



AiP74HC95/HCT95 4-bit Parallel Access Shift Register

Product Specification

Specification Revision History:

| Version | Date | Description |
|------------|---------|-----------------------|
| 2023-10-A1 | 2023-10 | New |
| 2024-04-A1 | 2024-04 | Modify the parameters |
| | | |
| | | |



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1、General Description

The AiP74HC/HCT95 is a 4-bit Parallel Access Shift Register.

Features:

- Supply voltage range:
AiP74HC95: 2V to 6V
AiP74HCT95: 4.5V to 5.5V
- Input levels:
AiP74HC95: CMOS level
AiP74HCT95: TTL level
- Temperature range: -40°C to +125°C
- Packaging information: DIP14/SOP14/TSSOP14

Ordering Information:

Tube packing specifications:

| Part number | Packaging form | Marking code | Tube quantity | Boxed tube quantity | Boxed quantity | Notes |
|-------------------|----------------|--------------|---------------|---------------------|----------------|--|
| AiP74HC95DA14.TB | DIP14 | 74HC95 | 25 PCS/tube | 40 tube/box | 1000 PCS/box | Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm |
| AiP74HCT95DA14.TB | DIP14 | 74HCT95 | 25 PCS/tube | 40 tube/box | 1000 PCS/box | Dimensions of plastic enclosure: 19.0mm×6.4mm Pin spacing: 2.54mm |
| AiP74HC95SA14.TB | SOP14 | 74HC95 | 50 PCS/tube | 200 tube/box | 10000 PCS/box | Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm |
| AiP74HCT95SA14.TB | SOP14 | 74HCT95 | 50 PCS/tube | 200 tube/box | 10000 PCS/box | Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm |
| AiP74HC95TA14.TB | TSSOP14 | 74HC95 | 96 PCS/tube | 200 tube/box | 19200 PCS/box | Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm |
| AiP74HCT95TA14.TB | TSSOP14 | 74HCT95 | 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 |
|-------------------|----------------|--------------|------------------|---------------------|---|
| AiP74HC95SA14.TR | SOP14 | 74HC95 | 4000 PCS/reel | 8000 PCS/box | Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm |
| AiP74HCT95SA14.TR | SOP14 | 74HCT95 | 4000 PCS/reel | 8000 PCS/box | Dimensions of plastic enclosure: 8.7mm×3.9mm Pin spacing: 1.27mm |
| AiP74HC95TA14.TR | TSSOP14 | 74HC95 | 5000 PCS/reel | 10000 PCS/box | Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm |
| AiP74HCT95TA14.TR | TSSOP14 | 74HCT95 | 5000 PCS/reel | 10000 PCS/box | Dimensions of plastic enclosure: 5.0mm×4.4mm Pin spacing: 0.65mm |

