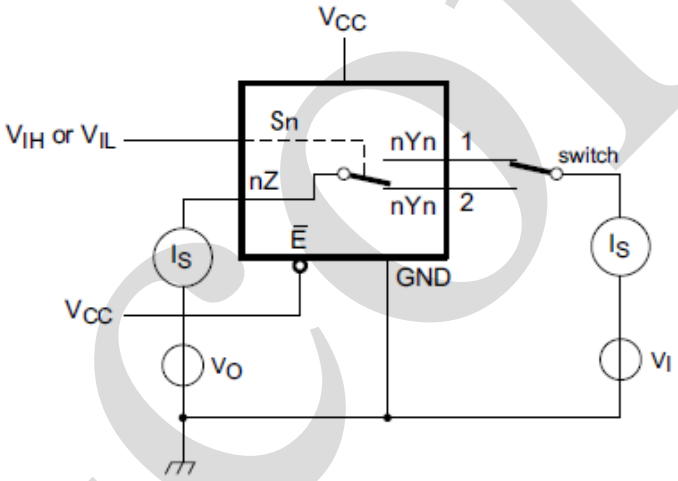
Figure 11. Test circuit for measuring R_{ON}



V_I=0V to V_{CC}

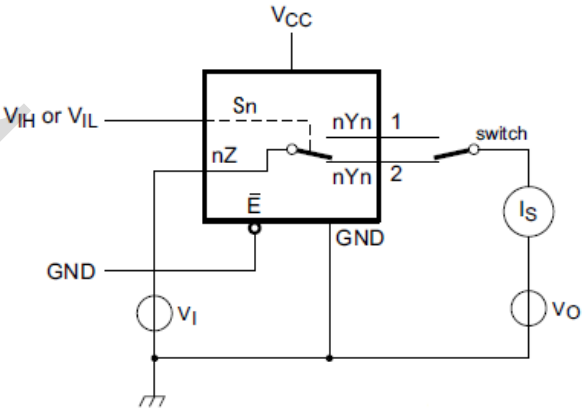
Figure 12. Typical R_{ON} as a function of input voltage

4.5、DC Testing Circuit



V_I=V_{CC} and V_O= V_{CC}

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



V_I=V_{CC} and V_O=open circuit

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

4.6、Measurement Points

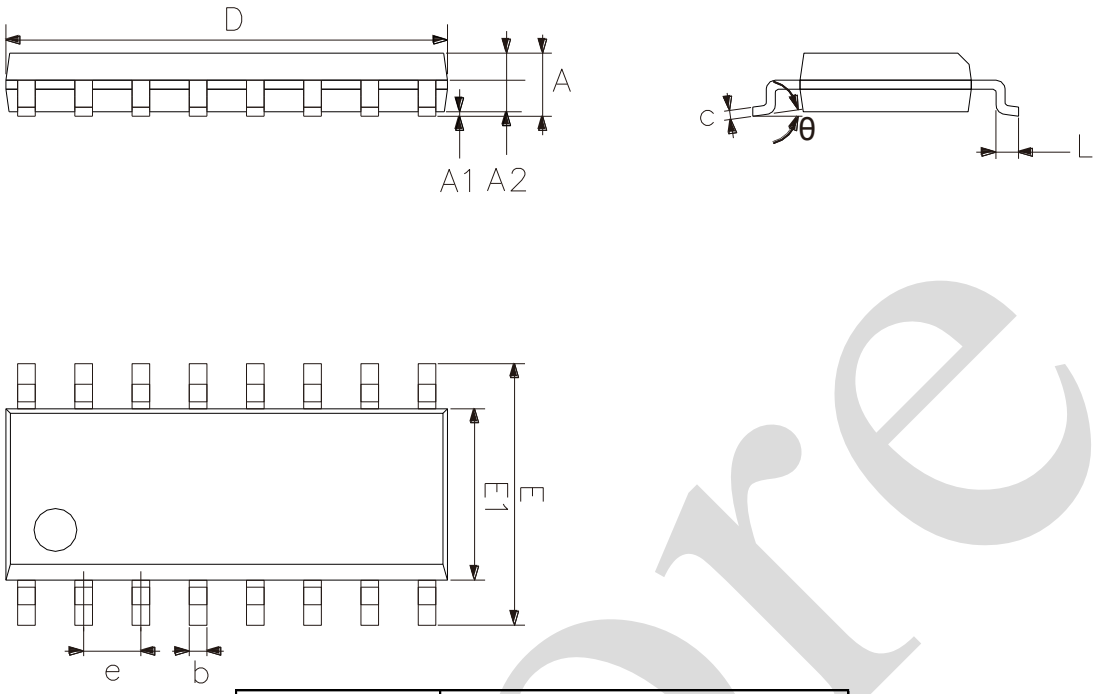
Supply voltage	Input	Output
V_{CC}	V_M	V_M
<2.7V	$0.5\times V_{CC}$	$0.5\times V_{CC}$
2.7V to 3.6V	1.5V	1.5V
>3.6V	$0.5\times V_{CC}$	$0.5\times V_{CC}$

