

Description

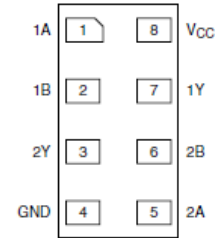
The Advanced Ultra Low Power (AUP) CMOS logic family is designed for low power and extended battery life in portable applications.

The 74AUP2G08 is a dual two input AND gate. Both gates have push-pull outputs designed for operation over a power supply range of 0.8V to 3.6V. The device is fully specified for partial power down applications using I_{OFF}. The I_{OFF} circuitry disables the output preventing damaging current backflow when the device is powered down. Each gate performs the positive Boolean function:

$$Y = A \cdot B \text{ or } Y = \overline{\overline{A + B}}$$

Pin Assignments

(Top View)



X2-DFN1210-8

Features

- Advanced Ultra Low Power (AUP) CMOS
- Supply Voltage Range from 0.8V to 3.6V
- ±4mA Output Drive at 3.0V
- Low Static Power Consumption
I_{CC} < 0.9µA
- Low Dynamic Power Consumption
C_{PD} = 6 pF (Typical at 3.6V)
- Schmitt Trigger Action at all inputs makes the circuit tolerant for slower input rise and fall time. The hysteresis is typically 250 mV at V_{CC} = 3.0V
- I_{OFF} Supports Partial-Power-Down Mode Operation
- ESD Protection Exceeds JESD 22
2000-V Human Body Model (A114)
Exceeds 1000-V Charged Device Model (C101)
- Latch-Up Exceeds 100mA per JESD 78, Class I
- Leadless Packages Named per JESD30E
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

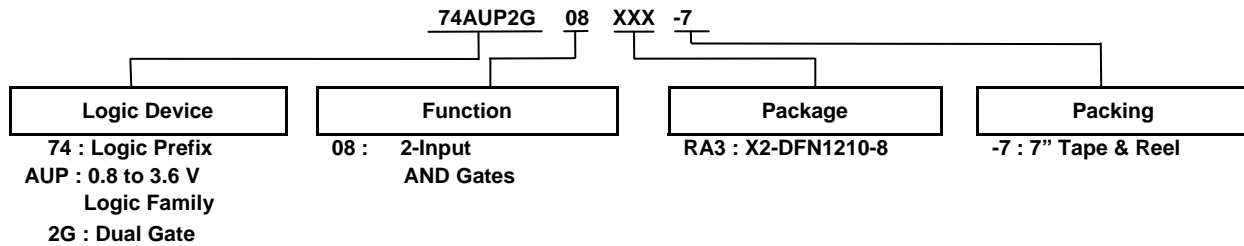
Applications

- Suited for Battery and Low Power Needs
- Wide Array of Products Such as:
 - Tablets, E-readers
 - Cell Phones, Personal Navigation/GPS
 - MP3 Players, Cameras, Video Recorders
 - PCs, Ultrabooks, Notebooks, Netbooks
 - Computer Peripherals, Hard Drives, SSD, CD/DVD ROM
 - TV, DVD, DVR, Set-Top Box

Notes:

1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
2. See http://www.diodes.com/quality/lead_free.html for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Ordering Information



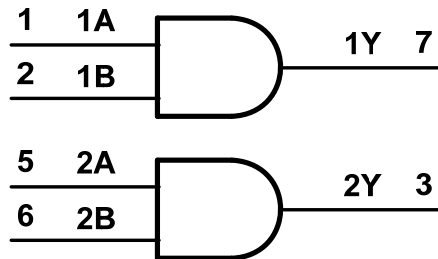
| Device | Package Code | Package (Notes 4 & 5) | Package Size | 7" Tape and Reel | |
|----------------|--------------|-----------------------|---|-------------------|--------------------|
| | | | | Quantity | Part Number Suffix |
| 74AUP2G08RA3-7 | RA3 | X2-DFN1210-8 | 1.2mm X 1.0mm X 0.35mm 0.3 mm lead pitch | 5,000/Tape & Reel | -7 |