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

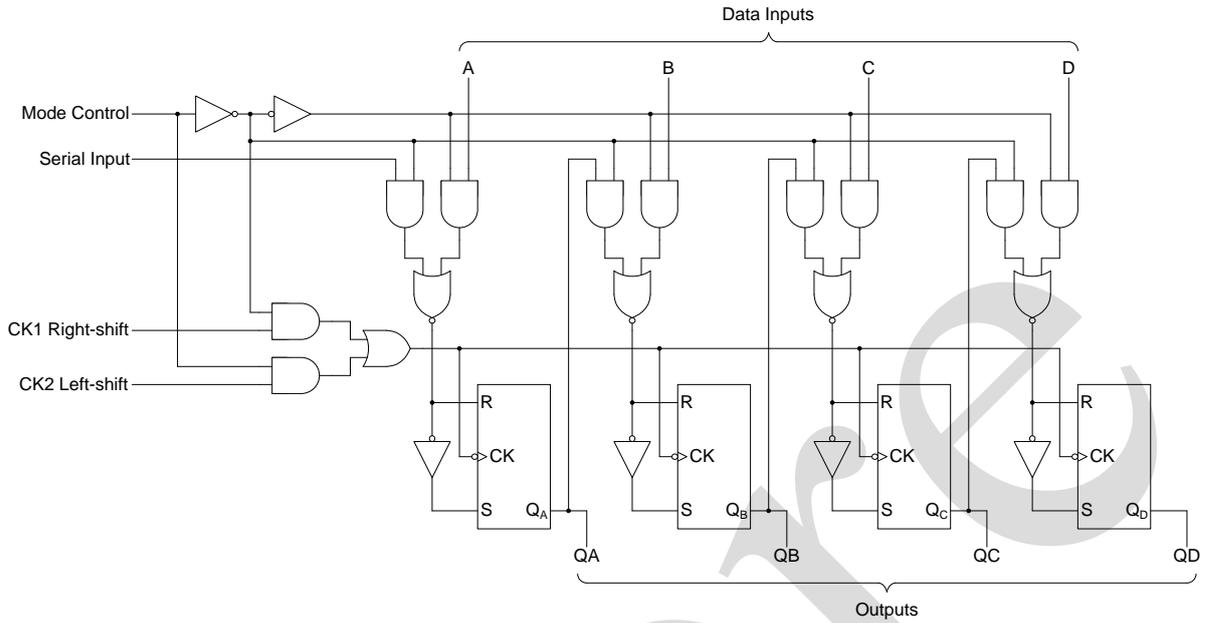


Figure 1. Logic symbol

2.2、Pin Configurations

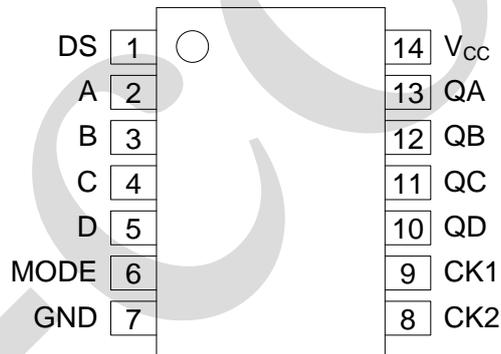


Figure 2. Pin Configurations



2.3、Pin Description

| Pin No. | Pin Name | Description |
|---------|-----------------|---|
| 1 | DS | serial data input |
| 2 | A | parallel data input |
| 3 | B | parallel data input |
| 4 | C | parallel data input |
| 5 | D | parallel data input |
| 6 | MODE | Mode control input |
| 7 | GND | ground (0V) |
| 8 | CK2 | parallel clock input(active falling edge) |
| 9 | CK1 | serial clock input(active falling edge) |
| 10 | QD | Parallel output |
| 11 | QC | Parallel output |
| 12 | QB | Parallel output |
| 13 | QA | Parallel output |
| 14 | V _{CC} | Supply voltage |

2.4、Function Table

| MODE | INPUTS | | | | | | | OUTPUTS | | | | FUNCTION |
|------|--------|--------|----|----|----|----|----|-----------------|-----------------|-----------------|-----------------|-------------|
| | CK2(L) | CK1(R) | DS | A | B | C | D | QA | QB | QC | QD | |
| H | X | X | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| H | ↓ | X | X | a | b | c | d | a | b | c | d | set |
| L | L | H | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| L | X | ↓ | H | X | X | X | X | H | Q _{AN} | Q _{BN} | Q _{CN} | shift right |
| L | X | ↓ | L | X | X | X | X | L | Q _{AN} | Q _{BN} | Q _{CN} | shift right |
| ↑ | L | L | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| ↑ | H | L | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| ↑ | H | H | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| ↓ | L | L | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| ↓ | L | H | X | X | X | X | X | Q _{A0} | Q _{B0} | Q _{C0} | Q _{D0} | holding |
| H | ↓ | X | H | QB | QC | QD | DS | Q _{BN} | Q _{CN} | Q _{DN} | H | shift left |
| H | ↓ | X | L | QB | QC | QD | DS | Q _{BN} | Q _{CN} | Q _{DN} | L | shift left |

Note: shifting left require external connection of QB to A, QC to B, and QD to C. Serial data is entered at input D.



