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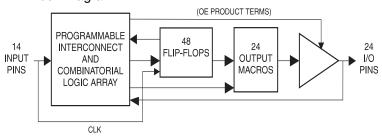
Features

- High-performance, High-density, Electrically-erasable Programmable Logic Device
- Fully Connected Logic Array with 416 Product Terms
- 15 ns Maximum Pin-to-pin Delay for 5V Operation
- 24 Flexible Output Macrocells
 - 48 Flip-flops Two per Macrocell
 - 72 Sum Terms
 - All Flip-flops, I/O Pins Feed in Independently
- D- or T-type Flip-flops
- Product Term or Direct Input Pin Clocking
- Registered or Combinatorial Internal Feedback
- Backward Compatible with ATV2500B/BQ and ATV2500H Software
- Advanced Electrically-erasable Technology
 - Reprogrammable
 - 100% Tested
- 44-lead Surface Mount Package and 40-pin DIP Package
- Flexible Design: Up to 48 Buried Flip-flops and 24 Combinatorial Outputs Simultaneously
- 8 Synchronous Product Terms
- Individual Asynchronous Reset per Macrocell
- OE Control per Macrocell
- Functionality Equivalent to ATV2500B/BQ and ATV2500H
- 2000V ESD Protection
- Security Fuse Feature to Protect the Code
- Commercial, Industrial and Military Temperature Range Offered
- 10 Year Data Retention
- Pin Keeper Option
- 200 mA Latch-up Immunity
- Green Package Options (Pb/Halide-free/RoHS Compliant) Available

1. Description

The ATF2500C is the highest-density PLD available in a 44-pin surface mount package. With its fully connected logic array and flexible macrocell structure, high gate utilization is easily obtainable. The ATF2500C is a high-performance CMOS (electrically-erasable) programmable logic device (PLD) that utilizes Atmel's proven electrically-erasable technology. This PLD is now available in a fully Green or LHF (lead and halide-free) packages.

Figure 1-1. Block Diagram





ATF2500C CPLD Family Datasheet

ATF2500C





0777K-PLD-1/24/08

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The ATF2500C is organized around a single universal array. All pins and feedback terms are always available to every macrocell. Each of the 38 logic pins are array inputs, as are the outputs of each flip-flop.

In the ATF2500C, four product terms are input to each sum term. Furthermore, each macrocell's three sum terms can be combined to provide up to 12 product terms per sum term with no performance penalty. Each flip-flop is individually selectable to be either D- or T-type, providing further logic compaction. Also, 24 of the flip-flops may be bypassed to provide internal combinatorial feedback to the logic array.

Product terms provide individual clocks and asynchronous resets for each flip-flop. The flip-flops may also be individually configured to have direct input pin clocking. Each output has its own enable product term. Eight synchronous preset product terms serve local groups of either four or eight flip-flops. Register preload functions are provided to simplify testing. All registers automatically reset upon power-up.

2. Pin Configurations

Table 2-1. Pin Configurations

Pin Name	Function		
IN	Logic Inputs		
CLK/IN	Pin Clock and Input		
I/O	Bi-directional Buffers		
I/O 0,2,4	Even I/O Buffers		
I/O 1,3,5	Odd I/O Buffers		
GND	Ground		
VCC	+5V Supply		

Figure 2-1. DIP

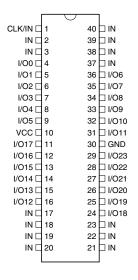
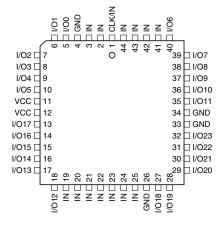


Figure 2-2. PLCC



Note: (

(PLCC package) pin 4 and pin 26 GND connections are not required, but are recommended for improved noise immunity.

