- Choice of Operating Speeds
 High-Speed, A Devices . . . 25 MHz Min
 Half-Power, A-2 Devices . . . 16 MHz Min
- Choice of Input/Output Configuration
- Package Options Include Both Ceramic DIP and Chip Carrier in Addition to Ceramic Flat Package

| DEVICE | I INPUTS | 3-STATE O OUTPUTS | REGISTERED Q OUTPUTS | I/O PORT S |
|---------|-------------|----------------------|-------------------------|------------------|
| PAL16L8 | 10 | 2 | 0 | 6 |
| PAL16R4 | 8 | 0 | 4 (3-state buffers) | 4 |
| PAL16R6 | 8 | 0 | 6 (3-state buffers) | 2 |
| PAL16R8 | 8 | 0 | 8 (3-state buffers) | 0 |

description

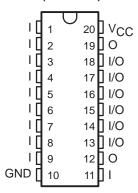
These programmable array logic devices feature high speed and a choice of either standard or half-power devices. They combine Advanced Low-Power Schottky technology with proven titanium-tungsten fuses. These devices will provide reliable, high-performance substitutes for conventional TTL logic. Their easy programmability allow for quick design of "custom" functions and typically results in a more compact circuit board. In addition, chip carriers are available for further reduction in board space.

The Half-Power versions offer a choice of operating frequency, switching speeds, and power dissipation. In many cases, these Half-Power devices can result in significant power reduction from an overall system level.

The PAL16' M series is characterized for operation over the full military temperature range of –55°C to 125°C.

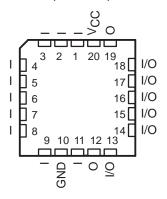
PAL16L8'
J OR W PACKAGE

(TOP VIEW)



PAL16L8' FK PACKAGE

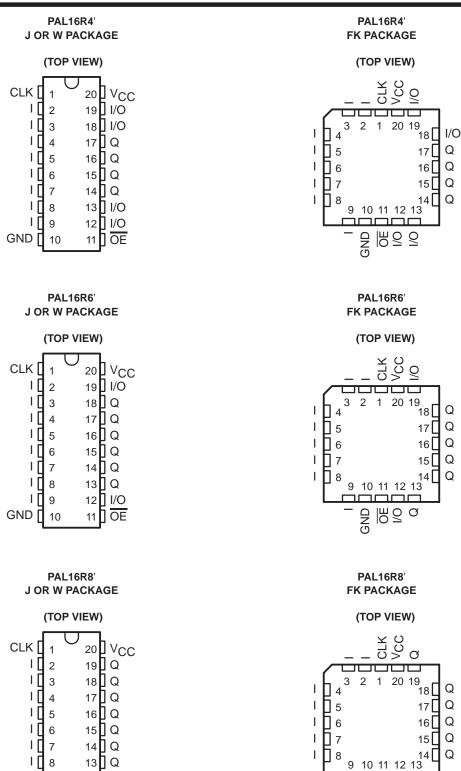
(TOP VIEW)



PAL is a registered trademark of Advanced Micro Devices Inc.

PAL16R4AM, PAL16R4A-2M, PAL16R6AM, PAL16R6A-2M, PAL16R8AM, PAL16R8A-2M STANDARD HIGH-SPEED PAL^{\circledR} CIRCUITS

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GND Q Q Q

12 Q

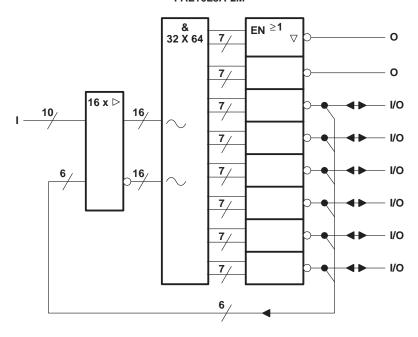
11 OE

GND [

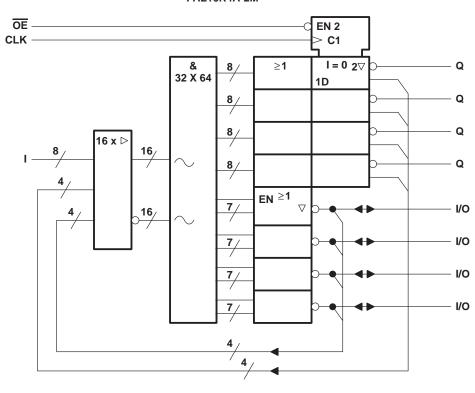
10

functional block diagrams (positive logic)

