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# NC7WZ14

## TinyLogic® UHS Dual Inverter with Schmitt Trigger Inputs

### Features

- Ultra-High Speed:  $t_{PD}$  3.2ns (Typical) into 50pF at 5V  $V_{CC}$
- High Output Drive:  $\pm 24mA$  at 3V  $V_{CC}$
- Broad  $V_{CC}$  Operating Range: 1.65V to 5.5V
- Matches Performance of LCX when Operated at 3.3V  $V_{CC}$
- Power Down High Impedance Inputs/Outputs
- Over-Voltage Tolerance Inputs Facilitate 5V to 3V Translation
- Proprietary Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Space-Saving SC70 Package

### Description

The NC7WZ14 is a dual inverter with Schmitt trigger input from Fairchild's Ultra-High Speed (UHS) Series of TinyLogic. 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 5.5V  $V_{CC}$  range. The inputs and outputs are high-impedance when  $V_{CC}$  is 0V. Inputs tolerate voltages up to 7V independent of  $V_{CC}$  operating voltage. Schmitt trigger inputs achieve typically 1V hysteresis between the positive-and negative-going input threshold voltage at 5V.

### Ordering Information

Part Number	Operating Temperature	Top Mark	Package	Packing Method
NC7WZ14P6X	-40 to +85°C	Z14	6-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7WZ14EP6X	-40 to +125°C	Z14	6-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7WZ14L6X	-40 to +85°C	A9	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7WZ14FHX	-40 to +85°C	A9	6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

## Connection Diagrams

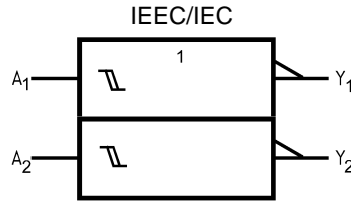


Figure 1. Logic Symbol

## Pin Configurations

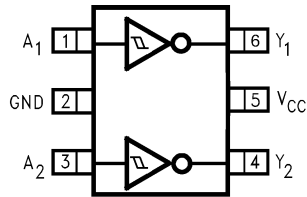


Figure 2. SC70 (Top View)

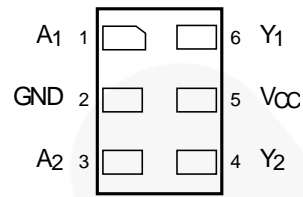
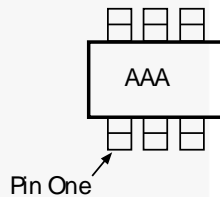


Figure 3. MicroPak (Top Through View)



### Notes:

1. AAA represents Product Code Top Mark (*see ordering code*).
2. Orientation of Top Mark determines Pin One location. Read the top product code mark left to right. Pin One is the lower left pin.

Figure 4. SC70 Pin 1 Orientation

## Pin Definitions

Pin # SC70	Pin # MicroPak	Name	Description
1	1	A <sub>1</sub>	Input
2	2	GND	Ground
3	3	A <sub>2</sub>	Input
4	4	Y <sub>2</sub>	Output
5	5	V <sub>CC</sub>	Supply Voltage
6	6	Y <sub>1</sub>	Output

## Function Table

Y = /A

Inputs	Output
<b>A</b>	<b>Y</b>
L	H
H	L

H = HIGH Logic Level

L = LOW Logic Level

## Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter		Min.	Max.	Unit	
$V_{CC}$	Supply Voltage		-0.5	7.0	V	
$V_{IN}$	DC Input Voltage		-0.5	7.0	V	
$V_{OUT}$	DC Output Voltage		-0.5	7.0	V	
$I_{IK}$	DC Input Diode Current	$V_{IN} < -0.5V$		-50	mA	
$I_{OK}$	DC Output Diode Current	$V_{OUT} < -0.5V$		-50	mA	
$I_{OUT}$	DC Output Current			±100	mA	
$I_{CC}$ or $I_{GND}$	DC $V_{CC}$ or Ground Current			±50	mA	
$T_{STG}$	Storage Temperature Range		-65	+150	°C	
$T_J$	Junction Temperature Under Bias			+150	°C	
$T_L$	Junction Lead Temperature (Soldering, 10 Seconds)			+260	°C	
$P_D$	Power Dissipation	SC70-6	$T_A=85^\circ C$	170	mW	
			$T_A=125^\circ C$	104		
		MicroPak-6				130
		MicroPak2-6				120
ESD	Human Body Model, JEDEC:JESD22-A114			4000	V	
	Charge Device Model, JEDEC:JESD22-C101			2000		