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 | V |
| supply current | I_{CC} | - | - | 50 | mA |
| ground current | I_{GND} | - | -50 | - | mA |
| input clamping current | I_{IK} | $V_I < -0.5V$ or $V_I > V_{CC}+0.5V$ | - | ± 20 | mA |
| output clamping current | I_{OK} | $V_O < -0.5V$ or $V_O > V_{CC}+0.5V$ | - | ± 20 | mA |
| output current | I_O | $-0.5V < V_O < V_{CC}+0.5V$ | - | ± 25 | mA |
| storage temperature | T_{stg} | - | -65 | +150 | °C |
| soldering temperature | T_L | 10s | DIP | | °C |
| | | | SOP/TSSOP | | |

3.2、Recommended Operating Conditions

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|---------------------|-----------|------------|------|------|----------|------|
| AiP74HC95 | | | | | | |
| supply voltage | V_{CC} | - | 2.0 | 5.0 | 6.0 | V |
| input voltage | V_I | - | 0 | - | V_{CC} | V |
| output voltage | V_O | - | 0 | - | V_{CC} | V |
| ambient temperature | T_{amb} | - | -40 | - | +125 | °C |
| AiP74HCT95 | | | | | | |
| supply voltage | V_{CC} | - | 4.5 | 5.0 | 5.5 | V |
| input voltage | V_I | - | 0 | - | V_{CC} | V |
| output voltage | V_O | - | 0 | - | 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 referenced to GND (ground=0V), unless otherwise specified.)

| Parameter | Symbol | V _{CC} | Conditions | Min. | Typ. | Max. | Unit |
|---------------------------|------------------|-----------------|--|------|------|------|------|
| AiP74HC95 | | | | | | | |
| HIGH-level input voltage | V _{IH} | 2.0V | - | 1.5 | 1.2 | - | V |
| | | 4.5V | - | 3.15 | 2.4 | - | V |
| | | 6.0V | - | 4.2 | 3.2 | - | V |
| LOW-level input voltage | V _{IL} | 2.0V | - | - | 0.8 | 0.5 | V |
| | | 4.5V | - | - | 2.1 | 1.35 | V |
| | | 6.0V | - | - | 2.8 | 1.8 | V |
| HIGH-level output voltage | V _{OH} | 2.0V | I _O =-20uA | 1.9 | 2.0 | - | V |
| | | 4.5V | I _O =-20uA | 4.4 | 4.5 | - | V |
| | | 6.0V | I _O =-20uA | 5.9 | 6.0 | - | V |
| | | 4.5V | I _O =-4.0mA | 3.84 | 4.32 | - | V |
| | | 6.0V | I _O =-5.2mA | 5.34 | 5.81 | - | V |
| LOW-level output voltage | V _{OL} | 2.0V | I _O =20uA | - | 0 | 0.1 | V |
| | | 4.5V | I _O =20uA | - | 0 | 0.1 | V |
| | | 6.0V | I _O =20uA | - | 0 | 0.1 | V |
| | | 4.5V | I _O =4.0mA | - | 0.15 | 0.33 | V |
| | | 6.0V | I _O =5.2mA | - | 0.16 | 0.33 | V |
| input leakage current | I _I | 6.0V | V _I =V _{CC} or GND | - | - | ±1 | uA |
| supply current | I _{CC} | 6.0V | V _I =V _{CC} or GND; I _O =0A | - | - | 80 | uA |
| AiP74HCT95 | | | | | | | |
| HIGH-level input voltage | V _{IH} | 4.5~5.5V | - | 2.0 | 1.6 | - | V |
| LOW-level input voltage | V _{IL} | 4.5~5.5V | - | - | 1.2 | 0.8 | V |
| HIGH-level output voltage | V _{OH} | 4.5V | I _O =-20uA | 4.4 | 4.5 | - | V |
| | | | I _O =-4.0mA | 3.84 | 4.32 | - | V |
| LOW-level output voltage | V _{OL} | 4.5V | I _O =20uA | - | 0 | 0.1 | V |
| | | | I _O =4.0mA | - | 0.15 | 0.33 | V |
| input leakage current | I _I | 5.5V | V _I =V _{CC} or GND | - | - | ±1 | uA |
| supply current | I _{CC} | 5.5V | V _I =V _{CC} or GND; I _O =0A | - | - | 80 | uA |
| additional supply current | ΔI _{CC} | 4.5~5.5V | One input at V _I =V _{CC} -2.1V; Other inputs at V _{CC} or GND; I _O =0A | - | - | 135 | uA |