PAL16L8AM PAL16L8A-2M



PAL16R4AM PAL16R4A-2M

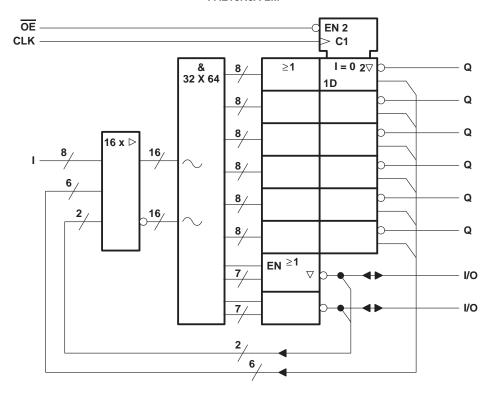


outputs denotes fused inputs

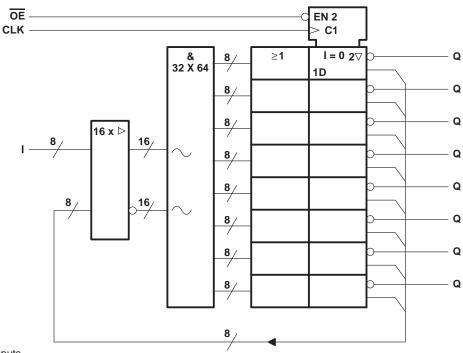


functional block diagrams (positive logic)