## Recommended Operating Conditions<sup>(3)</sup>

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	Conditions	Min.	Max.	Unit
$V_{CC}$	Supply Voltage Operating		1.65	5.50	V
	Supply Voltage Data Retention		1.5	5.5	
$V_{IN}$	Input Voltage		0	5.5	V
$V_{OUT}$	Output Voltage		0	$V_{CC}$	V
$T_A$	Operating Temperature	SC70-6	-40	+125	°C
		MicroPak-6	-40	+85	
		MicroPak2-6	-40	+85	
$\theta_{JA}$	Thermal Resistance	SC70-6		390	°C/W
		MicroPak-6		500	
		MicroPak2-6		560	

**Note:**

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

### DC Electrical Characteristics

Symbol	Parameter	V <sub>CC</sub> (V)	Conditions	T <sub>A</sub> =+25°C			T <sub>A</sub> =-40 to +85°C		T <sub>A</sub> =-40 to +125°C		Units
				Min.	Typ.	Max.	Min.	Max.	Min.	Max.	
V <sub>P</sub>	Positive Threshold Voltage	1.65		0.60		1.40	0.60	1.40	0.60	1.40	V
		1.80		0.70		1.50	0.70	1.50	0.70	1.50	
		2.30		1.00		1.80	1.00	1.80	1.00	1.80	
		3.00		1.30		2.20	1.30	2.20	1.30	2.20	
		4.50		1.90		3.10	1.90	3.10	2.00	3.20	
		5.50		2.20		3.60	2.20	3.60	2.30	3.70	
V <sub>N</sub>	Negative Threshold Voltage	1.65		0.20	0.50	0.80	0.20	0.80	0.30	0.90	V
		1.80		0.25	0.56	0.90	0.25	0.90	0.35	1.00	
		2.30		0.40	0.75	1.15	0.40	1.15	0.50	1.20	
		3.00		0.60	0.98	1.50	0.60	1.50	0.70	1.60	
		4.50		1.00	1.42	2.00	1.00	2.00	1.10	2.20	
		5.50		1.20	1.68	2.30	1.20	2.30	1.40	2.50	
V <sub>H</sub>	Hysteresis Voltage	1.65		0.10	0.48	0.90	0.10	0.90	0.10	0.90	V
		1.80		0.15	0.51	1.00	0.15	1.00	0.15	1.00	
		2.30		0.25	0.62	1.10	0.25	1.10	0.25	1.10	
		3.00		0.40	0.76	1.20	0.40	1.20	0.40	1.20	
		4.50		0.60	1.01	1.50	0.60	1.50	0.60	1.50	
		5.50		0.70	1.20	1.70	0.70	1.70	0.70	1.70	
V <sub>OH</sub>	HIGH Level Output Voltage	1.65	V <sub>IN</sub> =V <sub>IL</sub> , I <sub>OH</sub> =-100μA	1.55	1.65		1.55		1.55		V
		1.80		1.70	1.80		1.70		1.70		
		2.30		2.20	2.30		2.20		2.20		
		3.00		2.90	3.00		2.90		2.90		
		4.50		4.40	4.50		4.40		4.40		
		1.65	I <sub>OH</sub> =-4mA	1.29	1.52		1.29		1.26		
		2.30	I <sub>OH</sub> =-8mA	1.90	2.14		1.90		1.80		
		3.00	I <sub>OH</sub> =-16mA	2.40	2.75		2.40		2.30		
		3.00	I <sub>OH</sub> =-24mA	2.30	2.62		2.30		2.20		
		4.50	I <sub>OH</sub> =-32mA	3.80	4.13		3.80		3.70		
V <sub>OL</sub>	LOW Level Output Voltage	1.65	V <sub>IN</sub> =V <sub>IH</sub> , I <sub>OL</sub> =100μA		0.00	0.10		0.10		0.10	V
		1.80			0.00	0.10		0.10		0.10	
		2.30			0.00	0.10		0.10		0.10	
		3.00			0.00	0.10		0.10		0.10	
		4.50			0.00	0.10		0.10		0.10	
		1.65	I <sub>OL</sub> =4mA		0.08	0.24		0.24		0.26	
		2.30	I <sub>OL</sub> =8mA		0.10	0.30		0.30		0.32	
		3.00	I <sub>OL</sub> =16mA		0.16	0.40		0.40		0.43	
		3.00	I <sub>OL</sub> =24mA		0.24	0.55		0.55		0.60	
		4.50	I <sub>OL</sub> =32mA		0.25	0.55		0.55		0.60	
I <sub>IN</sub>	Input Leakage Current	0 to 5.5	V <sub>IN</sub> =5.5V, GND			±0.1		±1.0		±2.0	μA
I <sub>OFF</sub>	Power Off Leakage Current	0	V <sub>IN</sub> or V <sub>OUT</sub> =5.5V			1		10		20	μA
I <sub>CC</sub>	Quiescent Supply Current	1.65 to 5.50	V <sub>IN</sub> =5.5V, GND			1.0		10		20	μA