3.3.2、DC 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 | V _{CC} | Conditions | Min. | Typ. | Max. | Unit |
|---------------------------|------------------|-----------------|--|------|------|------|------|
| AiP74HC95 | | | | | | | |
| HIGH-level input voltage | V _{IH} | 2.0V | - | 1.5 | - | - | V |
| | | 4.5V | - | 3.15 | - | - | V |
| | | 6.0V | - | 4.2 | - | - | V |
| LOW-level input voltage | V _{IL} | 2.0V | - | - | - | 0.5 | V |
| | | 4.5V | - | - | - | 1.35 | V |
| | | 6.0V | - | - | - | 1.8 | V |
| HIGH-level output voltage | V _{OH} | 2.0V | I _O =-20uA | 1.9 | - | - | V |
| | | 4.5V | I _O =-20uA | 4.4 | - | - | V |
| | | 6.0V | I _O =-20uA | 5.9 | - | - | V |
| | | 4.5V | I _O =-4.0mA | 3.7 | - | - | V |
| | | 6.0V | I _O =-5.2mA | 5.2 | - | - | V |
| LOW-level output voltage | V _{OL} | 2.0V | I _O =20uA | - | - | 0.1 | V |
| | | 4.5V | I _O =20uA | - | - | 0.1 | V |
| | | 6.0V | I _O =20uA | - | - | 0.1 | V |
| | | 4.5V | I _O =4.0mA | - | - | 0.4 | V |
| | | 6.0V | I _O =5.2mA | - | - | 0.4 | V |
| input leakage current | I _I | 6.0V | V _I =V _{CC} or GND | - | - | ±1 | uA |
| supply current | I _{CC} | 6.0V | V _I =V _{CC} or GND; I _O =0A | - | - | 160 | uA |
| AiP74HCT95 | | | | | | | |
| HIGH-level input voltage | V _{IH} | 4.5~5.5V | - | 2.0 | - | - | V |
| LOW-level input voltage | V _{IL} | 4.5~5.5V | - | - | - | 0.8 | V |
| HIGH-level output voltage | V _{OH} | 4.5V | I _O =-20uA | 4.4 | - | - | V |
| | | | I _O =-4.0mA | 3.7 | - | - | V |
| LOW-level output voltage | V _{OL} | 4.5V | I _O =20uA | - | - | 0.1 | V |
| | | | I _O =4.0mA | - | - | 0.4 | V |
| input leakage current | I _I | 5.5V | V _I =V _{CC} or GND | - | - | ±1 | uA |
| supply current | I _{CC} | 5.5V | V _I =V _{CC} or GND; I _O =0A | - | - | 160 | uA |
| additional supply current | ΔI _{CC} | 4.5~5.5V | One input at V _I =V _{CC} -2.1V; Other inputs at V _{CC} or GND; I _O =0A | - | - | 147 | uA |



