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NC7WZU04

TinyLogic® UHS Dual Unbuffered Inverter

Features

- Space saving SC70 6-lead package
- Ultra small MicroPak™ leadless package
- Unbuffered for crystal oscillator and analog applications
- Balanced output drive: $\pm 8\text{mA}$ at $4.5\text{V } V_{CC}$
- Broad V_{CC} operating range: 1.65V to 5.5V
- Low quiescent power: $I_{CC} < 1\mu\text{A}$ at $5\text{V } V_{CC}$, $T_A = 25^\circ\text{C}$

General Description

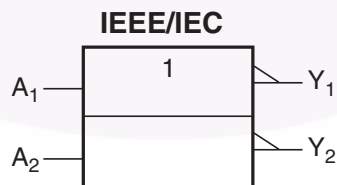
The NC7WZU04 is a dual unbuffered inverter from Fairchild's Ultra High Speed Series of TinyLogic® in the space saving SC70 6-lead package. The special purpose unbuffered circuit design is intended for crystal oscillator or analog applications. The internal circuit consists of only one-stage, the output, to allow for this part to be used in these oscillator or analog applications. The device is fabricated with advanced CMOS technology to achieve ultra high speed with high output drive while maintaining low static power dissipation over a very broad V_{CC} operating range. The device is specified to operate over the 1.65V to $5.5\text{V } V_{CC}$ range. The inputs are high impedance when V_{CC} is 0V . Inputs tolerate voltages up to 7V independent of V_{CC} operating voltage.

Ordering Information

| Order Number | Package Number | Package Code Top Mark | Package Description | Supplied As |
|--------------|----------------|-----------------------|-------------------------------------|---------------------------|
| NC7WZU04P6X | MAA06A | ZU4 | 6-Lead SC70, EIAJ SC88, 1.25mm Wide | 3k Units on Tape and Reel |
| NC7WZU04L6X | MAC06A | B5 | 6-Lead MicroPak, 1.0mm Wide | 5k Units on Tape and Reel |

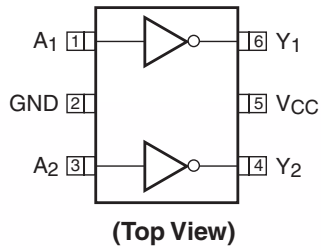
 All packages are lead free per JEDEC: J-STD-020B standard.

Logic Symbol

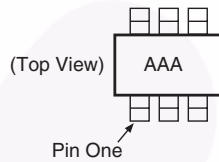


Connection Diagrams

Pin Assignment for SC70



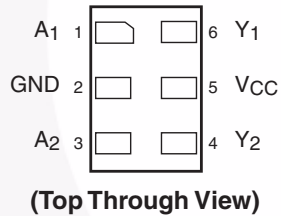
Pin One Orientation Diagram



AAA represents Product Code Top Mark – see ordering code

Note: Orientation of Top Mark determines Pin One location. Read the top product code mark left to right, Pin One is the lower left pin (see diagram).

Pad Assignments for MicroPak



Pin Descriptions

| Pin Name | Description |
|---------------------------------|-------------|
| A ₁ , A ₂ | Data Inputs |
| Y ₁ , Y ₂ | Outputs |

Function Table

$$Y = \bar{A}$$

| Input | Output |
|-------|--------|
| A | Y |
| L | H |
| H | L |

H = HIGH Logic Level
L = LOW Logic Level

Absolute Maximum Ratings

The “Absolute Maximum Ratings” are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The “Recommended Operating Conditions” table will define the conditions for actual device operation.