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}	≤6ns	50pF	1kΩ	open	GND	$2\times V_{CC}$
2.7V to 3.6V	2.7V	≤6ns	15 pF, 50pF	1kΩ	open	GND	$2\times V_{CC}$
>3.6V	V_{CC}	≤6ns	50pF	1kΩ	open	GND	$2\times V_{CC}$

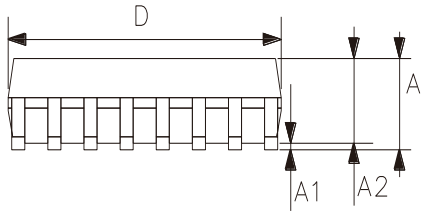
5、Package Information

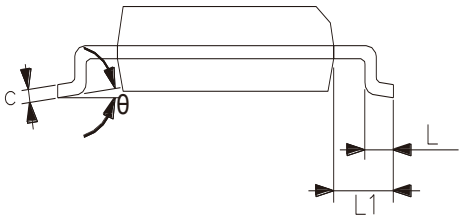
5.1、SOP16

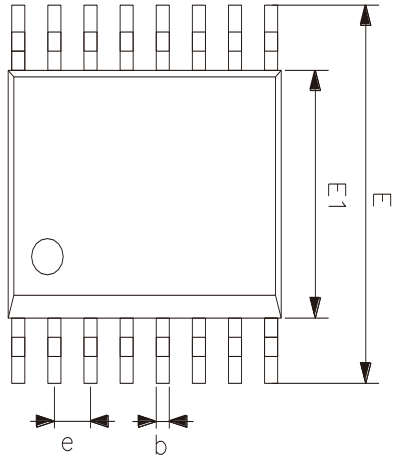


2023/12/A	Dimensions In Millimeters	
Symbol	**Min.**	**Max.**
A	1.35	1.80
A1	0.10	0.25
A2	1.25	1.55
b	0.33	0.51
c	0.19	0.25
D	9.50	10.10
E	5.80	6.30
E1	3.70	4.10
e	1.27	
L	0.35	0.89
θ	0°	8°