3. Using the ATF2500C Family's Many Advanced Features

The ATF2500Cs advanced flexibility packs more usable gates into 44 leads than other PLDs. Some of the ATF2500Cs key features are:

- Fully Connected Logic Array Each array input is always available to every product term. This makes logic placement a breeze.
- Selectable D- and T-Type Registers Each ATF2500C flip-flop can be individually
 configured as either D- or T-type. Using the T-type configuration, JK and SR flip-flops are also
 easily created. These options allow more efficient product term usage.
- Buried Combinatorial Feedback Each macrocell's Q2 register may be bypassed to feed its input (D/T2) directly back to the logic array. This provides further logic expansion capability without using precious pin resources.
- Selectable Synchronous/Asynchronous Clocking Each of the ATF2500Cs flip-flops has a dedicated clock product term. This removes the constraint that all registers use the same clock. Buried state machines, counters and registers can all coexist in one device while running on separate clocks. Individual flip-flop clock source selection further allows mixing higher performance pin clocking and flexible product term clocking within one design.
- A Total of 48 Registers The ATF2500C provides two flip-flops per macrocell a total of 48. Each register has its own clock and reset terms, as well as its own sum term.
- Independent I/O Pin and Feedback Paths Each I/O pin on the ATF2500C has a dedicated input path. Each of the 48 registers has its own feedback term into the array as well. These features, combined with individual product terms for each I/O's output enable, facilitate true bi-directional I/O design.
- Combinable Sum Terms Each output macrocell's three sum terms may be combined into
 a single term. This provides a fan in of up to 12 product terms per sum term with no speed
 penalty.
- Programmable Pin-keeper Circuits These weak feedback latches are useful for bus interfacing applications. Floating pins can be set to a known state if the Pin-keepers are enabled.
- User Row (64 bits) Use to store information such as unit history.



4. Power-up Reset

The registers in the ATF2500Cs are designed to reset during power-up. At a point delayed slightly from V_{CC} crossing V_{RST} , all registers will be reset to the low state. The output state will depend on the polarity of the output buffer.

This feature is critical for state as nature of reset and the uncertainty of how V_{CC} actually rises in the system, the following conditions are required:

- 1. The V_{CC} rise must be monotonic,
- 2. After reset occurs, all input and feedback setup times must be met before driving the clock pin or terms high, and
- 3. The clock pin, and any signals from which clock terms are derived, must remain stable during t_{PR}.

Figure 4-1. Power-up Reset Waveform

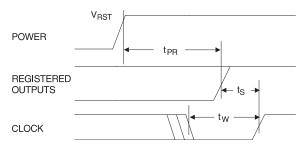


Table 4-1. Power-up Reset

Parameter	Description	Тур	Max	Units
t _{PR}	Power-up Reset Time	600	1000	ns
V _{RST}	Power-up Reset Voltage	3.8	4.5	V

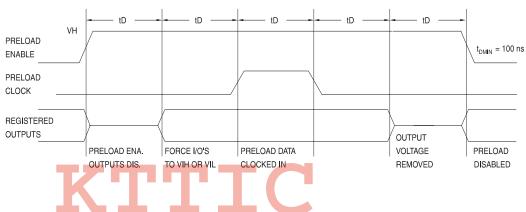
5. Preload and Observability of Registered Outputs

The ATF2500Cs registers are provided with circuitry to allow loading of each register asynchronously with either a high or a low. This feature will simplify testing since any state can be forced into the registers to control test sequencing. A VIH level on the odd I/O pins will force the appropriate register high; a V_{II} will force it low, independent of the polarity or other configuration bit settings.

The PRELOAD state is entered by placing an 10.25V to 10.75V signal on SMP lead 42. When the preload clock SMP lead 23 is pulsed high, the data on the I/O pins is placed into the 12 registers chosen by the Q select and even/odd select pins.

Register 2 observability mode is entered by placing an 10.25V to 10.75V signal on pin/lead 2. In this mode, the contents of the buried register bank will appear on the associated outputs when the OE control signals are active.

Figure 5-1. Preload Waveforms



Preload Levels Table 5-1.