PAL16R6AM PAL16R6A-2M

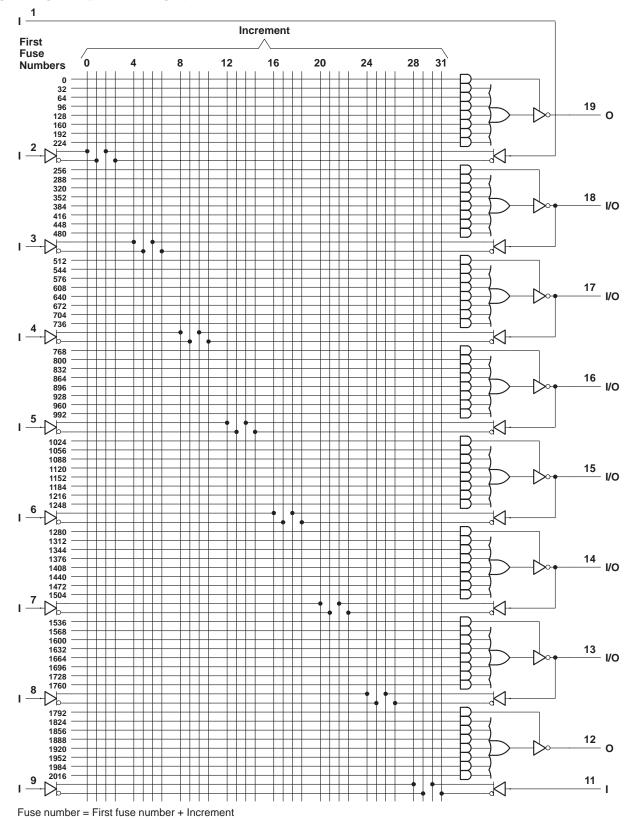


PAL16R8AM PAL16R8A-2M

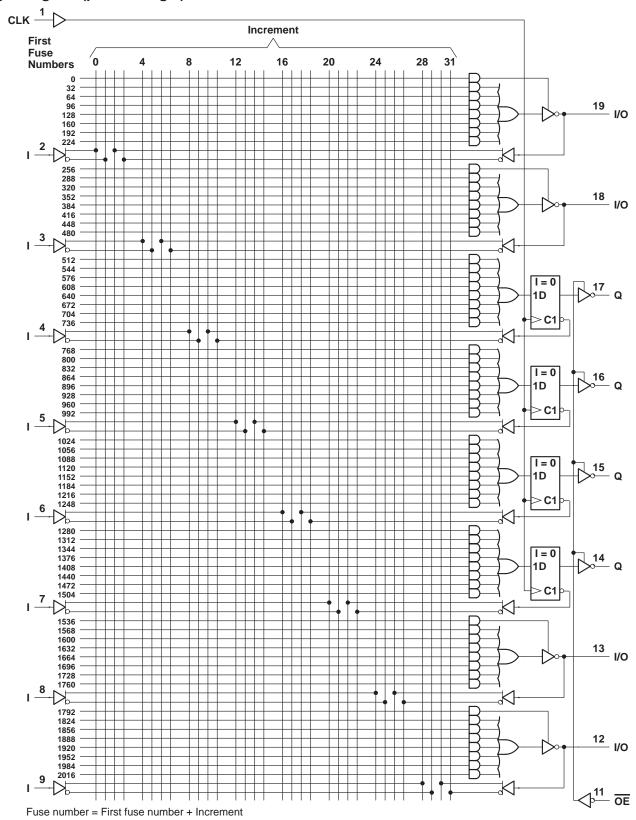


 \sim denotes fused inputs

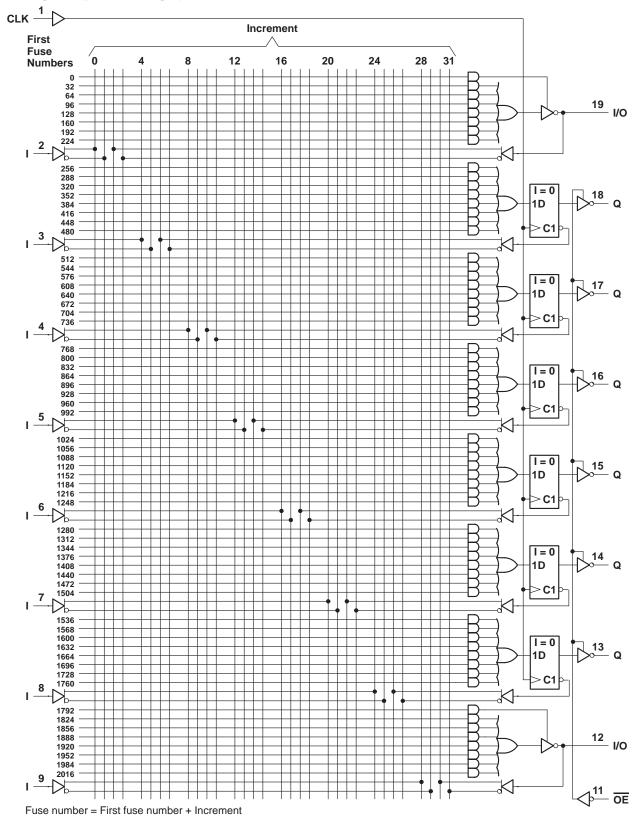


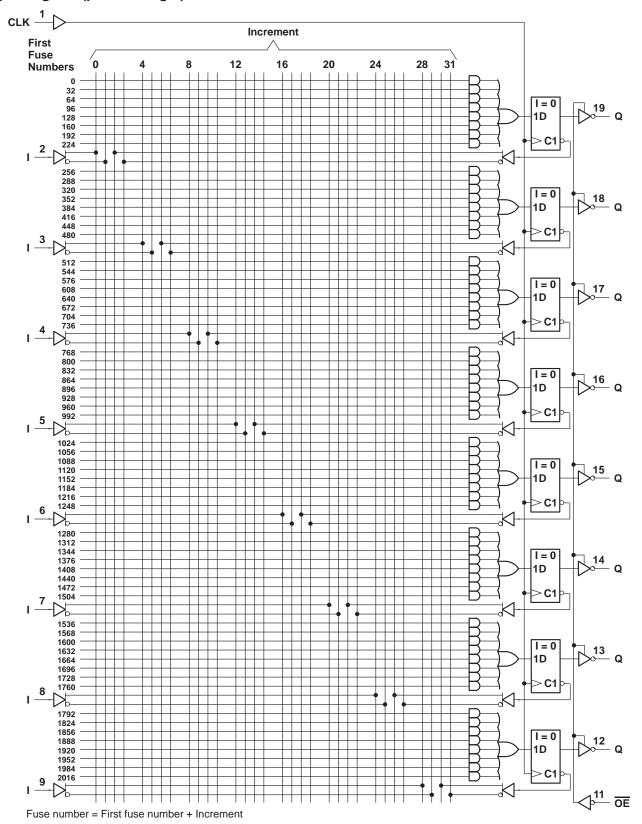














PAL16L8AM, PAL16L8A-2M, PAL16R4AM, PAL16R4A-2M PAL16R6AM, PAL16R6A-2M, PAL16R8AM, PAL16R8A-2M STANDARD HIGH-SPEED *PAL*® CIRCUITS

SRPS016 - D2705, FEBRUARY 1984 - REVISED MARCH 1992

programming information

Texas Instruments programmable logic devices can be programmed using widely available software and inexpensive device programmers.

Complete programming specifications, algorithms, and the latest information on hardware, software, and firmware are available upon request. Information on programmers capable of programming Texas Instruments programmable logic is also available, upon request, from the nearest TI field sales office, local authorized TI distributor, or by calling Texas Instruments at (214) 997-5666.

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)

| Supply voltage, V _{CC} (see Note 1) | | . 7 V |
|---|----------|-------|
| Input voltage (see Note 1) | | 5.5 V |
| Voltage applied to disabled output (see Note 1) | | 5.5 V |
| Operating free-air temperature range | −55°C to | 125°C |
| Storage temperature range | -65°C to | 150°C |

NOTE 1: These ratings apply except for programming pins during a programming cycle.

recommended operating conditions

| | | MIN | NOM | MAX | UNIT |
|-----|--------------------------------|-----|-----|-----|------|
| VCC | Supply voltage | 4.5 | 5 | 5.5 | V |
| VIH | High-level input voltage | 2 | | 5.5 | V |
| VIL | Low-level input voltage | | | 0.8 | V |
| ЮН | High-level output current | | | -2 | mA |
| lOL | Low-level output current | | | 12 | mA |