| Symbol | Parameter | Rating |
|------------------|--|-----------------|
| V_{CC} | Supply Voltage | -0.5V to +7V |
| V_{IN} | DC Input Voltage | -0.5V to +7V |
| V_{OUT} | DC Output Voltage | -0.5V to +7V |
| I_{IK} | DC Input Diode Current @ $V_{IN} \leq -0.5V$ | -50mA |
| I_{OK} | DC Output Diode Current @ $V_{OUT} < -0.5V$ $V_{OUT} > 0.5V, V_{CC} = GND$ | -50mA +50mA |
| I_{OUT} | DC Output Current | $\pm 50mA$ |
| I_{CC}/I_{GND} | DC V_{CC}/GND Current | $\pm 100mA$ |
| T_{STG} | Storage Temperature | -65°C to +150°C |
| T_J | Junction Temperature under Bias | 150°C |
| T_L | Junction Lead Temperature (Soldering, 10 seconds) | 260°C |
| P_D | Power Dissipation @ +85°C SC70-6 Micropak-6 | 215mW 215mW |

Recommended Operating Conditions⁽¹⁾

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

| Symbol | Parameter | Rating |
|---------------|--|--------------------|
| V_{CC} | Supply Voltage Operating | 1.8V to 5.5V |
| V_{CC} | Supply Voltage Data Retention | 1.5V to 5.5V |
| V_{IN} | Input Voltage | 0V to 5.5V |
| V_{OUT} | Output Voltage | 0V to V_{CC} |
| T_A | Operating Temperature | -40°C to +85°C |
| θ_{JA} | Thermal Resistance SC70-6 Micropak-6 | 350°C/W 350°C/W |

Note:

1. Unused inputs must be held HIGH or LOW. They may not float.

DC Electrical Characteristics

| Symbol | Parameter | V _{CC} (V) | Conditions | | T _A = | | | | | Units | | |
|---------------------|---|---------------------|--|-----------------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|-------|---|------|
| | | | | | +25°C | | | -40°C to +85°C | | | | |
| | | | | | Min . | Typ. | Max . | Min. | Max. | | | |
| V _{IH} | HIGH Level Input Voltage | 1.8 to 2.7 | | | 0.85 V _{CC} | | | 0.85 V _{CC} | | V | | |
| | | 3.0 to 5.5 | | | 0.8 V _{CC} | | | 0.8 V _{CC} | | | | |
| V _{IL} | LOW Level Input Voltage | 1.8 to 2.7 | | | | | 0.15 V _{CC} | | 0.15 V _{CC} | V | | |
| | | 3.0 to 5.5 | | | | | 0.2 V _{CC} | | 0.2 V _{CC} | | | |
| V _{OH} | HIGH Level Output Voltage | 1.65 | V _{IN} = V _{IL} | I _{OH} = -100μA | 1.55 | 1.65 | | 1.55 | | V | | |
| | | 1.8 | | | 1.6 | 1.79 | | 1.6 | | | | |
| | | 2.3 | | | 2.1 | 2.29 | | 2.1 | | | | |
| | | 3.0 | | | 2.7 | 2.99 | | 2.7 | | | | |
| | | 4.5 | | | 4.0 | 4.48 | | 4.0 | | | | |
| | | | 1.65 | V _{IN} = GND | I _{OH} = -2mA | 1.29 | 1.52 | | 1.29 | | V | |
| | | | 2.3 | | | I _{OH} = -2mA | 1.9 | 2.19 | | 1.9 | | |
| | | | 3.0 | | | I _{OH} = -4mA | 2.4 | 2.82 | | 2.4 | | |
| | | | 3.0 | | | I _{OH} = -6mA | 2.3 | 2.73 | | 2.3 | | |
| | | | 4.5 | | | I _{OH} = -8mA | 3.8 | 4.24 | | 3.8 | | |
| VOL | LOW Level Output Voltage | 1.65 | V _{IN} = V _{IH} | I _{OL} = 100μA | | 0.01 | 0.2 | | 0.2 | V | | |
| | | 1.8 | | | | 0.01 | 0.2 | | 0.2 | | | |
| | | 2.3 | | | | 0.01 | 0.2 | | 0.2 | | | |
| | | 3.0 | | | | 0.01 | 0.3 | | 0.3 | | | |
| | | 4.5 | | | | 0.01 | 0.5 | | 0.5 | | | |
| | | | 1.65 | V _{IN} = V _{CC} | I _{OL} = 2mA | | 0.10 | 0.24 | | 0.24 | V | |
| | | | 2.3 | | | I _{OL} = 2mA | | 0.12 | 0.3 | | | 0.3 |
| | | | 3.0 | | | I _{OL} = 4mA | | 0.19 | 0.4 | | | 0.4 |
| | | | 3.0 | | | I _{OL} = 6mA | | 0.29 | 0.55 | | | 0.55 |
| | | | 4.5 | | | I _{OL} = 8mA | | 0.29 | 0.55 | | | 0.55 |
| I _{IN} | Input Leakage Current | 0 to 5.5 | V _{IN} = 5.5V, GND | | | | ±0.1 | | ±1.0 | μA | | |
| I _{CC} | Quiescent Supply Current | 1.65 to 5.5 | V _{IN} = 5.5V, GND | | | | 1.0 | | 10 | μA | | |
| I _{CCPEAK} | Peak Supply Current in Analog Operation | 1.8 | V _{OUT} = Open V _{IN} = Adjust for Peak I _{CC} Current | | | 0.2 | | | | mA | | |
| | | 2.5 | | | | 2 | | | | | | |
| | | 3.3 | | | | 5 | | | | | | |
| | | 5.0 | | | | 15 | | | | | | |