Level Forced on Odd I/O Pin during PRELOAD Cycle	Q Select Pin State	Even/Odd Select	Even Q1 State after Cycle	Even Q2 State after Cycle	Odd Q1 State after Cycle	Odd Q2 State after Cycle
V _{IH} /V _{IL}	Low	Low	High/Low	Х	Х	Х
V _{IH} /V _{IL}	High	Low	Х	High/Low	Χ	Х
V _{IH} /V _{IL}	Low	High	Х	Х	High/Low	Х
V _{IH} /V _{IL}	High	High	Х	Х	Х	High/Low



6. Software Support

All family members of the ATF2500C can be designed with Atmel-WinCUPL.

Additionally, the ATF2500C may be programmed to perform the ATV2500Hs functional subset (no T-type flip-flops, pin clocking or D/T2 feedback) using the ATV2500H JEDEC file. In this case, the ATF2500C becomes a direct replacement or speed upgrade for the ATV2500H. The ATF2500C are direct replacements for the ATV2500B/BQ and the ATV2500H, including the lack of extra grounds on P4 and P26.

6.1 Software Compiler Mode Selection

 Table 6-1.
 Software Compiler Mode Selection

Device	Atmel - WinCupL Device Mnemonic	Pin-keeper
ATF2500C-DIP	V2500C V2500CPPK	Disabled Enabled
ATF2500C-PLCC	V2500LCC V2500CPPKLCC	Disabled Enabled

6.2 Third Party Programmer Support

Table 6-2. Third Party Programmer Support
Major Third Party Device Programmers support three types of JEDEC files.

Device	Description
ATF2500C (V2500)	V2500 Cross-programming. JEDEC file compatible with standard V2500 JEDEC file (Total fuses in JEDEC file = 71648). The Programmer will automatically disable the User row fuses and also disable the pin-keeper feature. The Fuse checksum will be the same as the old ATV2500H/L file. This Device type is recommended for customers that are directly migrating from an ATV2500H/L device to an ATF2500C device.
ATF2500C (V2500B)	V2500B Cross-programming. JEDEC file compatible with standard V2500B JEDEC file (Total fuses in JEDEC file = 71745). The Programmer will automatically disable the User row fuses and also disable the pin-keeper feature. The Fuse checksum will be the same as the old ATV2500B/BQ/BQL/BL file. This Device type is recommended for customers that are directly migrating from an ATV2500B/BQ/BQL/BL device to an ATF2500C device.
ATF2500C	Programming of User Row bits supported and Pin keeper bit is user-programmable. (Total fuses in JEDEC file = 71816). This is the default device type and is recommended for users that have Re-compiled their Source Design files to specifically target the ATF2500C device.

Note: The ATF2500C has 71816 Jedec fuses.

7. Security Fuse Usage

A single fuse is provided to prevent unauthorized copying of ATF2500C fuse patterns. Once programmed, the outputs will read programmed during verify.

The security fuse should be programmed last, as its effect is immediate.

The security fuse also inhibits Preload and Q2 observability.

8. Bus-friendly Pin-keeper Input and I/O

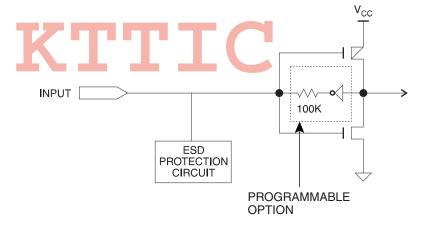
All ATF2500C family members have programmable internal input and I/O pin-keeper circuits.

The default condition, including when using the AT2500C/CQ family to replace the AT2500B/BQ or AT2500H, is that the pin-keepers are not activated.

When pin-keepers are active, inputs or I/Os not being driven externally will maintain their last driven state. This ensures that all logic array inputs and device outputs are known states. Pin-keepers are relatively weak active circuits that can be easily overridden by TTL-compatible drivers (see input and I/O diagrams below).