Notes: 4. Pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
5. The taping orientation is located on our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Pin Descriptions

| Pin Name | Pin | Function |
|-----------------|-----|----------------|
| 1A | 1 | Data Input |
| 1B | 2 | Data Input |
| 2Y | 3 | Data Output |
| GND | 4 | Ground |
| 2A | 5 | Data Input |
| 2B | 6 | Data Input |
| 1Y | 7 | Data Output |
| V _{CC} | 8 | Supply Voltage |

Logic Diagram



Function Table

| Inputs | | Output |
|--------|---|--------|
| A | B | Y |
| L | L | L |
| L | H | L |
| H | L | L |
| H | H | H |

Absolute Maximum Ratings (Note 6 & 7)

| Symbol | Description | Rating | Unit |
|------------------|--|------------------------------|------|
| ESD HBM | Human Body Model ESD Protection | 2 | kV |
| ESD CDM | Charged Device Model ESD Protection | 1 | kV |
| ESD MM | Machine Model ESD Protection | 200 | V |
| V _{CC} | Supply Voltage Range | -0.5 to +4.6 | V |
| V _I | Input Voltage Range | -0.5 to +4.6 | V |
| V _O | Voltage Applied to Output in High or Low State | -0.5 to V _{CC} +0.5 | V |
| I _{IK} | Input Clamp Current V _I <0 | 50 | mA |
| I _{OK} | Output Clamp Current (V _O < 0) | 50 | mA |
| I _O | Continuous Output Current (V _O = 0 to V _{CC}) | ±20 | mA |
| I _{CC} | Continuous Current Through V _{CC} | 50 | mA |
| I _{GND} | Continuous Current Through GND | -50 | mA |
| T _J | Operating Junction Temperature | -40 to +150 | °C |
| T _{STG} | Storage Temperature | -65 to +150 | °C |

- Notes:
6. Stresses beyond the absolute maximum may result in immediate failure or reduced reliability. These are stress values and device operation should be within recommend values.
 7. Forcing the maximum allowed voltage could cause a condition exceeding the maximum current or conversely forcing the maximum current could cause a condition exceeding the maximum voltage. The ratings of both current and voltage must be maintained within the controlled range.

Recommended Operating Conditions (Note 8)

| Symbol | Parameter | Min | Max | Unit | |
|-----------------|------------------------------------|-------------------------|-----------------|------|----|
| V _{CC} | Operating Voltage | 0.8 | 3.6 | V | |
| V _I | Input Voltage | 0 | 3.6 | V | |
| V _O | Output Voltage | 0 | V _{CC} | V | |
| I _{OH} | High-Level Output Current | V _{CC} = 0.8V | — | -20 | μA |
| | | V _{CC} = 1.1V | — | -1.1 | mA |
| | | V _{CC} = 1.4V | — | -1.7 | |
| | | V _{CC} = 1.65V | — | -1.9 | |
| | | V _{CC} = 2.3V | — | -3.1 | |
| | | V _{CC} = 3.0V | — | -4 | |
| I _{OL} | Low-Level Output Current | V _{CC} = 0.8V | — | 20 | μA |
| | | V _{CC} = 1.1V | — | 1.1 | mA |
| | | V _{CC} = 1.4V | — | 1.7 | |
| | | V _{CC} = 1.65V | — | 1.9 | |
| | | V _{CC} = 2.3V | — | 3.1 | |
| | | V _{CC} = 3.0V | — | 4 | |
| Δt/ΔV | Input Transition Rise or Fall Rate | — | 200 | ns/V | |
| T _A | Operating Free-Air Temperature | -40 | +125 | °C | |

- Note: 8. Unused inputs should be held at V_{CC} or Ground.