AC Electrical Characteristics

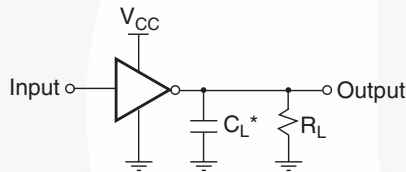
| Symbol | Parameter | V _{CC} (V) | Conditions | T _A = | | | | | Units | Figure Number |
|-------------------------------------|-------------------------------|---------------------|--|---|------|------|----------------|------|-------|----------------------|
| | | | | +25°C | | | -40°C to +85°C | | | |
| | | | | Min. | Typ. | Max. | Min. | Max. | | |
| t _{PLH} , t _{PHL} | Propagation Delay | 1.65 | C _L = 15pF, R _L = 1MΩ | 1.5 | 5.5 | 9.8 | 1.5 | 11.0 | ns | Figure 1 Figure 3 |
| | | 1.8 | | 1.5 | 4.6 | 8.1 | 1.5 | 8.9 | | |
| | | 2.5 ± 0.2 | | 1.2 | 3.3 | 5.7 | 1.2 | 6.3 | | |
| | | 3.3 ± 0.3 | | 0.8 | 2.7 | 4.1 | 0.8 | 4.5 | | |
| | | 5.0 ± 0.5 | | 0.5 | 2.2 | 3.3 | 0.5 | 3.6 | | |
| | | 3.3 ± 0.3 | | C _L = 50pF, R _L = 500Ω | 1.2 | 4.0 | 6.4 | 1.2 | | |
| | | 5.0 ± 0.5 | 0.8 | | 3.4 | 5.6 | 0.8 | 6.2 | | |
| | | C _{IN} | Input Capacitance | 0 | | 3 | | | | pF |
| C _{PD} | Power Dissipation Capacitance | 3.3 | Note 2 | | 3.5 | | | | pF | Figure 2 |
| | | 5.0 | | | 5.5 | | | | | |

Note:

2. C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. (See Figure 2.) C_{PD} is related to I_{CCD} dynamic operating current by the expression:

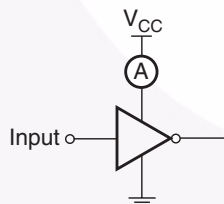
$$I_{CCD} = (C_{PD})(V_{CC})(f_{IN}) + (I_{CCstatic}).$$

AC Loading and Waveforms



*C_L includes load and stray capacitance.
Input PRR = 1.0MHz; t_w = 500ns

Figure 1. AC Test Circuit



Application Note: When operating the NC7WZU04's unbuffered output stage in its linear range, as in oscillator applications, care must be taken to observe maximum power rating for the device and package. The high drive nature of the design of the output stage will result in substantial simultaneous conduction currents when the stage is in the linear region. See the I_{CCPEAK} specification on page 2.

