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## NC7WZ240 TinyLogic® UHS Dual Inverting Buffer with 3-STATE Outputs

### General Description

The NC7WZ240 is a Dual Inverting Buffer with independent active LOW enables for the 3-STATE outputs. The Ultra High Speed device is fabricated with advanced CMOS technology to achieve superior switching performance with high output drive while maintaining low static power dissipation over a broad  $V_{CC}$  operating range. The device is specified to operate over the 1.65V to 5.5V  $V_{CC}$  operating range. The inputs and outputs are high impedance when  $V_{CC}$  is 0V. Inputs tolerate voltages up to 5.5V independent of  $V_{CC}$  operating range. Outputs tolerate voltages above  $V_{CC}$  when in the 3-STATE condition.

### Features

- Space saving US8 surface mount package
- MicroPak™ Pb-Free leadless package
- Ultra High Speed;  $t_{PD}$  2.3 ns typ into 50 pF at 5V  $V_{CC}$
- High Output Drive;  $\pm 24$  mA at 3V  $V_{CC}$
- Broad  $V_{CC}$  Operating Range: 1.65V to 5.5V
- Matches the performance of LCX when operated at 3.3V  $V_{CC}$
- Power down high impedance inputs/outputs
- Overvoltage tolerant inputs facilitate 5V to 3V translation
- Outputs are overvoltage tolerant in 3-STATE mode
- Proprietary noise/EMI reduction circuitry implemented

### Ordering Code:

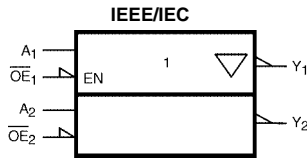
Order Number	Package Number	Product Code Top Mark	Package Description	Supplied As
NC7WZ240K8X	MAB08A	WZ40	8-Lead US8, JEDEC MO-187, Variation CA 3.1mm Wide	3k Units on Tape and Reel
NC7WZ240L8X	MAC08A	U7	Pb-Free 8-Lead MicroPak, 1.6 mm Wide	5k Units on Tape and Reel

Pb-Free package per JEDEC J-STD-020B.

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NC7WZ240 TinyLogic® UHS Dual Inverting Buffer with 3-STATE Outputs

**Logic Symbol**



**Pin Descriptions**

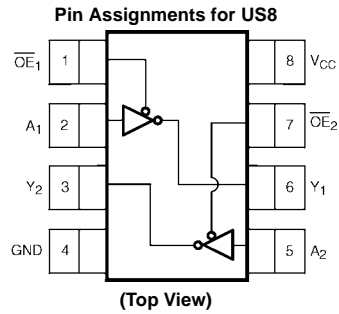
Pin Names	Description
$\overline{OE}_n$	Enable Inputs for 3-STATE Outputs
$A_n$	Inputs
$Y_n$	3-STATE Outputs

**Function Table**

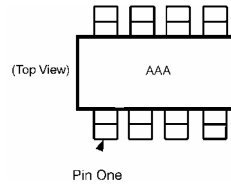
Inputs		Output
$\overline{OE}$	$A_n$	$Y_n$
L	L	H
L	H	L
H	L	Z
H	H	Z