## AC Electrical Characteristics

Symbol	Parameter	V <sub>CC</sub> (V)	Conditions	T <sub>A</sub> =+25°C			T <sub>A</sub> =-40 to +85°C		T <sub>A</sub> =-40 to +125°C		Units	Figure
				Min.	Typ.	Max.	Min.	Max.	Min.	Max.		
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay	1.65	C <sub>L</sub> =15pF, R <sub>L</sub> =1MΩ	2.5	7.6	13.1	2.5	14.5	2.5	14.7	ns	Figure 5 Figure 6
		1.80		2.5	6.3	10.9	2.5	12.0	2.5	12.3		
		2.50 ± 0.20		1.8	4.3	7.4	1.8	8.1	1.8	8.4		
		3.30 ± 0.30		1.5	3.3	5.0	1.5	5.5	1.5	5.8		
		5.00 ± 0.50		1.0	2.7	4.1	1.0	4.5	1.0	4.8		
		3.30 ± 0.30		C <sub>L</sub> =50pF, R <sub>L</sub> =500Ω	1.8	4.0	6.0	1.8	6.6	1.8		6.9
5.00 ± 0.50	1.2	3.2	4.9		1.2	5.4	1.2	5.7				
C <sub>IN</sub>	Input Capacitance	0.00			2.5						pF	
C <sub>PD</sub>	Power Dissipation Capacitance <sup>(4)</sup>	3.30			11.0						pF	Figure 7
		5.00			12.5							

**Note:**

4. C<sub>PD</sub> is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I<sub>CCD</sub>) at no output loading and operating at 50% duty cycle. C<sub>PD</sub> is related to I<sub>CCD</sub> dynamic operating current by the expression: I<sub>CCD</sub>=(C<sub>PD</sub>)(V<sub>CC</sub>)(f<sub>IN</sub>)+(I<sub>CC</sub>static).