Electrical Characteristics

| Symbol | Parameter | Test Conditions | V _{CC} | T _A = +25°C | | T _A = -40°C to +85°C | | Unit |
|-------------------|----------------------------------|---|-----------------|------------------------|------------------------|---------------------------------|------------------------|------|
| | | | | Min | Max | Min | Max | |
| V _{IH} | High-Level Input Voltage | — | 0.8V to 1.65V | 0.80 X V _{CC} | — | 0.80 X V _{CC} | — | V |
| | | — | 1.65V to 1.95V | 0.65 X V _{CC} | — | 0.65 X V _{CC} | — | |
| | | — | 2.3V to 2.7V | 1.6 | — | 1.6 | — | |
| | | — | 3.0V to 3.6V | 2.0 | — | 2.0 | — | |
| V _{IL} | Low-Level Input Voltage | — | 0.8V to 1.65V | — | 0.30 X V _{CC} | — | 0.30 X V _{CC} | V |
| | | — | 1.65V to 1.95V | — | 0.35 X V _{CC} | — | 0.35 X V _{CC} | |
| | | — | 2.3V to 2.7V | — | 0.7 | — | 0.7 | |
| | | — | 3.0V to 3.6V | — | 0.9 | — | 0.9 | |
| V _{OH} | High-Level Output Voltage | I _{OH} = -20μA | 0.8V to 3.6V | V _{CC} - 0.1 | — | V _{CC} - 0.1 | — | V |
| | | I _{OH} = -1.1mA | 1.1V | 0.75 X V _{CC} | — | 0.7 X V _{CC} | — | |
| | | I _{OH} = -1.7mA | 1.4V | 1.11 | — | 1.03 | — | |
| | | I _{OH} = -1.9mA | 1.65V | 1.32 | — | 1.3 | — | |
| | | I _{OH} = -2.3mA | 2.3V | 2.05 | — | 1.97 | — | |
| | | I _{OH} = -3.1mA | | 1.9 | — | 1.85 | — | |
| | | I _{OH} = -2.7mA | 3V | 2.72 | — | 2.67 | — | |
| | | I _{OH} = -4mA | | 2.6 | — | 2.55 | — | |
| V _{OL} | Low-Level Input Voltage | I _{OL} = 20μA | 0.8V to 3.6V | — | 0.1 | — | 0.1 | V |
| | | I _{OL} = 1.1mA | 1.1V | — | 0.3 X V _{CC} | — | 0.3 X V _{CC} | |
| | | I _{OL} = 1.7mA | 1.4V | — | 0.31 | — | 0.37 | |
| | | I _{OL} = 1.9mA | 1.65V | — | 0.31 | — | 0.35 | |
| | | I _{OL} = 2.3mA | 2.3V | — | 0.31 | — | 0.33 | |
| | | I _{OL} = 3.1mA | | — | 0.44 | — | 0.45 | |
| | | I _{OL} = 2.7mA | 3V | — | 0.31 | — | 0.33 | |
| | | I _{OL} = 4mA | | — | 0.44 | — | 0.45 | |
| I _I | Input Current | A or B Input V _I = GND to 3.6V | 0V to 3.6V | — | ± 0.1 | — | ± 0.5 | μA |
| I _{OFF} | Power Down Leakage Current | V _I or V _O = 0V to 3.6V | 0V | — | ± 0.2 | — | ± 0.6 | μA |
| ΔI _{OFF} | Delta Power Down Leakage Current | V _I or V _O = 0V to 3.6V | 0V to 0.2V | — | ± 0.2 | — | ± 0.6 | μA |
| I _{CC} | Supply Current | V _I = GND or V _{CC} , I _O = 0 | 0.8V to 3.6V | — | 0.5 | — | 0.9 | μA |
| ΔI _{CC} | Additional Supply Current | One Input at V _{CC} - 0.6V Other Inputs at V _{CC} or GND | 3.3V | — | 40 | — | 50 | μA |

Electrical Characteristics (cont.)