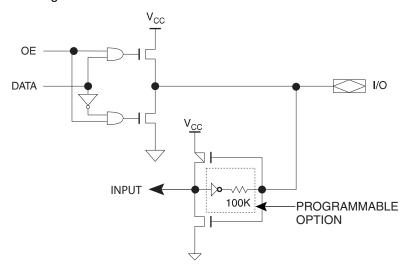
Enabling or disabling of the pin-keeper circuits is controlled by the device type chosen in the logic compiler device selection menu. Please refer to the Software Compiler Mode Selection table for more details. Once the pin-keeper circuits are disabled, normal termination procedures required for unused inputs and I/Os.

Figure 8-1. Input Diagram



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Figure 8-2. I/O Diagram



9. Functional Logic Diagram Description

The ATF2500C functional logic diagram describes the interconnections between the input, feedback pins and logic cells. All interconnections are routed through the single global bus.

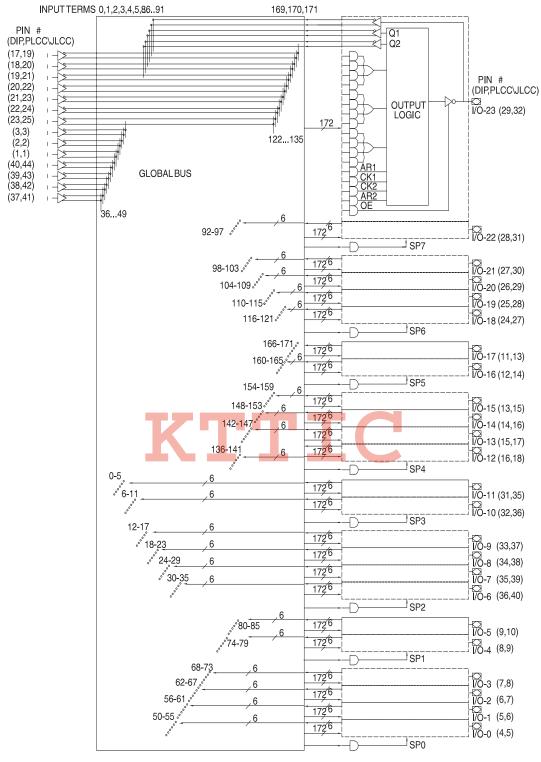
The ATF2500Cs are straightforward and uniform PLDs. The 24 macrocells are numbered 0 through 23. Each macrocell contains 17 AND gates. All AND gates have 172 inputs. The five lower product terms provide AR1, CK1, CK2, AR2, and OE. These are: one asynchronous reset and clock per flip-flop, and an output enable. The top 12 product terms are grouped into three sum terms, which are used as shown in the macrocell diagrams.

Eight synchronous preset terms are distributed in a 2/4 pattern. The first four macrocells share Preset 0, the next two share Preset 1, and so on, ending with the last two macrocells sharing Preset 7.

The 14 dedicated inputs and their complements use the numbered positions in the global bus as shown. Each macrocell provides six inputs to the global bus: (left to right) feedback F2⁽¹⁾ true and false, flip-flop Q1 true and false, and the pin true and false. The positions occupied by these signals in the global bus are the six numbers in the bus diagram next to each macrocell.

Note: 1. Either the flip-flop input (D/T2) or output (Q2) may be fed back in the ATF2500Cs.

9.1 Functional Logic Diagram ATF2500C



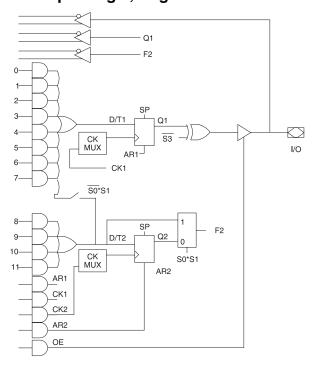
Notes: 1. Pin 4 and Pin 26 are "ground" connections and are not required for PLCC, LCC and JLCC versions of ATF2500C, making them compatible with ATV2500H, ATV2500B and ATV2500BQ pinouts.