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 | V _{CC} | Conditions | Min. | Typ. | Max. | Unit | |
|-----------------------------|-------------------------------------|-----------------|----------------------|--------------|------|------|------|-----|
| AiP74HC95 | | | | | | | | |
| CKn to Qn propagation delay | t _{PLH} , t _{PHL} | 2.0V | C _L =50pF | see Figure 4 | - | - | 215 | ns |
| | | 4.5V | C _L =50pF | | - | - | 43 | ns |
| | | 6.0V | C _L =50pF | | - | - | 37 | ns |
| output transition time | t _{THL} , t _{TLH} | 2.0V | C _L =50pF | see Figure 4 | - | - | 95 | ns |
| | | 4.5V | C _L =50pF | | - | - | 19 | ns |
| | | 6.0V | C _L =50pF | | - | - | 16 | ns |
| CKn HIGH or LOW pulse width | tw | 2.0V | C _L =50pF | see Figure 4 | 100 | - | - | ns |
| | | 4.5V | C _L =50pF | | 20 | - | - | ns |
| | | 6.0V | C _L =50pF | | 17 | - | - | ns |
| Setup time | tsu | 2.0V | C _L =50pF | see Figure 5 | 125 | - | - | ns |
| | | 4.5V | C _L =50pF | | 25 | - | - | ns |
| | | 6.0V | C _L =50pF | | 21 | - | - | ns |
| hold time | th | 2.0V | C _L =50pF | see Figure 5 | 10 | - | - | ns |
| | | 4.5V | C _L =50pF | | 10 | - | - | ns |
| | | 6.0V | C _L =50pF | | 10 | - | - | ns |
| maximum clock frequency | fmax | 2.0V | C _L =50pF | see Figure 4 | - | - | 3 | MHz |
| | | 4.5V | C _L =50pF | | - | - | 16 | MHz |
| | | 6.0V | C _L =50pF | | - | - | 19 | MHz |
| AiP74HCT95 | | | | | | | | |
| CKn to Qn propagation delay | t _{PLH} , t _{PHL} | 4.5V | C _L =50pF | see Figure 4 | - | 17 | 43 | ns |
| transition time | t _{THL} , t _{TLH} | 4.5V | C _L =50pF | see Figure 4 | - | - | 19 | ns |
| CKn HIGH or LOW pulse width | tw | 4.5V | C _L =50pF | see Figure 4 | 20 | - | - | ns |
| setup time | tsu | 4.5V | C _L =50pF | see Figure 5 | 25 | - | - | ns |
| hold time | th | 4.5V | C _L =50pF | see Figure 5 | 10 | - | - | ns |
| maximum clock frequency | fmax | 4.5V | C _L =50pF | see Figure 4 | - | - | 16 | MHz |



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 | V _{CC} | Conditions | Min. | Typ. | Max. | Unit | |
|-----------------------------|-------------------------------------|-----------------|----------------------|--------------|------|------|------|-----|
| AiP74HC95 | | | | | | | | |
| CKn to Qn propagation delay | t _{PLH} , t _{PHL} | 2.0V | C _L =50pF | see Figure 4 | - | - | 258 | ns |
| | | 4.5V | C _L =50pF | | - | - | 52 | ns |
| | | 6.0V | C _L =50pF | | - | - | 44 | ns |
| output transition time | t _{THL} , t _{TLH} | 2.0V | C _L =50pF | see Figure 4 | - | - | 114 | ns |
| | | 4.5V | C _L =50pF | | - | - | 23 | ns |
| | | 6.0V | C _L =50pF | | - | - | 19 | ns |
| CKn HIGH or LOW pulse width | tw | 2.0V | C _L =50pF | see Figure 4 | 120 | - | - | ns |
| | | 4.5V | C _L =50pF | | 24 | - | - | ns |
| | | 6.0V | C _L =50pF | | 20 | - | - | ns |
| Setup time | tsu | 2.0V | C _L =50pF | see Figure 5 | 150 | - | - | ns |
| | | 4.5V | C _L =50pF | | 30 | - | - | ns |
| | | 6.0V | C _L =50pF | | 25 | - | - | ns |
| hold time | th | 2.0V | C _L =50pF | see Figure 5 | 12 | - | - | ns |
| | | 4.5V | C _L =50pF | | 12 | - | - | ns |
| | | 6.0V | C _L =50pF | | 12 | - | - | ns |
| maximum clock frequency | fmax | 2.0V | C _L =50pF | see Figure 4 | - | - | 2.5 | MHz |
| | | 4.5V | C _L =50pF | | - | - | 13 | MHz |
| | | 6.0V | C _L =50pF | | - | - | 16 | MHz |
| AiP74HCT95 | | | | | | | | |
| CKn to Qn propagation delay | t _{PLH} , t _{PHL} | 4.5V | C _L =50pF | see Figure 4 | - | - | 52 | ns |
| transition time | t _{THL} , t _{TLH} | 4.5V | C _L =50pF | see Figure 4 | - | - | 23 | ns |
| CKn HIGH or LOW pulse width | tw | 4.5V | C _L =50pF | see Figure 4 | 24 | - | - | ns |
| setup time | tsu | 4.5V | C _L =50pF | see Figure 5 | 30 | - | - | ns |
| hold time | th | 4.5V | C _L =50pF | see Figure 5 | 12 | - | - | ns |
| maximum clock frequency | fmax | 4.5V | C _L =50pF | see Figure 4 | - | - | 13 | MHz |