| Symbol | Parameter | Test Conditions | V _{CC} | T _A = -40°C to +125°C | | Unit |
|-------------------|----------------------------------|--|-----------------|----------------------------------|------------------------|------|
| | | | | Min | Max | |
| V _{IH} | High-Level Input Voltage | — | 0.8V to 1.65V | 0.80 X V _{CC} | — | V |
| | | — | 1.65V to 1.95V | 0.70 X V _{CC} | — | |
| | | — | 2.3V to 2.7V | 1.6 | — | |
| | | — | 3.0V to 3.6V | 2.0 | — | |
| V _{IL} | Low-Level Input Voltage | — | 0.8V to 1.65V | — | 0.25 X V _{CC} | V |
| | | — | 1.65V to 1.95V | — | 0.30 X V _{CC} | |
| | | — | 2.3V to 2.7V | — | 0.7 | |
| | | — | 3.0V to 3.6V | — | 0.9 | |
| V _{OH} | High-Level Output Voltage | I _{OH} = -20μA | 0.8V to 3.6V | V _{CC} - 0.11 | — | V |
| | | I _{OH} = -1.1mA | 1.1V | 0.6 X V _{CC} | — | |
| | | I _{OH} = -1.7mA | 1.4V | 0.93 | — | |
| | | I _{OH} = -1.9mA | 1.65V | 1.17 | — | |
| | | I _{OH} = -2.3mA | 2.3V | 1.77 | — | |
| | | I _{OH} = -3.1mA | | 1.67 | — | |
| | | I _{OH} = -2.7mA | 3V | 2.40 | — | |
| | | I _{OH} = -4mA | | 2.30 | — | |
| V _{OL} | Low-Level Input Voltage | I _{OL} = 20μA | 0.8V to 3.6V | — | 0.11 | V |
| | | I _{OL} = 1.1mA | 1.1V | — | 0.33 X V _{CC} | |
| | | I _{OL} = 1.7mA | 1.4V | — | 0.41 | |
| | | I _{OL} = 1.9mA | 1.65V | — | 0.39 | |
| | | I _{OL} = 2.3mA | 2.3V | — | 0.36 | |
| | | I _{OL} = 3.1mA | | — | 0.50 | |
| | | I _{OL} = 2.7mA | 3V | — | 0.36 | |
| | | I _{OL} = 4mA | | — | 0.50 | |
| I _I | Input Current | A or B Input, V _I = GND to 3.6V | 0V to 3.6V | — | ± 0.75 | μA |
| I _{OFF} | Power Down Leakage Current | V _I or V _O = 0V to 3.6V | 0V | — | ± 1.0 | μA |
| ΔI _{OFF} | Delta Power Down Leakage Current | V _I or V _O = 0V to 3.6V | 0V to 0.2V | — | ± 2.5 | μA |
| I _{CC} | Supply Current | V _I = GND or V _{CC} , I _O = 0 | 0.8V to 3.6V | — | 3.0 | μA |
| ΔI _{CC} | Additional Supply Current | Input at V _{CC} - 0.6V Other Inputs at V _{CC} or GND | 3.3V | — | 75 | μA |

Operating and Package Characteristics (@T_A = +25°C, unless otherwise specified.)

| Parameter | | Test Conditions | | V _{CC} | Typ | Unit |
|-----------------|--|---|----------|-----------------|------|------|
| C _{pd} | Power Dissipation Capacitance | f = 1MHz No Load | | 0.8V | 5.1 | pF |
| | | | | 1.2V ± 0.1V | 5.2 | |
| | | | | 1.5V ± 0.1V | 5.2 | |
| | | | | 1.8V ± 0.15V | 5.5 | |
| | | | | 2.5V ± 0.2V | 5.7 | |
| | | | | 3.3V ± 0.3V | 6.0 | |
| C _i | Input Capacitance | V _I = V _{CC} or GND | | 0V or 3.3V | 2.0 | pF |
| θ _{JA} | Thermal Resistance Junction-to-Ambient | X2-DFN1210-8 | (Note 9) | — | +395 | °C/W |
| θ _{JC} | Thermal Resistance Junction-to-Case | X2-DFN1210-8 | (Note 9) | — | +236 | °C/W |