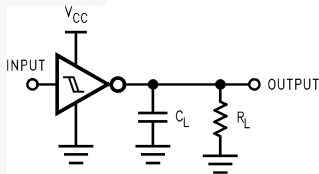


Figure 5. AC Test Circuit

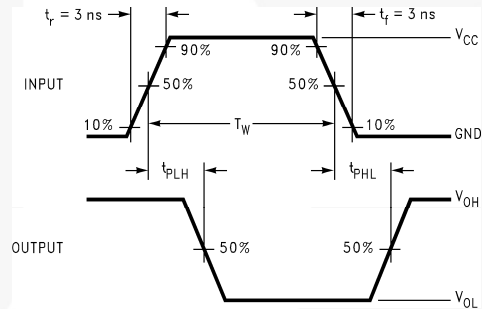


Figure 6. AC Waveforms

**Note:**

5. C<sub>L</sub> includes load and stray capacitance; Input PRR=1.0MHz; t<sub>W</sub>=500ns

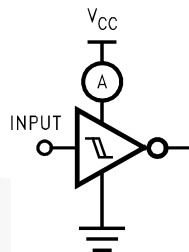
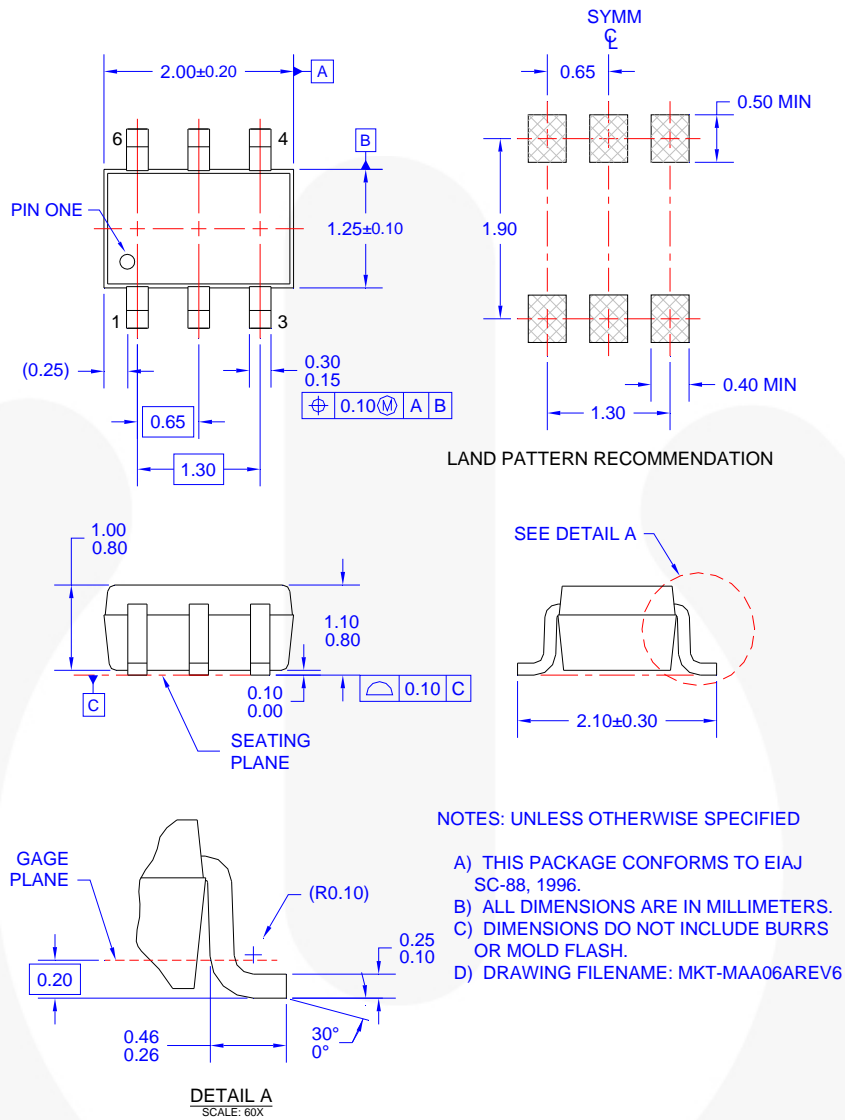