| TA | Operating free-air temperature | -55 | 25 | 125 | °C |

PAL16L8AM, PAL16R4AM, PAL16R6AM, PAL16R8AM STANDARD HIGH-SPEED PAL^{\circledR} CIRCUITS

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electrical characteristics over recommended operating free-air temperature range

| PAR | RAMETER | | TEST CONDITIONS | 3 | MIN | TYP [†] | MAX | UNIT |
|----------------|------------|---------------------------|--------------------------|--------------|-----|------------------|------|------|
| ٧ıK | | V _{CC} = 4.5 V, | $I_{I} = -18 \text{ mA}$ | | | | -1.5 | V |
| Vон | | $V_{CC} = 4.5 \text{ V},$ | $I_{OH} = -2 \text{ mA}$ | | 2.4 | 3.2 | | V |
| VOL | | $V_{CC} = 4.5 \text{ V},$ | $I_{OL} = 12 \text{ mA}$ | | | 0.25 | 0.4 | V |
| 1 | Outputs | \/ | V- 27V | | | | 20 | ^ |
| lozh | I/O ports | $V_{CC} = 5.5 V,$ | $V_0 = 2.7 \text{ V}$ | | | | 100 | μΑ |
| lo-u | Outputs | V 55V | V 0.4V | | | | -20 | ^ |
| lozL | I/O ports | $V_{CC} = 5.5 V,$ | $V_0 = 0.4 V$ | | | | -100 | μΑ |
| l _l | | V _{CC} = 5.5 V, | V _I = 5.5 V | | | | 0.2 | mA |
| I | I/O Ports | V 55V | V: 0.7.V | | | | 100 | ^ |
| lΗ | All others | $V_{CC} = 5.5 V,$ | V _I = 2.7 V | | | | 25 | μΑ |
| | OE input | \/ | V 0.4V | | | | -0.2 | A |
| Iμ | All others | $V_{CC} = 5.5 V,$ | $V_{ } = 0.4 V$ | | | | -0.1 | mA |
| los‡ | | V _{CC} = 5.5 V, | V _O = 0.5 V | • | -30 | | -250 | mA |
| Icc | | V _{CC} = 5.5 V, | V _I = 0, | Outputs open | | 75 | 180 | mA |

timing requirements

| | | | MIN | MAX | UNIT |
|-----------------|---|------------|-----|-----|------|
| fclock | Clock Frequency | | 0 | 25 | MHz |
| t | Dulas duration (see Nate 2) | Clock high | 15 | | |
| τ _W | Pulse duration (see Note 2) | 20 | | ns | |
| t _{su} | Setup time, input or feedback before CLK↑ | | 25 | | ns |
| t _h | Hold time, input or feedback after CLK↑ | | 0 | | ns |