Input = AC Waveform; t_r, t_f = 1.8ns;
PRR = 10MHz; Duty Cycle = 50%

Figure 2. I_{CCD} Test Circuit

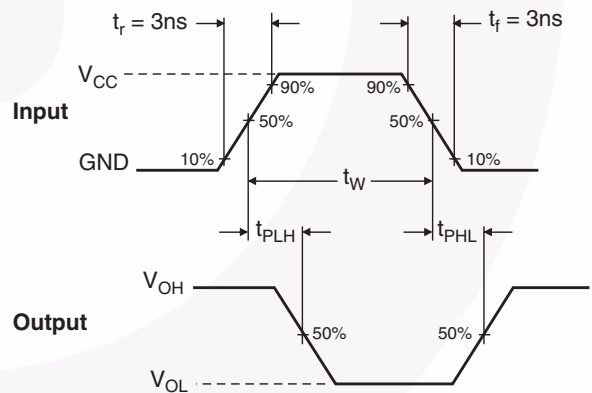


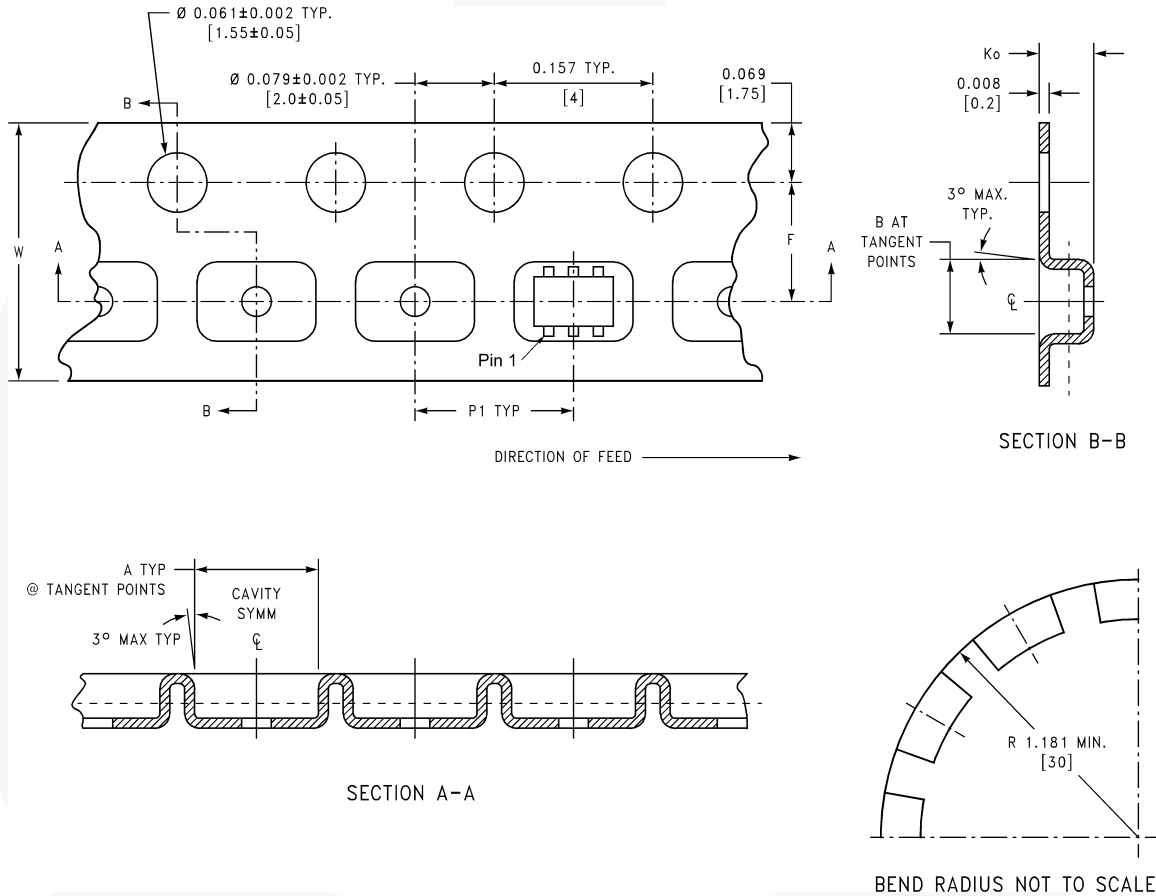
Figure 3. AC Waveforms

Tape and Reel Specification

Tape Format for SC70

| Package Designator | Tape Section | Number Cavities | Cavity Status | Cover Tape Status |
|--------------------|--------------------|-----------------|---------------|-------------------|
| P6X | Leader (Start End) | 125 (typ) | Empty | Sealed |
| | Carrier | 3000 | Filled | Sealed |
| | Trailer (Hub End) | 75 (typ) | Empty | Sealed |