Figure 7. I<sub>CCD</sub> Test Circuit

**Note:**

6. Input=AC Waveform; t<sub>r</sub>=t<sub>f</sub>=1.8ns; PRR=variable; Duty Cycle =50%.

## Physical Dimensions



**Figure 8. 6-Lead, SC70, EIAJ SC-88a, 1.25mm Wide**

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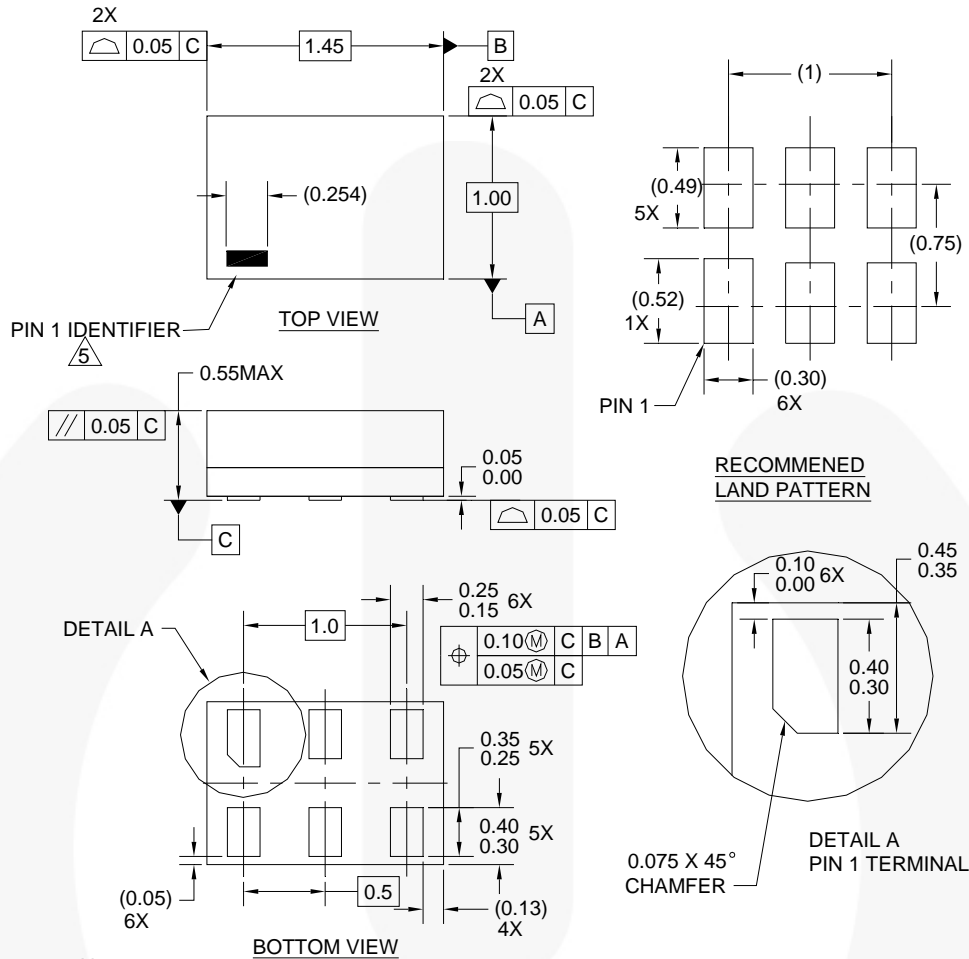
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[http://www.fairchildsemi.com/products/analog/pdf/sc70-6\\_tr.pdf](http://www.fairchildsemi.com/products/analog/pdf/sc70-6_tr.pdf).

Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status
P6X	Leader (Start End)	125 (Typical)	Empty	Sealed
	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed

## Physical Dimensions



**Notes:**

1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-1994
4. FILENAME AND REVISION: MAC06AREV4
5. PIN ONE IDENTIFIER IS 2X LENGTH OF ANY OTHER LINE IN THE MARK CODE LAYOUT.