4、Testing Circuit

4.1、AC Testing Circuit

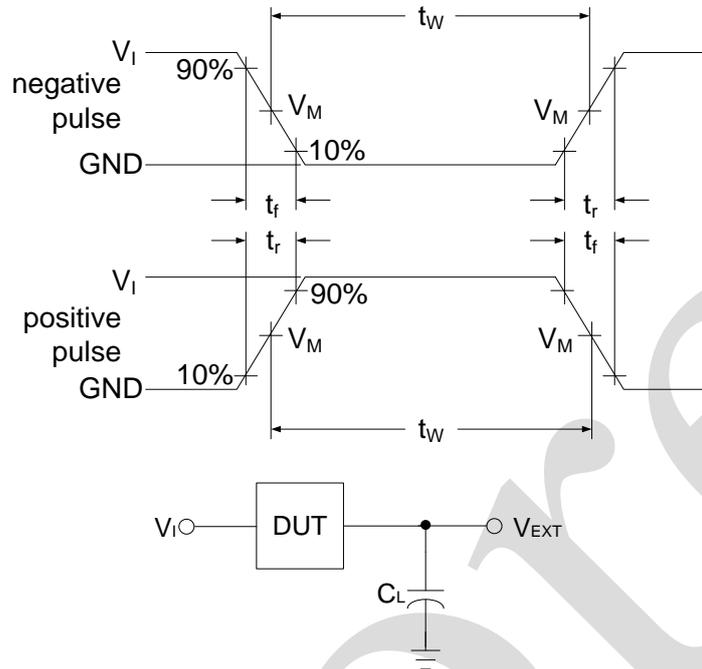


Figure 3. Test circuit for measuring switching times

C_L includes probe and jig capacitance.

4.2、Test Data

| Type | Input | | Load | V_{EXT} | | |
|------------|----------|-------------|------------|-------------------|-------------------|-------------------|
| | V_I | $t_r = t_f$ | C_L | t_{PLH}/t_{PHL} | t_{PLZ}/t_{PZL} | t_{PHZ}/t_{PZH} |
| AiP74HC95 | V_{CC} | 6.0ns | 15pF, 50pF | Open | V_{CC} | GND |
| AiP74HCT95 | 3.0V | 6.0ns | 15pF, 50pF | Open | V_{CC} | GND |