Tape Dimension inches (millimeters)



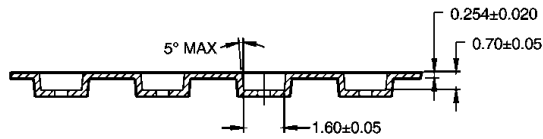
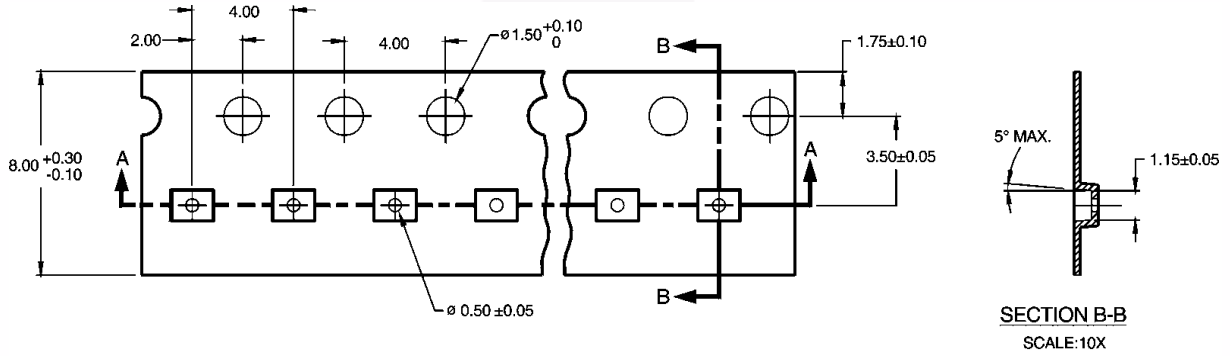
| Package | Tape Size | Dim A | Dim B | Dim F | Dim K _O | Dim P1 | Dim W |
|---------|-----------|-----------------|-----------------|-------------------------------|--------------------------------|--------------|----------------------------|
| SC70-6 | 8mm | 0.093 (2.35) | 0.096 (2.45) | 0.138 ± 0.004 (3.5 ± 0.10) | 0.053 ± 0.004 (1.35 ± 0.10) | 0.157 (4) | 0.315 ± 0.004 (8 ± 0.1) |

Tape and Reel Specification (Continued)