2. For DIP package, VCC = P10 and GND = P30. For, PLCC, LCC and JLCC packages, VCC = P11 and P12, GND = P33 and P34, and GND = P4, P26 (See Note 1, above).



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9.2 Output Logic, Registered⁽¹⁾



S2	S2 = 0		ns in	
S1	S0	D/T1	D/T2	Output Configuration
0	0	8	4	Registered (Q1); Q2 FB
1	0	12	4 ⁽¹⁾	Registered (Q1); Q2 FB
1	1	8	4	Registered (Q1); D/T2 FB

S3	Output Configuration	
0	Active Low	
1	Active High	

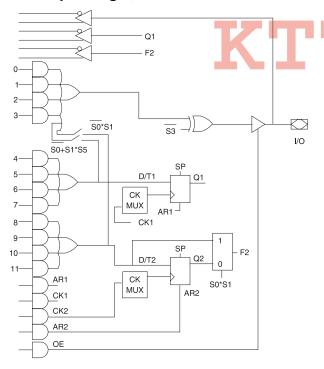
S 6	Q1 CLOCK
0	CK1
1	CK1 • PIN1

S4	Register 1 Type		
0	D		
1	Т		

S7	Q2 CLOCK	
0	CK2	
1	CK2 • PIN1	

S5	Register 2 Type	
0	D	
1	Т	

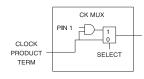
9.3 Output Logic, Combinatorial⁽¹⁾



S2 = 1		S2 = 1 Terms in			
S5	S1	S0	D/T1	D/T2	Output Configuration
Х	0	0	4 ⁽¹⁾	4	Combinatorial (8 Terms); Q2 FB
X	0	1	4	4	Combinatorial (4 Terms); Q2 FB
Х	1	0	4 ⁽¹⁾	4 ⁽¹⁾	Combinatorial (12 Terms); Q2 FB
1	1	1	4 ⁽¹⁾	4	Combinatorial (8 Terms); D/T2 FB
0	1	1	4	4	Combinatorial (4 Terms); D/T2 FB

Note: 1. These four terms are shared with D/T1.

Figure 9-1. Clock Option



Note: 1. These diagrams show equivalent logic functions, not necessarily the actual circuit implementation.

10. Absolute Maximum Ratings*

Temperature Under Bias55°C to +125°C
Storage Temperature65°C to +150°C
Junction Temperature150°C Max
Voltage on Any Pin with Respect to Ground2.0V to +7.0V ⁽¹⁾

*NOTICE:

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Note: 1.

Minimum voltage is -0.6V DC which may undershoot to -2.0V for pulses of less than 20 ns.
 Maximum output pin voltage is V_{CC} + 0.75V DC which may overshoot to +7.0V for pulses of less than 20 ns.

11. DC and AC Operating Conditions

	Commercial	Industrial	Military
Operating Temperature	0°C - 70°C (Ambient)	-40°C - 85°C (Ambient)	-55°C - 125°C (Case)
V _{CC} Power Supply	5V ± 5%	5V ± 10%	5V ± 10%