**Figure 9. 6-Lead, MicroPak™, 1.0mm Wide**

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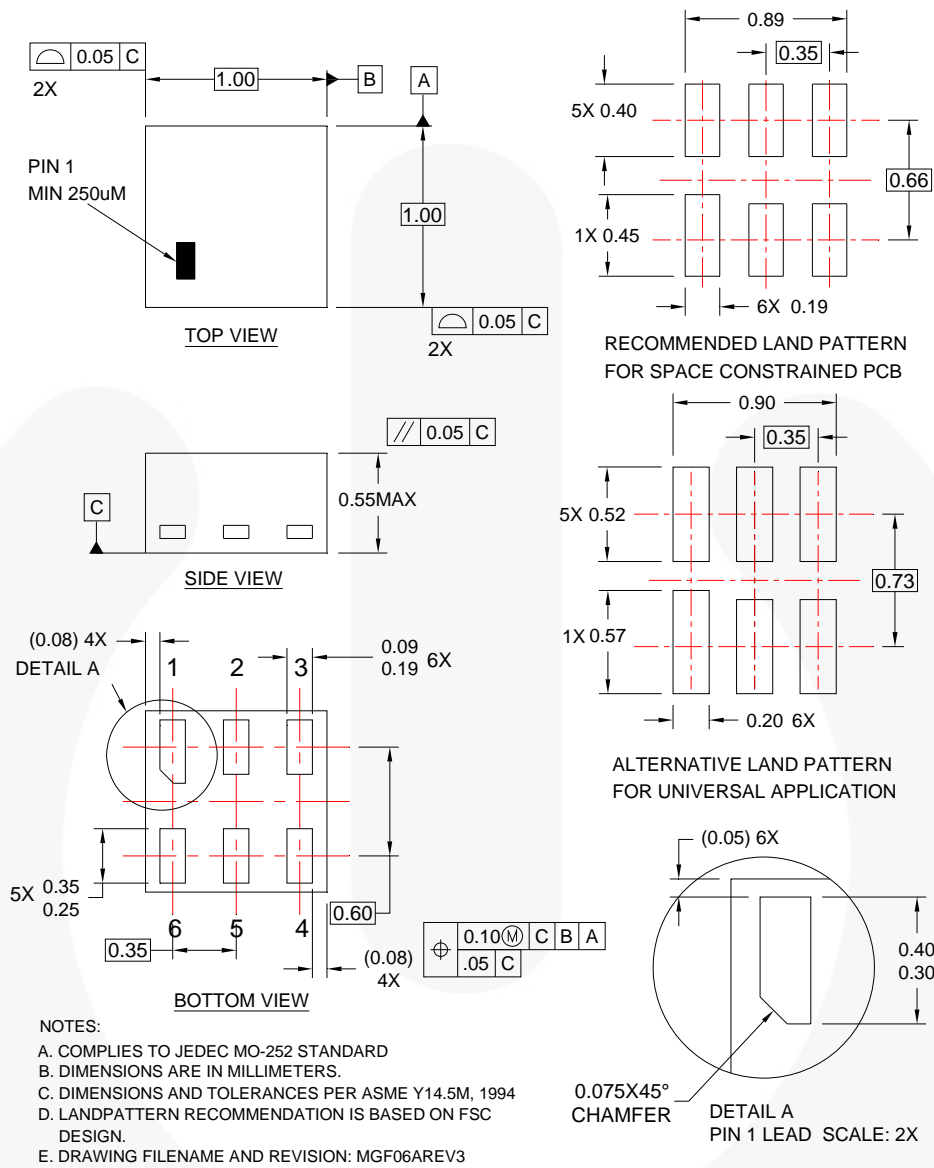
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Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status
L6X	Leader (Start End)	125 (Typical)	Empty	Sealed
	Carrier	5000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed



## Physical Dimensions



**Figure 10. 6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch**

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[http://www.fairchildsemi.com/packaging/MicroPAK2\\_6L\\_tr.pdf](http://www.fairchildsemi.com/packaging/MicroPAK2_6L_tr.pdf).

Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status
FHX	Leader (Start End)	125 (Typical)	Empty	Sealed
	Carrier	5000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed



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| Auto-SPM™  | F-PFS™  | PowerTrench®  | <b>the power franchise</b>  |
| AX-CAP™  | FRFET®  | PowerXS™  | TinyBoost™  |
| BitSiC®  | Global Power Resource™  | Programmable Active Droop™  | TinyBuck™   |
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