NOTE 2: The total clock period of clock high and clock low must not exceed clock frequency, f_{clock}. The minimum pulse durations specified are only for clock high or low, but not for both simultaneously.

switching characteristics over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

| PARAMETER | FROM | ТО | TEST CONDITION | MIN | TYPT | MAX | UNIT |
|------------------|---------|----------|---------------------|-----|------|----------|------|
| .,, | (INPUT) | (OUTPUT) | 1201 00112111011 | | | 1117 151 | 0 |
| f _{max} | | | | 25 | 45 | | MHz |
| ^t pd | I, I/O | O, I/O | | | 15 | 30 | ns |
| ^t pd | CLK↑ | Q | R1 = 390 Ω , | | 10 | 20 | ns |
| t _{en} | OE↓ | Q | R2 = 750 Ω , | | 15 | 25 | ns |
| ^t dis | OE↑ | Q | See Figure 1 | | 10 | 25 | ns |
| t _{en} | I, I/O | O, I/O | | | 14 | 30 | ns |
| ^t dis | I, I/O | O, I/O | | | 13 | 30 | ns |

[†] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.



[‡] Not more than one output should be shorted at a time and the duration of the short circuit should not exceed one second. Set V_O at 0.5 V to avoid test equipment degradation.

electrical characteristics over recommended operating free-air temperature range

| PAR | RAMETER | | TEST CONDITION | s | MIN | TYP [†] | MAX | UNIT |
|------------------|------------|---------------------------|--------------------------|--------------|-----|------------------|------|------|
| VIK | | $V_{CC} = 4.5 \text{ V},$ | $I_{I} = -18 \text{ mA}$ | | | | -1.5 | V |
| Vон | | $V_{CC} = 4.5 \text{ V},$ | $I_{OH} = -2 \text{ mA}$ | | 2.4 | 3.2 | | V |
| VOL | | $V_{CC} = 4.5 \text{ V},$ | $I_{OL} = 12 \text{ mA}$ | | | 0.25 | 0.4 | V |
| 1 | Outputs | V | V 2.7.V | | | | 20 | |
| lozh | I/O ports | $V_{CC} = 5.5 V,$ | $V_O = 2.7 \text{ V}$ | | | | 100 | μΑ |
| lozi | Outputs | V 55V | V- 04V | | | | -20 | |
| lozL | I/O ports | $V_{CC} = 5.5 \text{ V},$ | $V_O = 0.4 V$ | | | | -100 | μΑ |
| lį | | $V_{CC} = 5.5 V$, | V _I = 5.5 V | | | | 0.2 | mA |
| 1 | I/O Ports | V 55V | \/. 27\/ | | | | 100 | ^ |
| lН | All others | $V_{CC} = 5.5 \text{ V},$ | V _I = 2.7 V | | | | 25 | μΑ |
| | OE input | \\ | V 0.4V | | | | -0.2 | A |
| llΓ | All others | $V_{CC} = 5.5 \text{ V},$ | V _I = 0.4 V | | | | -0.1 | mA |
| los [‡] | | V _{CC} = 5.5 V, | V _O = 0.5 V | • | -30 | | -250 | mA |
| Icc | · | $V_{CC} = 5.5 V$, | $V_{I} = 0$, | Outputs open | | 75 | 90 | mA |

timing requirements

| | | | MIN | MAX | UNIT |
|-----------------|---|------------|-----|-----|------|
| fclock | Clock Frequency | | 0 | 16 | MHz |
| t | Dulas direction (see Note 0) | Clock high | 25 | | |
| ι _W | Pulse duration (see Note 2) | 25 | | ns | |
| t _{su} | Setup time, input or feedback before CLK↑ | - | 35 | | ns |
| th | Hold time, input or feedback after CLK↑ | | 0 | | ns |