Note: 9. Test condition, X2-DFN1210-8 device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

Switching Characteristics

 $C_L = 5\text{pF}$, See Figure 1

| Parameter | From Input | To Output | Vcc | T _A = +25°C | | | T _A = -40°C to +85°C | | T _A = -40°C to +125°C | | Unit |
|-----------------|------------|-----------|--------------|------------------------|------|------|---------------------------------|------|----------------------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | Min | Max | |
| t _{pd} | A or B | Y | 0.8V | — | 19.6 | — | — | — | — | — | ns |
| | | | 1.2V ± 0.1V | 2.6 | 5.1 | 11.9 | 2.1 | 12.9 | 2.1 | 14.2 | |
| | | | 1.5V ± 0.1V | 1.6 | 3.7 | 6.5 | 1.5 | 7.5 | 1.5 | 8.3 | |
| | | | 1.8V ± 0.15V | 1.3 | 3.0 | 5.2 | 1.3 | 6.1 | 1.3 | 6.7 | |
| | | | 2.5V ± 0.2V | 1.1 | 2.4 | 4.0 | 1.0 | 4.8 | 1.0 | 5.3 | |
| | | | 3.3V ± 0.3V | 1.0 | 2.2 | 3.5 | 0.9 | 4.3 | 0.9 | 4.8 | |

 $C_L = 10\text{pF}$, See Figure 1

| Parameter | From Input | To Output | Vcc | T _A = +25°C | | | T _A = -40°C to +85°C | | T _A = -40°C to +125°C | | Unit |
|-----------------|------------|-----------|--------------|------------------------|------|------|---------------------------------|------|----------------------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | Min | Max | |
| t _{pd} | A or B | Y | 0.8V | — | 23.7 | — | — | — | — | — | ns |
| | | | 1.2V ± 0.1V | 2.4 | 6.0 | 13.8 | 2.2 | 15.0 | 2.2 | 16.5 | |
| | | | 1.5V ± 0.1V | 2.0 | 4.3 | 7.6 | 1.8 | 8.9 | 1.8 | 9.8 | |
| | | | 1.8V ± 0.15V | 1.7 | 3.6 | 6.1 | 1.6 | 7.2 | 1.6 | 7.9 | |
| | | | 2.5V ± 0.2V | 1.4 | 2.9 | 4.8 | 1.3 | 5.7 | 1.3 | 6.3 | |
| | | | 3.3V ± 0.3V | 1.3 | 2.7 | 4.2 | 1.2 | 4.7 | 1.2 | 5.2 | |

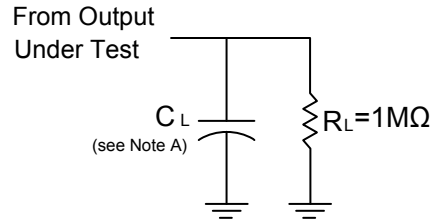
 $C_L = 15\text{pF}$, See Figure 1

| Parameter | From Input | To Output | Vcc | T _A = +25°C | | | T _A = -40°C to +85°C | | T _A = -40°C to +125°C | | Unit |
|-----------------|------------|-----------|--------------|------------------------|------|------|---------------------------------|------|----------------------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | Min | Max | |
| t _{pd} | A or B | Y | 0.8V | — | 27.7 | — | — | — | — | — | ns |
| | | | 1.2V ± 0.1V | 3.4 | 6.8 | 15.6 | 3.1 | 19.3 | 3.1 | 19.5 | |
| | | | 1.5V ± 0.1V | 2.3 | 4.9 | 8.6 | 2.1 | 10.1 | 2.1 | 11.2 | |
| | | | 1.8V ± 0.15V | 1.9 | 4.0 | 6.9 | 1.8 | 8.2 | 1.8 | 9.0 | |
| | | | 2.5V ± 0.2V | 1.7 | 3.4 | 5.5 | 1.6 | 6.5 | 1.6 | 7.2 | |
| | | | 3.3V ± 0.3V | 1.4 | 3.1 | 4.8 | 1.4 | 5.9 | 1.4 | 6.5 | |