Tape Format for MicroPak

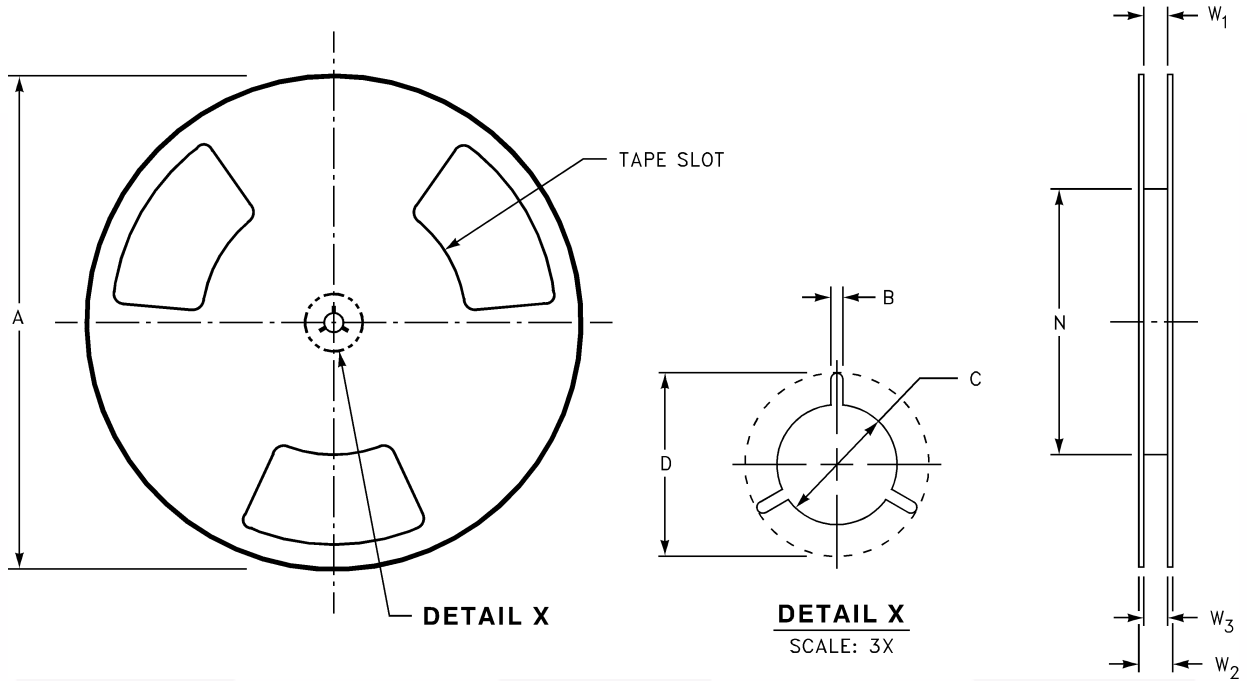
| Package Designator | Tape Section | Number Cavities | Cavity Status | Cover Tape Status |
|--------------------|--------------------|-----------------|---------------|-------------------|
| L6X | Leader (Start End) | 125 (typ.) | Empty | Sealed |
| | Carrier | 3000 | Filled | Sealed |
| | Trailer (Hub End) | 75 (typ) | Empty | Sealed |

Tape Dimension inches (millimeters)



Tape and Reel Specification (Continued)

Reel Dimension for MicroPak inches (millimeters)



| Tape Size | A | B | C | D | N | W1 | W2 | W3 |
|-----------|----------------|-----------------|------------------|------------------|------------------|---|------------------|--|
| 8mm | 7.0 (177.8) | 0.059 (1.50) | 0.512 (13.00) | 0.795 (20.20) | 2.165 (55.00) | 0.331 + 0.059/-0.000 (8.40 + 1.50/-0.00) | 0.567 (14.40) | W1 + 0.078/-0.039 (W1 + 2.00/-1.00) |