NOTE 2: The total clock period of clock high and clock low must not exceed clock frequency, f_{clock}. The minimum pulse durations specified are only for clock high or low, but not for both simultaneously.

switching characteristics over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

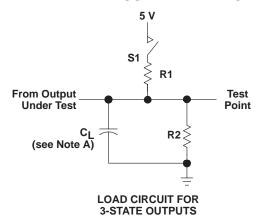
| PARAMETER | FROM | ТО | TEST CONDITION | MINI | TYPT | MAX | UNIT |
|------------------|---------|----------|---------------------|------|------|-----|------|
| PARAMETER | (INPUT) | (OUTPUT) | TEST CONDITION | MIN | ITPI | WAX | UNIT |
| f _{max} | | | | 16 | 25 | | MHz |
| ^t pd | I, I/O | O, I/O | | | 25 | 40 | ns |
| ^t pd | CLK↑ | Q | R1 = 390 Ω , | | 11 | 25 | ns |
| t _{en} | OE↓ | Q | R2 = 750 Ω , | | 20 | 25 | ns |
| ^t dis | OE↑ | Q | See Figure 1 | | 11 | 25 | ns |
| t _{en} | I, I/O | O, I/O | | | 25 | 40 | ns |
| ^t dis | I, I/O | O, I/O | | | 25 | 35 | ns |

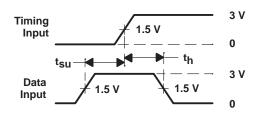
[†] All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

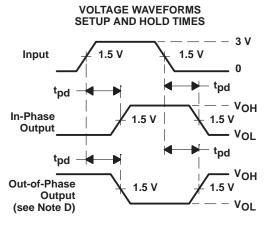


[‡] Not more than one output should be shorted at a time and the duration of the short circuit should not exceed one second. Set V_O at 0.5 V to avoid test equipment degradation.

PARAMETER MEASUREMENT INFORMATION

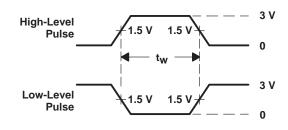


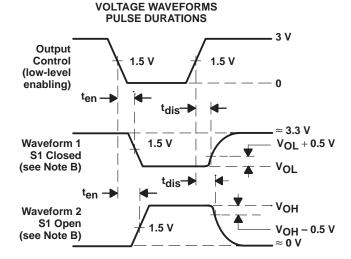




VOLTAGE WAVEFORMS

PROPAGATION DELAY TIMES





VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES, 3-STATE OUTPUTS

NOTES: A. C_L includes probe and jig capacitance and is 50 pF for t_{pd} and t_{en} , 5 pF for t_{dis} .

- B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- C. All input pulses have the following characteristics: PRR \leq 10 MHz, t_{Γ} and $t_{f} \leq$ 2 ns, duty cycle = 50%
- D. When measuring propagation delay times of 3-state outputs, switch S1 is closed.
- E. Equivalent loads may be used for testing.

Figure 1. Load Circuit and Voltage Waveforms





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PACKAGING INFORMATION

| Orderable Device | Status (1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan | Lead finish/ Ball material | MSL Peak Temp | Op Temp (°C) | Device Marking (4/5) | Samples |
|------------------|------------|--------------|--------------------|------|----------------|---------------------|-------------------------------|--------------------|--------------|---------------------------------|---------|
| 81036072A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036072A PAL16L8A MFKB | Samples |
| 8103607RA | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103607RA PAL16L8AMJB | Samples |
| 8103607SA | ACTIVE | CFP | W | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103607SA PAL16L8AMWB | Samples |
| 81036082A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036082A PAL16R8A MFKB | Samples |
| 8103608RA | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103608RA PAL16R8AMJB | Samples |
| 81036092A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036092A PAL16R6A MFKB | Samples |
| 8103609RA | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103609RA PAL16R6AMJB | Samples |
| 81036102A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036102A PAL16R4A MFKB | Samples |
| 8103610RA | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103610RA PAL16R4AMJB | Samples |
| 8103610SA | ACTIVE | CFP | W | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103610SA PAL16R4AMWB | Samples |
| 81036112A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036112A PAL16L8A- 2MFKB | Samples |
| 8103611RA | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103611RA PAL16L8A-2MJB | Samples |
| 81036142A | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036142A PAL16R4A- 2MFKB | Samples |
| PAL16L8A-2MFKB | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036112A PAL16L8A- | Samples |