 $C_L = 30\text{pF}$, See Figure 1

| Parameter | From Input | To Output | Vcc | T _A = +25°C | | | T _A = -40°C to +85°C | | T _A = -40°C to +125°C | | Unit |
|-----------------|------------|-----------|--------------|------------------------|------|------|---------------------------------|------|----------------------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | Min | Max | |
| t _{pd} | A or B | Y | 0.8V | — | 39.6 | — | — | — | — | — | ns |
| | | | 1.2V ± 0.1V | 4.6 | 9.1 | 21.3 | 4.1 | 26.8 | 4.1 | 27.0 | |
| | | | 1.5V ± 0.1V | 3.4 | 6.4 | 11.5 | 2.9 | 13.6 | 2.9 | 15.0 | |
| | | | 1.8V ± 0.15V | 2.6 | 5.3 | 9.1 | 2.4 | 10.9 | 2.4 | 12.1 | |
| | | | 2.5V ± 0.2V | 2.3 | 4.5 | 7.2 | 2.2 | 8.6 | 2.2 | 9.5 | |
| | | | 3.3V ± 0.3V | 1.9 | 4.2 | 6.2 | 1.8 | 7.5 | 1.8 | 8.3 | |

Parameter Measurement Information



| V_{CC} | Inputs | | V_M | C_L |
|------------------|----------|------------|------------|-----------------|
| | V_I | t_r/t_f | | |
| 0.8V | V_{CC} | $\leq 3ns$ | $V_{CC}/2$ | 5, 10, 15, 30pF |
| $1.2V \pm 0.1V$ | V_{CC} | $\leq 3ns$ | $V_{CC}/2$ | 5, 10, 15, 30pF |
| $1.5V \pm 0.1V$ | V_{CC} | $\leq 3ns$ | $V_{CC}/2$ | 5, 10, 15, 30pF |
| $1.8V \pm 0.15V$ | V_{CC} | $\leq 3ns$ | $V_{CC}/2$ | 5, 10, 15, 30pF |
| $2.5V \pm 0.2V$ | V_{CC} | $\leq 3ns$ | $V_{CC}/2$ | 5, 10, 15, 30pF |
| $3.3V \pm 0.3V$ | V_{CC} | $\leq 3ns$ | $V_{CC}/2$ | 5, 10, 15, 30pF |

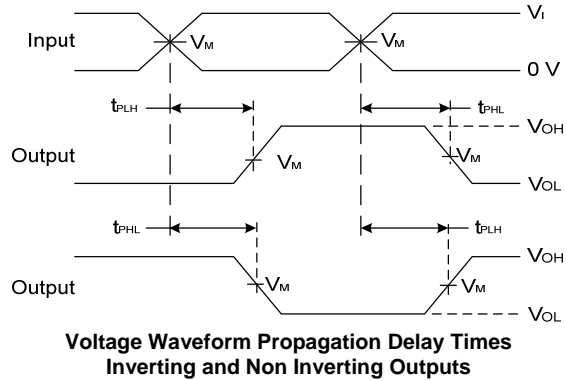
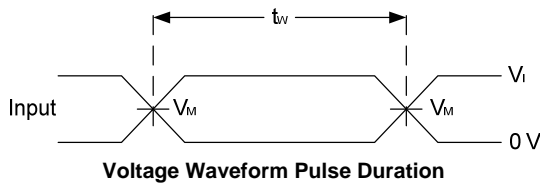


Figure 1 Load Circuit and Voltage Waveforms

- Notes:
- A. Includes test lead and test apparatus capacitance.
 - B. All pulses are supplied at pulse repetition rate ≤ 10 MHz.
 - C. Inputs are measured separately one transition per measurement.
 - D. t_{PLH} and t_{PHL} are the same as t_{PD} .