H = HIGH Logic Level    L = LOW Logic Level    Z = 3-STATE

**Connection Diagrams**

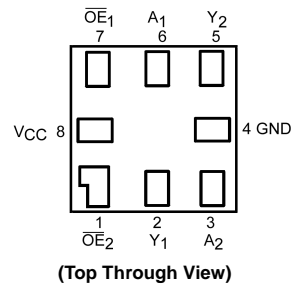


**Pin One Orientation Diagram**



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 Assignment for MicroPak**



Absolute Maximum Ratings <sup>(Note 1)</sup>			Recommended Operating Conditions <sup>(Note 3)</sup>		
Supply Voltage ( $V_{CC}$ )	-0.5V to +7.0V		Supply Voltage Operating ( $V_{CC}$ )	1.65V to 5.5V	
DC Input Voltage ( $V_{IN}$ ) (Note 2)	-0.5V to +7.0V		Supply Voltage Data Retention ( $V_{CC}$ )	1.5V to 5.5V	
DC Output Voltage ( $V_{OUT}$ )	-0.5V to +7.0V		Input Voltage ( $V_{IN}$ )	0V to 5.5V	
DC Input Diode Current ( $I_{IK}$ ) @ $V_{IN} < 0V$	-50 mA		Output Voltage ( $V_{OUT}$ )		
DC Output Diode Current ( $I_{OK}$ ) @ $V_{OUT} < 0V$	-50 mA		Active State	0V to $V_{CC}$	
DC Output Source/Sink Current ( $I_{OUT}$ )	$\pm 50$ mA		3-STATE	0V to 5.5V	
DC $V_{CC}$ /Ground Current ( $I_{CC}/I_{GND}$ )	$\pm 100$ mA		Operating Temperature ( $T_A$ )	-40°C to +85°C	
Storage Temperature Range ( $T_{STG}$ )	-65°C to +150°C		Input Rise and Fall Time ( $t_r, t_f$ )		
Junction Lead Temperature under Bias ( $T_J$ )	+150°C		$V_{CC}$ @ 1.8V, 0.15V, 2.5V $\pm 0.2V$	0 ns/V to 20 ns/V	
Junction Lead Temperature ( $T_L$ ) (Soldering, 10 seconds)	+260°C		$V_{CC}$ @ 3.3V $\pm 0.3V$	0 ns/V to 10 ns/V	
Power Dissipation ( $P_D$ ) @ +85°C	250 mW		$V_{CC}$ @ 5.0V $\pm 0.5V$	0 ns/V to 5 ns/V	
			Thermal Resistance ( $\theta_{JA}$ )	250°C/W	

**Note 1:** Absolute maximum ratings are DC values beyond which the device may be damaged or have its useful life impaired. The datasheet specifications should be met, without exception, to ensure that the system design is reliable over its power supply, temperature, and output/input loading variables. Fairchild does not recommend operation outside datasheet specifications.

**Note 2:** The input and output negative voltage ratings may be exceeded if the input and output diode current ratings are observed.

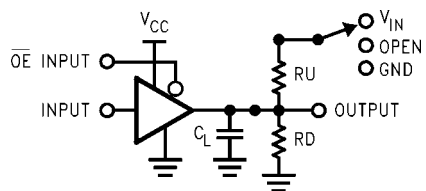
**Note 3:** Unused inputs must be held HIGH or LOW. They may not float.