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| Orderable Device | Status | Package Type | Package Drawing | Pins | Package Qty | Eco Plan | Lead finish/ Ball material | MSL Peak Temp | Op Temp (°C) | Device Marking (4/5) | Samples |
|------------------|--------|--------------|--------------------|------|----------------|---------------------|-------------------------------|--------------------|--------------|---------------------------------|---------|
| | | | | | | | | | | 2MFKB | |
| PAL16L8A-2MJ | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | PAL16L8A-2MJ | Samples |
| PAL16L8A-2MJB | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103611RA PAL16L8A-2MJB | Samples |
| PAL16L8AMFKB | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036072A PAL16L8A MFKB | Samples |
| PAL16L8AMJ | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | PAL16L8AMJ | Samples |
| PAL16L8AMJB | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103607RA PAL16L8AMJB | Samples |
| PAL16L8AMWB | ACTIVE | CFP | W | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103607SA PAL16L8AMWB | Samples |
| PAL16R4A-2MFKB | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036142A PAL16R4A- 2MFKB | Samples |
| PAL16R4A-2MJ | NRND | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | PAL16R4A-2MJ | |
| PAL16R4AMFKB | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036102A PAL16R4A MFKB | Samples |
| PAL16R4AMJ | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | PAL16R4AMJ | Samples |
| PAL16R4AMJB | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103610RA PAL16R4AMJB | Samples |
| PAL16R4AMWB | ACTIVE | CFP | W | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103610SA PAL16R4AMWB | Samples |
| PAL16R6AMFKB | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036092A PAL16R6A MFKB | Samples |
| PAL16R6AMJ | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | PAL16R6AMJ | Samples |
| PAL16R6AMJB | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103609RA PAL16R6AMJB | Samples |

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| Orderable Device | Status (1) | Package Type | Package Drawing | Pins | Package Qty | Eco Plan | Lead finish/ Ball material | MSL Peak Temp | Op Temp (°C) | Device Marking (4/5) | Samples |
|------------------|------------|--------------|--------------------|------|----------------|---------------------|-------------------------------|--------------------|--------------|-------------------------------|---------|
| PAL16R8AMFKB | ACTIVE | LCCC | FK | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 81036082A PAL16R8A MFKB | Samples |
| PAL16R8AMJ | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | PAL16R8AMJ | Samples |
| PAL16R8AMJB | ACTIVE | CDIP | J | 20 | 1 | Non-RoHS & Green | SNPB | N / A for Pkg Type | -55 to 125 | 8103608RA PAL16R8AMJB | Samples |

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead finish/Ball material Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

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PACKAGE OPTION ADDENDUM

www.ti.com 10-Jun-2022

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF PAL16L8A-2M, PAL16L8AM, PAL16R4AM, PAL16R6AM, PAL16R8AM:

• Catalog: PAL16L8A-2, PAL16L8A, PAL16R4A, PAL16R6A, PAL16R8A

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product



www.ti.com 5-Jan-2022

TUBE



*All dimensions are nominal

| Device | Package Name | Package Type | Pins | SPQ | L (mm) | W (mm) | T (µm) | B (mm) |
|----------------|--------------|--------------|------|-----|--------|--------|--------|--------|
| 81036072A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| 81036082A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| 81036092A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| 81036102A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| 81036112A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| 81036142A | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| PAL16L8A-2MFKB | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| PAL16L8AMFKB | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| PAL16R4A-2MFKB | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| PAL16R4AMFKB | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| PAL16R6AMFKB | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |
| PAL16R8AMFKB | FK | LCCC | 20 | 1 | 506.98 | 12.06 | 2030 | NA |

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



14 LEADS SHOWN



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



NOTES:

- A. All linear dimensions are in inches (millimeters).
- This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.

 D. Index point is provided on cap for terminal identification only.

 E. Falls within Mil—Std 1835 GDFP2—F20



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