4.3、AC Testing Waveforms

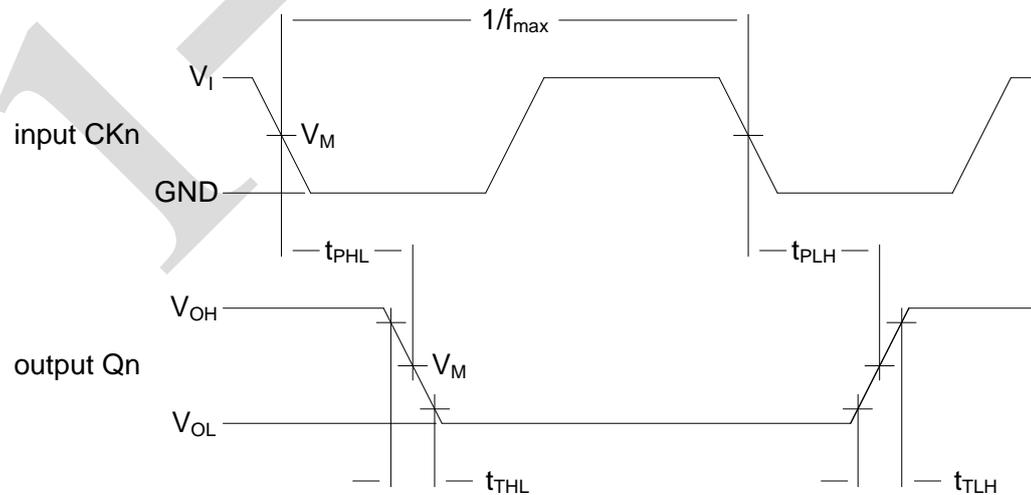


Figure 4. Propagation delay, output transition time

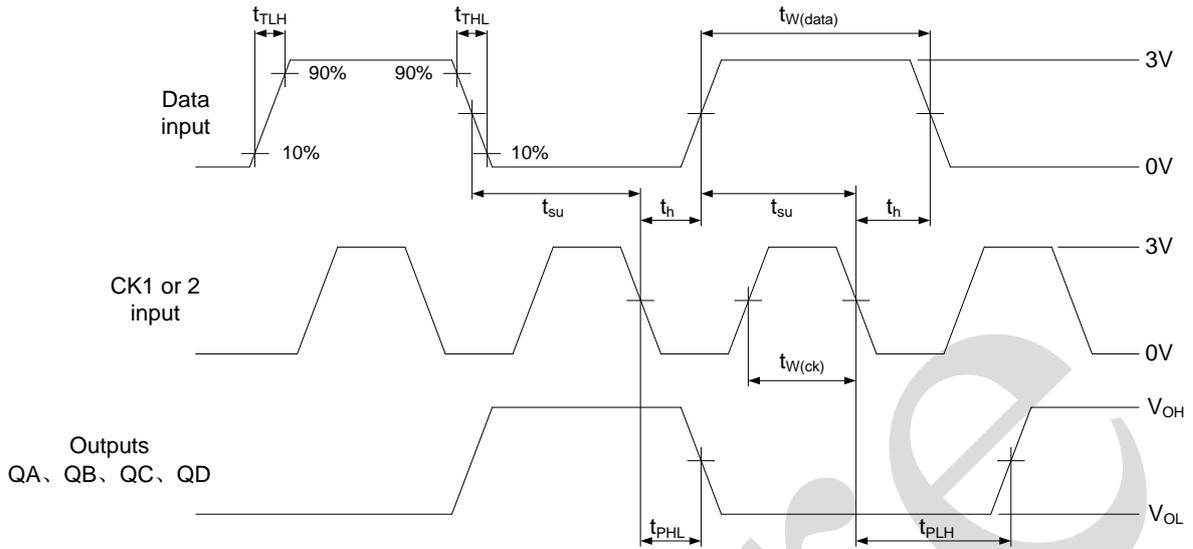


Figure 5. Data set-up and hold times

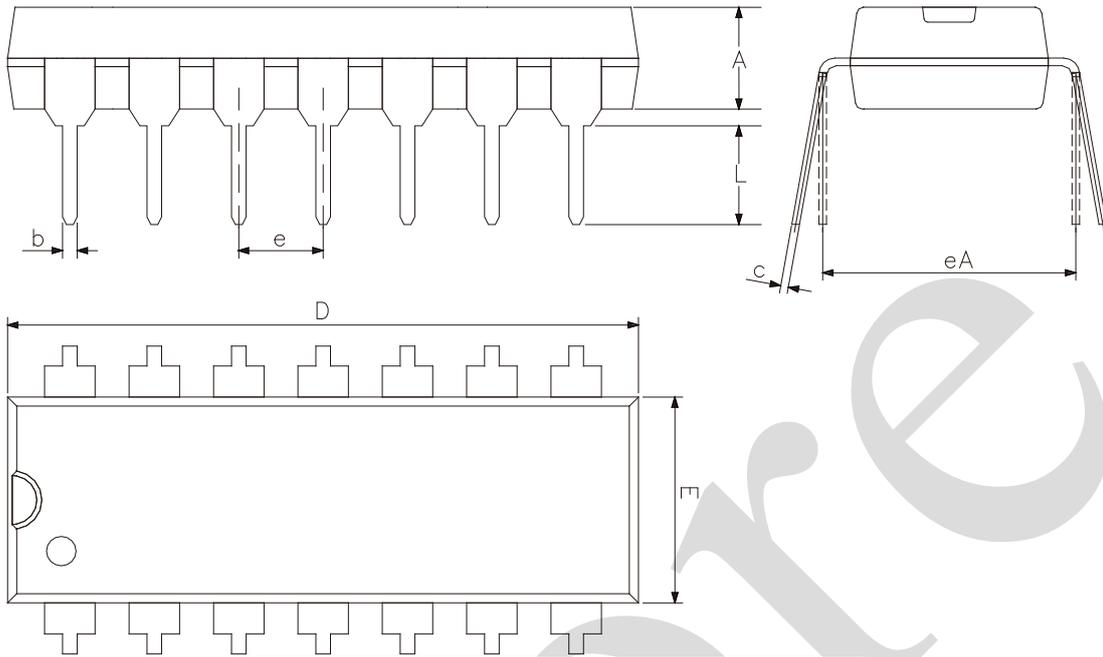
4.4. Measurement Points

| Type | Input | Output |
|------------|---------------------|---------------------|
| | V_M | V_M |
| AiP74HC95 | $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ |
| AiP74HCT95 | 1.3V | 1.3V |