### DC Electrical Characteristics

Symbol	Parameter	$V_{CC}$ (V)	$T_A = +25^\circ C$			$T_A = -40^\circ C$ to $+85^\circ C$		Units	Conditions				
			Min	Typ	Max	Min	Max						
$V_{IH}$	HIGH Level Input Voltage	1.65 to 1.95 2.3 to 5.5	0.75 $V_{CC}$ 0.7 $V_{CC}$			0.75 $V_{CC}$ 0.7 $V_{CC}$		V					
$V_{IL}$	LOW Level Input Voltage	1.65 to 1.95 2.3 to 5.5		0.25 $V_{CC}$ 0.3 $V_{CC}$		0.25 $V_{CC}$ 0.3 $V_{CC}$		V					
$V_{OH}$	HIGH Level Output Voltage	1.65	1.55	1.65		1.55		V	$V_{IN} = V_{IH}$ or $V_{IL}$	$I_{OH} = -100 \mu A$			
		2.3	2.2	2.3		2.2							
		3.0	2.9	3.0		2.9							
		4.5	4.4	4.5		4.4							
$V_{OL}$	LOW Level Output Voltage	1.65	1.29	1.52		1.29		V	$V_{IN} = V_{IH}$ or $V_{IL}$	$I_{OH} = -4$ mA $I_{OH} = -8$ mA $I_{OH} = -16$ mA $I_{OH} = -24$ mA $I_{OH} = -32$ mA			
		2.3	1.9	2.15		1.9							
		3.0	2.4	2.80		2.4							
		3.0	2.3	2.68		2.3							
$V_{OL}$	LOW Level Output Voltage	4.5	3.8	4.20		3.8		V	$V_{IN} = V_{IH}$ or $V_{IL}$	$I_{OL} = 100 \mu A$			
		1.65	0.08	0.24		0.24							
		2.3	0.10	0.3		0.3							
		3.0	0.15	0.4		0.4							
$V_{OL}$	LOW Level Output Voltage	3.0	0.22	0.55		0.55		V	$V_{IN} = V_{IH}$ or $V_{IL}$	$I_{OL} = 4$ mA $I_{OL} = 8$ mA $I_{OL} = 16$ mA $I_{OL} = 24$ mA $I_{OL} = 32$ mA			
		4.5	0.22	0.55		0.55							
		$I_{IN}$	Input Leakage Current	0 to 5.5		$\pm 0.1$					$\pm 1$	$\mu A$	$V_{IN} = 5.5V, GND$
		$I_{OZ}$	3-STATE Output Leakage	1.65 to 5.5		$\pm 0.5$					$\pm 5$	$\mu A$	$V_{IN} = V_{IH}$ or $V_{IL}$ $0 \leq V_{OUT} \leq 5.5V$
$I_{OFF}$	Power Off Leakage Current	0.0		1		10	$\mu A$	$V_{IN}$ or $V_{OUT} = 5.5V$					
$I_{CC}$	Quiescent Supply Current	1.65 to 5.5		1		10	$\mu A$	$V_{IN} = 5.5V, GND$					