Physical Dimensions

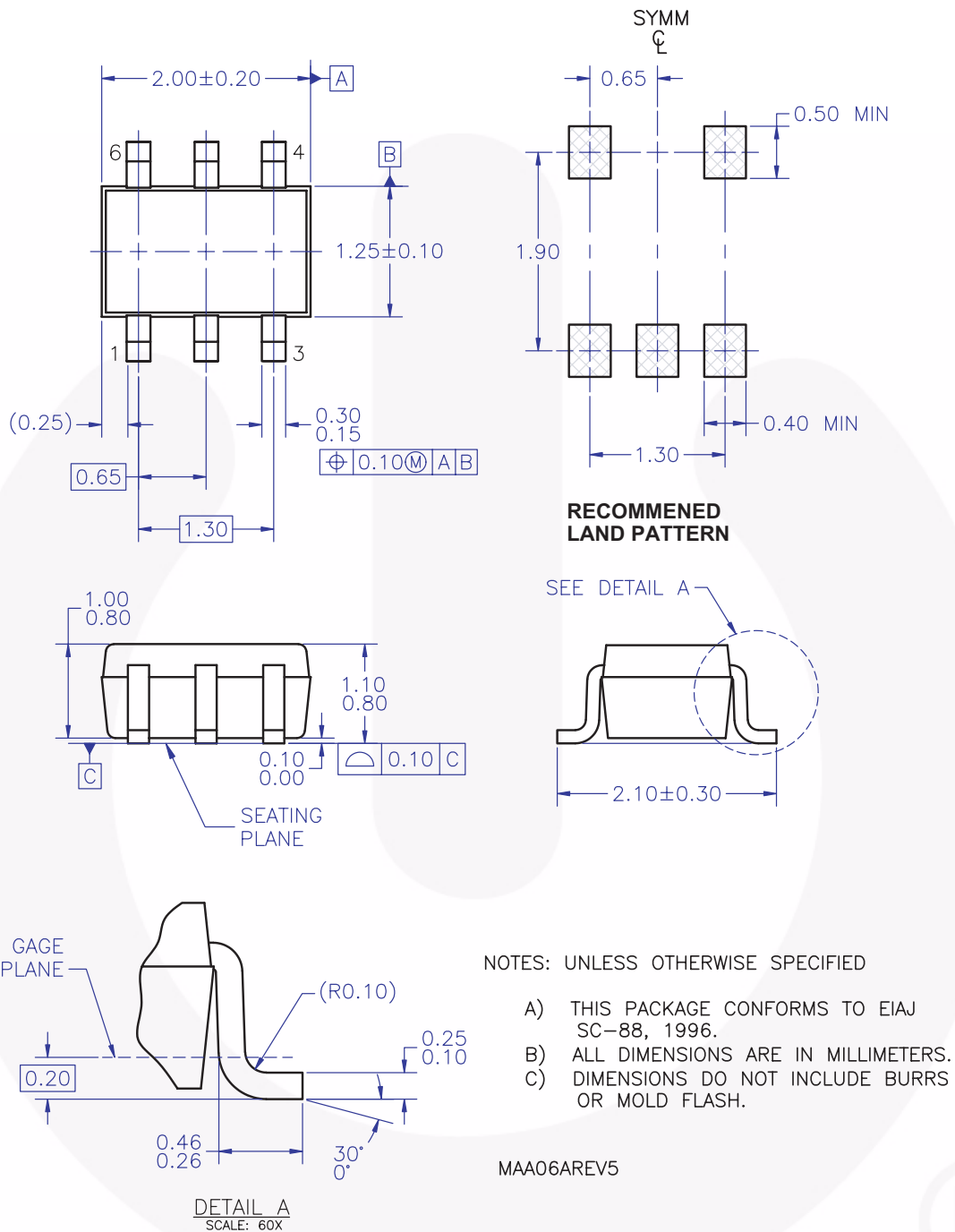


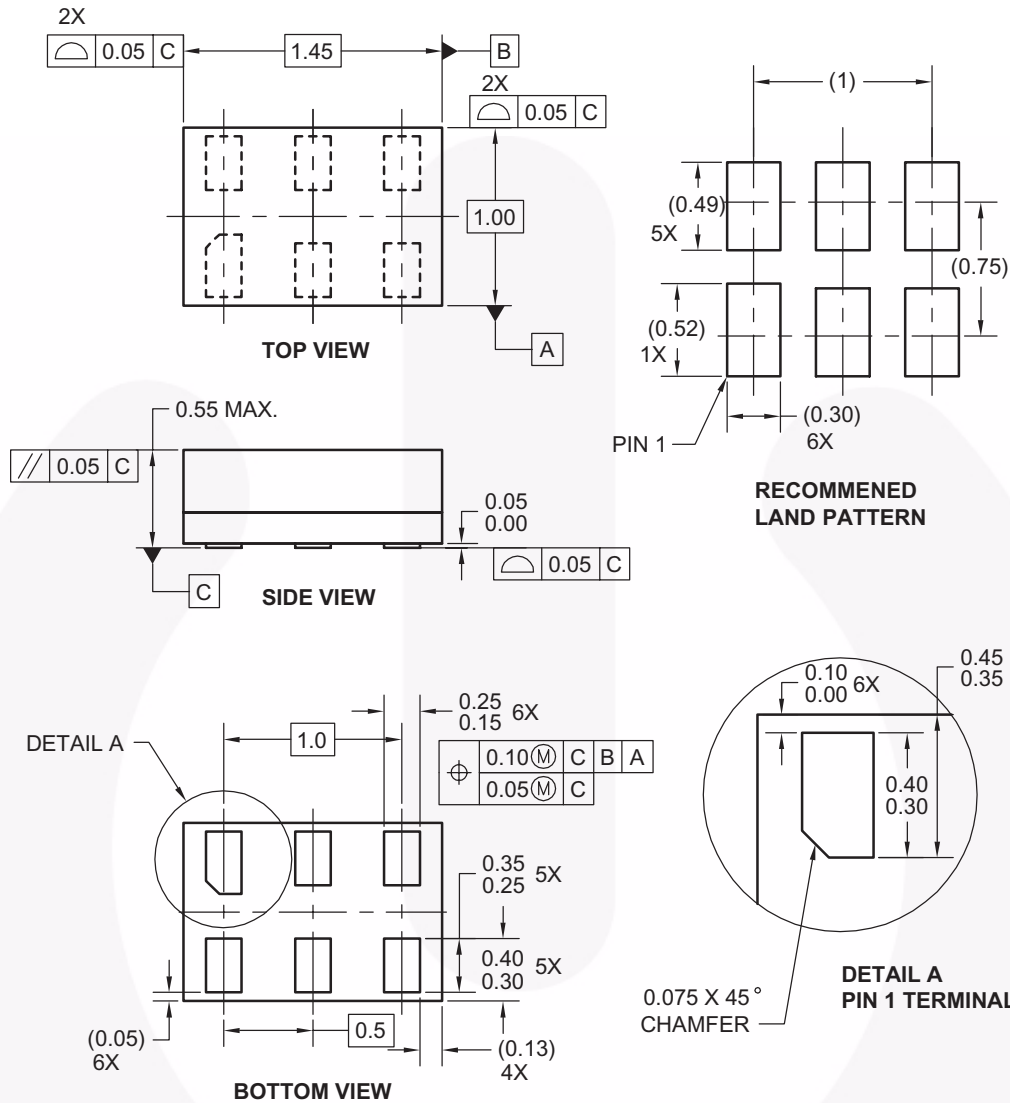
Figure 4. 6-Lead SC70, EIAJ SC88, 1.25mm Wide

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Physical Dimensions (Continued)



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1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-1994

MAC06AREVC

Figure 5. 6-Lead MicroPak, 1.0mm Wide

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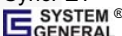
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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».



JONHON

«**JONHON**» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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