5、Package Information

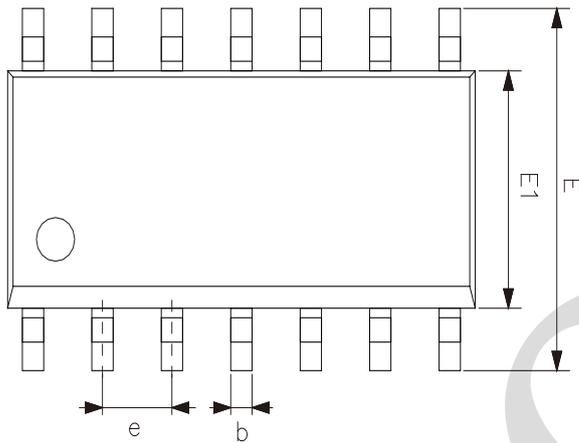
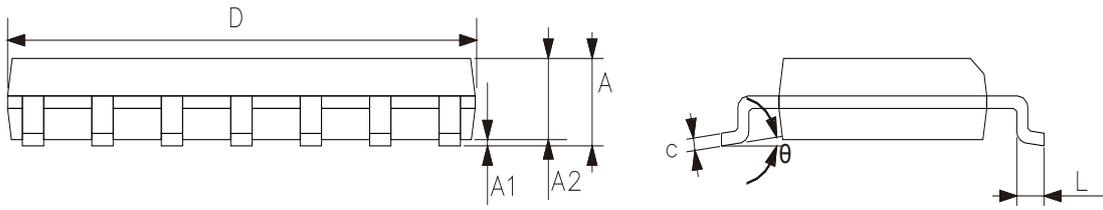
5.1、DIP14



| 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 | — |



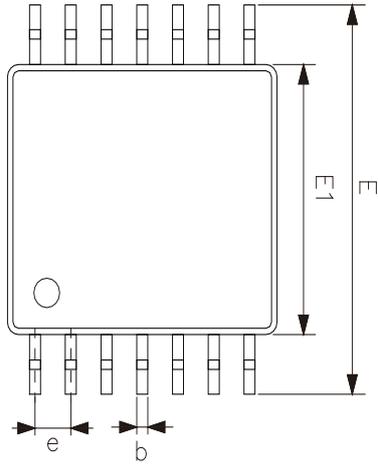
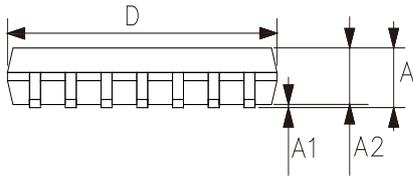
5.2、SOP14



| 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° |



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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