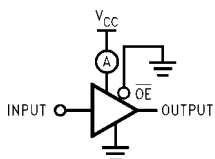
Noise Characteristics										
Symbol	Parameter	V <sub>CC</sub> (V)	T <sub>A</sub> = +25°C		Units	Conditions				
			Typ	Max						
V <sub>OLP</sub> (Note 4)	Quiet Output Maximum Dynamic V <sub>OL</sub>	5.0		1.0	V	C <sub>L</sub> = 50 pF				
V <sub>OLV</sub> (Note 4)	Quiet Output Minimum Dynamic V <sub>OL</sub>	5.0		1.0	V	C <sub>L</sub> = 50 pF				
V <sub>OHV</sub> (Note 4)	Quiet Output Minimum Dynamic V <sub>OH</sub>	5.0		4.0	V	C <sub>L</sub> = 50 pF				
V <sub>IHD</sub> (Note 4)	Minimum HIGH Level Dynamic Input Voltage	5.0		3.5	V	C <sub>L</sub> = 50 pF				
V <sub>ILD</sub> (Note 4)	Maximum LOW Level Dynamic Input Voltage	5.0		1.5	V	C <sub>L</sub> = 50 pF				
<b>Note 4:</b> Parameter guaranteed by design.										
AC Electrical Characteristics										
Symbol	Parameter	V <sub>CC</sub> (V)	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		Units	Conditions	Figure Number
			Min	Typ	Max	Min	Max			
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay A <sub>n</sub> to Y <sub>n</sub>	1.8 ± 0.15	2.0		12.0	2.0	13.0	ns	C <sub>L</sub> = 15 pF R <sub>D</sub> = 1 MΩ S1 = Open	Figures 1, 3
		2.5 ± 0.2	1.0		7.5	1.0	8.0			
		3.3 ± 0.3	0.8		5.2	0.8	5.5			
		5.0 ± 0.5	0.5		4.5	0.5	4.8			
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay A <sub>n</sub> to Y <sub>n</sub>	3.3 ± 0.3	1.2		5.7	1.2	6.0	ns	C <sub>L</sub> = 50 pF R <sub>D</sub> = 500Ω S1 = Open	Figures 1, 3
		5.0 ± 0.5	0.8		5.0	0.8	5.3			
t <sub>OSLH</sub> , t <sub>OSSL</sub>	Output to Output Skew (Note 5)	3.3 ± 0.3			1.0		1.0	ns	C <sub>L</sub> = 50 pF R <sub>D</sub> = 500Ω S1 = Open	Figures 1, 3
		5.0 ± 0.5			0.8		0.8			
t <sub>PZL</sub> , t <sub>PZH</sub>	Output Enable Time	1.8 ± 0.15	3.0		14.0	3.0	15.0	ns	C <sub>L</sub> = 50 pF R <sub>D</sub> , R <sub>U</sub> = 500 Ω S1 = GND for t <sub>PZH</sub> S1 = V <sub>I</sub> for t <sub>PZL</sub> V <sub>I</sub> = 2 × V <sub>CC</sub>	Figures 1, 3
		2.5 ± 0.2	1.8		8.5	1.8	9.0			
		3.3 ± 0.3	1.2		6.2	1.2	6.5			
		5.5 ± 0.5	0.8		5.5	0.8	5.8			
t <sub>PLZ</sub> , t <sub>PHZ</sub>	Output Disable Time	1.8 ± 0.15	2.5		12.0	2.5	13.0	ns	C <sub>L</sub> = 50 pF R <sub>D</sub> , R <sub>U</sub> = 500 Ω S1 = GND for t <sub>PZH</sub> S1 = V <sub>I</sub> for t <sub>PZL</sub> V <sub>I</sub> = 2 × V <sub>CC</sub>	Figures 1, 3
		2.5 ± 0.2	1.5		8.0	1.5	8.5			
		3.3 ± 0.3	0.8		5.7	0.8	6.0			
		5.0 ± 0.5	0.3		4.7	0.3	5.0			
C <sub>IN</sub>	Input Capacitance	0		2.5				pF		
C <sub>OUT</sub>	Output Capacitance	5.0		4				pF		
C <sub>PD</sub>	Power Dissipation Capacitance	3.3		10				pF	(Note 6)	Figure 2
		5.0		12						
<b>Note 5:</b> Parameter guaranteed by design. t <sub>OSLH</sub> =  t <sub>PLHmax</sub> - t <sub>PLHmin</sub>  ; t <sub>OSSL</sub> =  t <sub>PHLmax</sub> - t <sub>PHLmin</sub>  .										
<b>Note 6:</b> 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. (See Figure 2.) 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>CCstatic</sub> ).										

### AC Loading and Waveforms



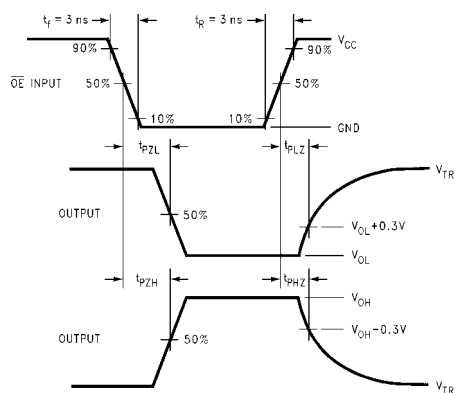
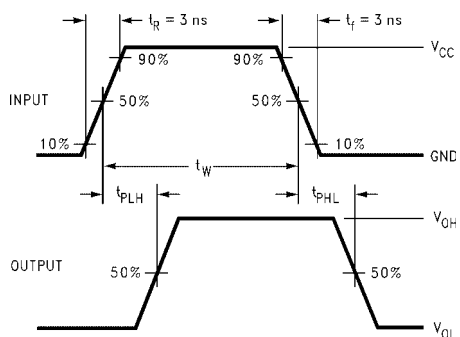
$C_L$  includes load and stray capacitance  
 Input PRR = 1.0 MHz;  $t_w = 500$  ns