5.2、SSOP16

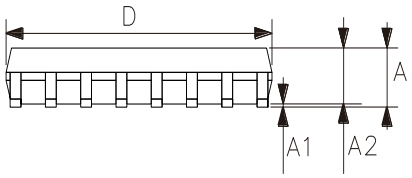


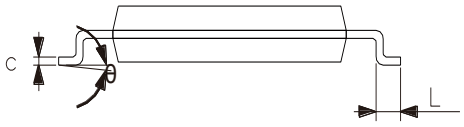


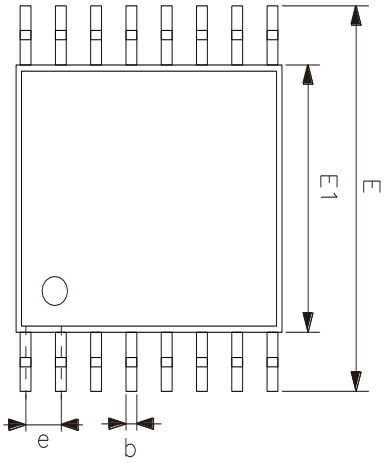


2023/12/A	Dimensions In Millimeters	
Symbol	**Min**	**Max**
A	—	1.75
A1	0.02	0.23
A2	1.30	1.50
b	0.23	0.31
c	0.20	0.24
D	4.70	5.10
E	5.80	6.25
E1	3.80	4.02
e	0.635	
L	0.45	0.80
L1	1.05	
θ	0°	8°

5.3、TSSOP16

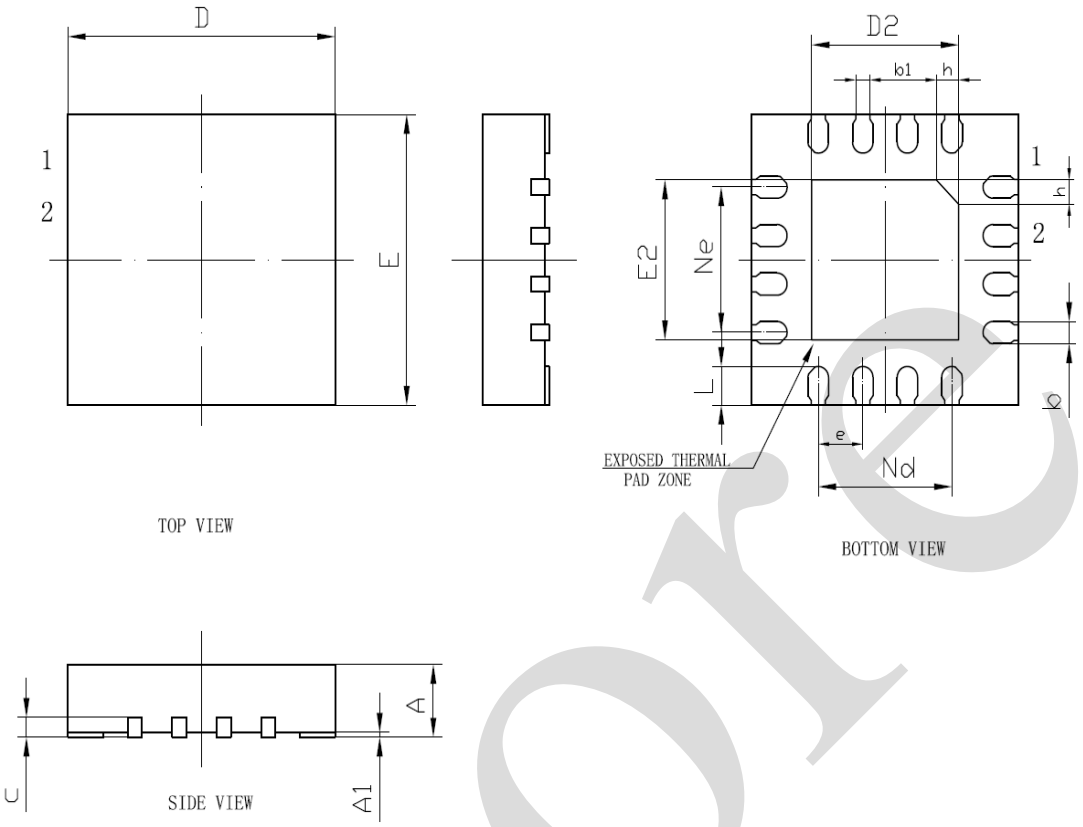






2023/12/A	Dimensions In Millimeters	
Symbol	**Min**	**Max**
A	—	1.20
A1	0.05	0.15
A2	0.80	1.05
b	0.19	0.30
c	0.09	0.20
D	4.90	5.10
E1	4.30	4.50
E	6.20	6.60
e	0.65	
L	0.45	0.75
θ	0°	8°

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

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