Marking Information

X2-DFN1210-8

(Top View)


XX : Identification Code

Y : Year : 0~9

W : week : A~Z : 1~26 week

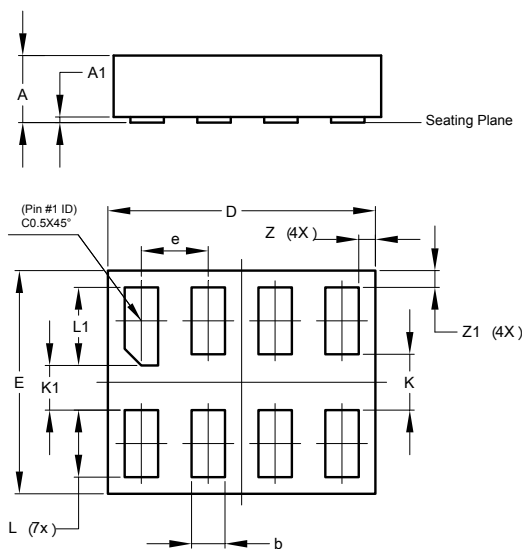
a~z : 27-52 week

z represents 52 and 53 week

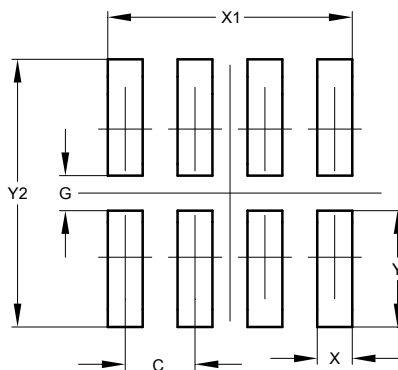
X : week : A~Z : Internal code

| Part Number | Package | Identification Code |
|----------------|--------------|---------------------|
| 74AUP2G08RA3-7 | X2-DFN1210-8 | CT |

X2-DFN1210-8 Package Outline Dimensions and Suggested Pad Layout

 Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for the latest version.


| X2-DFN1210-8 | | | |
|----------------------|-------|-------|-------|
| Dim | Min | Max | Typ |
| A | - | 0.35 | 0.30 |
| A1 | 0 | 0.03 | 0.02 |
| b | 0.10 | 0.20 | 0.15 |
| D | 1.15 | 1.25 | 1.20 |
| E | 0.95 | 1.05 | 1.00 |
| e | - | - | 0.30 |
| K | - | - | 0.25 |
| K1 | - | - | 0.20 |
| L | 0.25 | 0.35 | 0.30 |
| L1 | 0.30 | 0.40 | 0.35 |
| Z | 0.050 | 0.100 | 0.075 |
| Z1 | 0.050 | 0.100 | 0.075 |
| All Dimensions in mm | | | |



| Dimensions | Value (in mm) |
|------------|---------------|
| C | 0.300 |
| G | 0.150 |
| X | 0.150 |
| X1 | 1.050 |
| Y | 0.500 |
| Y1 | 1.150 |

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1. are intended to implant into the body, or
2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.

B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

Customers represent that they have all necessary expertise in the safety and regulatory ramifications of their life support devices or systems, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of Diodes Incorporated products in such safety-critical, life support devices or systems, notwithstanding any devices- or systems-related information or support that may be provided by Diodes Incorporated. Further, Customers must fully indemnify Diodes Incorporated and its representatives against any damages arising out of the use of Diodes Incorporated products in such safety-critical, life support devices or systems.

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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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