**FIGURE 1. AC Test Circuit**



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

**FIGURE 2.  $I_{CCD}$  Test Circuit**



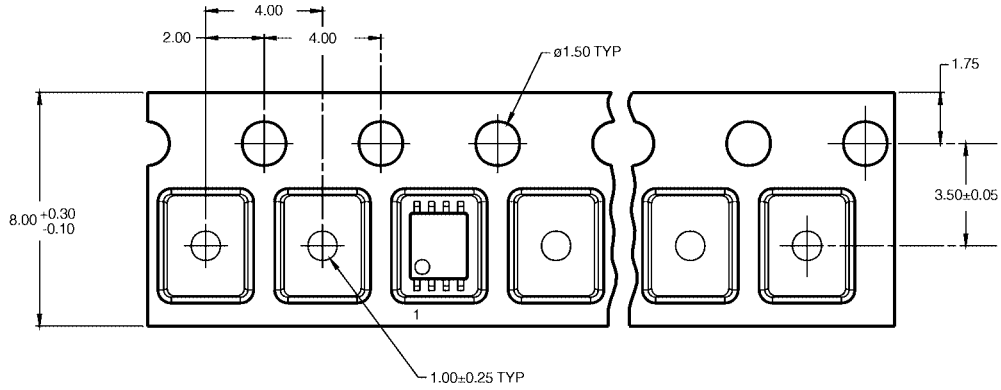
**FIGURE 3. AC Waveforms**

### Tape and Reel Specification

#### Tape Format for US8

Package Designator	Tape Section	Number Cavities	Cavity Status	Cover Tape Status
K8X	Leader (Start End)	125 (typ)	Empty	Sealed
	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (typ)	Empty	Sealed

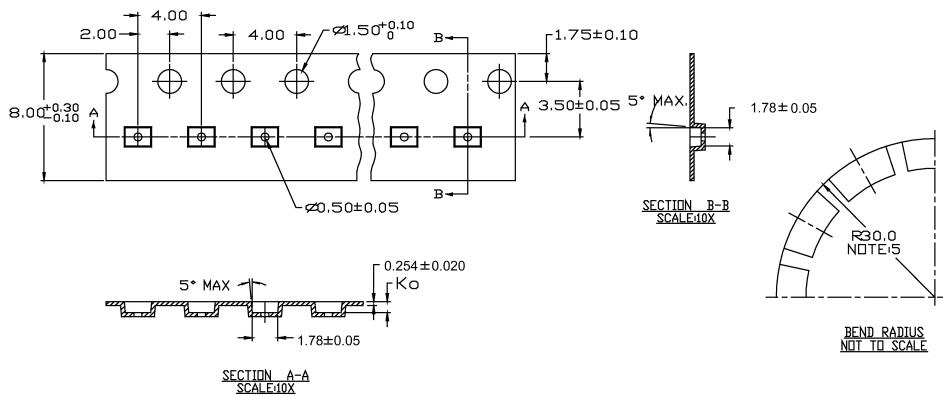
#### TAPE DIMENSIONS inches (millimeters)



#### Tape Format for MicroPak

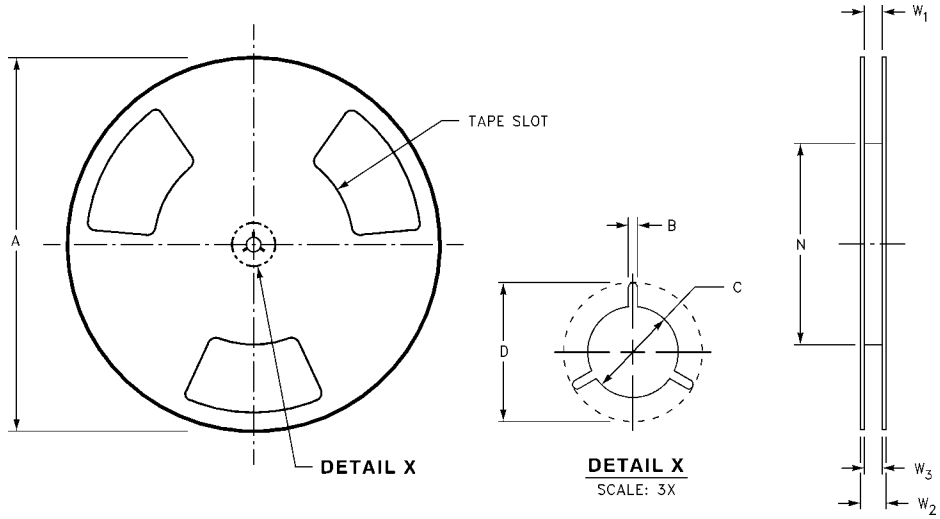
Package Designator	Tape Section	Number Cavities	Cavity Status	Cover Tape Status
L8X	Leader (Start End)	125 (typ)	Empty	Sealed
	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (typ)	Empty	Sealed

#### TAPE DIMENSIONS inches (millimeters)



**Tape and Reel Specification** (Continued)

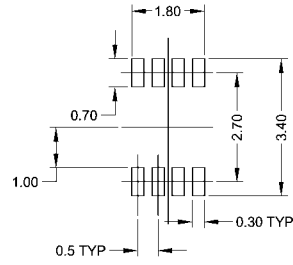
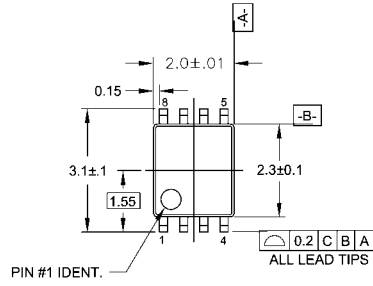
REEL DIMENSIONS inches (millimeters)



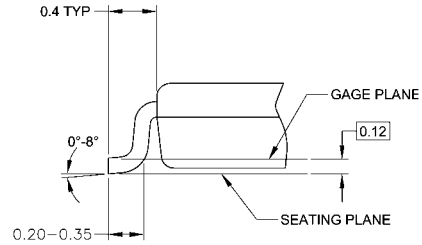
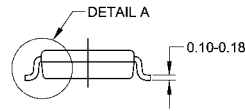
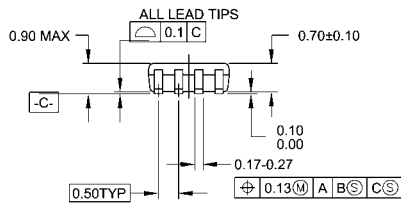
Tape Size	A	B	C	D	N	W1	W2	W3
8 mm	7.0 (177.8)	0.059 (1.50)	0.512 (13.00)	0.795 (20.20)	2.165 (55.00)	0.331 + 0.059/-0.000 (8.40 + 1.50/-0.00)	0.567 (14.40)	W1 + 0.078/-0.039 (W1 + 2.00/-1.00)



**Physical Dimensions** inches (millimeters) unless otherwise noted



**LAND PATTERN RECOMMENDATION**



**DETAIL A**

**NOTES:**

- A. CONFORMS TO JEDEC REGISTRATION MO-187
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

MAB08AREVC

**8-Lead US8, JEDEC MO-187, Variation CA 3.1mm Wide  
Package Number MAB08A**

**Physical Dimensions** inches (millimeters) unless otherwise noted (Continued)



**Notes:**

1. PACKAGE CONFORMS TO JEDEC MO-255 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y.14M-1994
4. PIN 1 FLAG, END OF PACKAGE OFFSET.

MAC08AREVC

**Pb-Free 8-Lead MicroPak, 1.6 mm Wide  
Package Number MAC08A**

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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