11.1 ATF2500C DC Characteristics

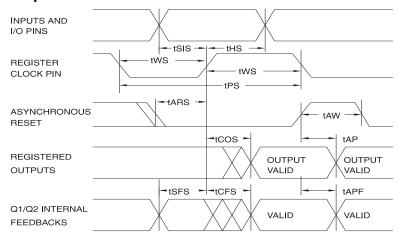
Symbol	Parameter	Condition	ПП		Min	Тур	Max	Units
I _{IL}	Input Load Current	$V_{IN} = -0.1V$ to V_{CO}	; + 1V				10	μΑ
I _{LO}	Output Leakage Current	$V_{OUT} = -0.1V$ to V_0	_{CC} + 0.1V				10	μΑ
1	Power Supply	$V_{CC} = MAX,$ $V_{IN} = GND \text{ or }$	ATF2500C	Com.		80	110	mA
I _{CC}	Current Standby	V _{CC} f = 0 MHz, Outputs Open	A11 23000	Ind., Mil.		80	130	mA
V _{IL}	Input Low Voltage	MIN ≤V _{CC} ≤MAX			-0.6		0.8	V
V _{IH}	Input High Voltage				2.0		V _{CC} + 0.75	V
	Output Low	$V_{IN} = V_{IH} \text{ or } V_{IL},$	I _{OL} = 8 mA	Com., Ind.			0.5	V
V_{OL}	Voltage	$V_{CC} = 4.5V$	I _{OL} = 6 mA	Mil.			0.5	V
V	Output High Voltage	V - MINI	I _{OH} = -100 μA		V _{CC} - 0.3			V
V OH		$V_{CC} = MIN$	I _{OH} = -4.0 mA		2.4	·		·

Note: 1. See I_{CC} versus frequency characterization curves.

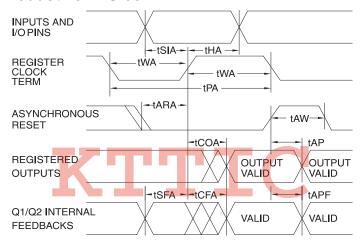


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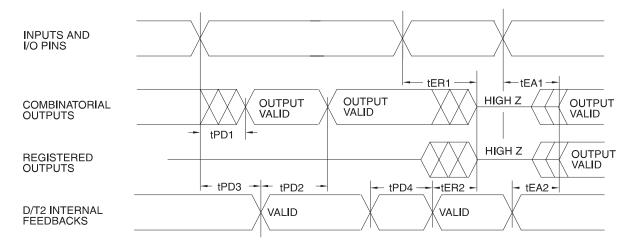
11.2 AC Waveforms⁽¹⁾ Input Pin Clock



11.3 AC Waveforms⁽¹⁾ Product Term Clock



11.4 AC Waveforms⁽¹⁾ Combinatorial Outputs and Feedback



Note: 1. Timing measurement reference is 1.5V. Input AC driving levels are 0.0V and 3.0V, unless otherwise specified.

11.5 ATF2500C AC Characteristics

		-1	-15		20	
Symbol	Parameter	Min	Max	Min	Max	Units
t _{PD1}	Input to Non-registered Output		15		20	ns
t _{PD2}	Feedback to Non-registered Output		15		20	ns
t _{PD3}	Input to Non-registered Feedback		11		15	ns
t _{PD4}	Feedback to Non-registered Feedback		11		15	ns
t _{EA1}	Input to Output Enable		15		20	ns
t _{ER1}	Input to Output Disable		15		20	ns
t _{EA2}	Feedback to Output Enable		15		20	ns
t _{ER2}	Feedback to Output Disable		15		20	ns
t _{AW}	Asynchronous Reset Width	8		12		ns
t _{AP}	Asynchronous Reset to Registered Output		18		22	ns
t _{APF}	Asynchronous Reset to Registered Feedback		15		19	ns

11.6 ATF2500C Register AC Characteristics, Input Pin Clock

		-15		-20		
Symbol	Parameter	Min	Max	Min	Max	Units
t _{COS}	Clock to Output		10		11	ns
t _{CFS}	Clock to Feedback	0	5	0	6	ns
t _{SIS}	Input Setup Time	9		14		ns
t _{SFS}	Feedback Setup Time	9		14		ns
t _{HS}	Hold Time	0		0		ns
t _{WS}	Clock Width	6		7		ns
t _{PS}	Clock Period	12		14		ns
	External Feedback 1/(t _{SIS} + t _{COS})		52		40	MHz
F _{MAXS}	Internal Feedback 1/(t _{SFS} + t _{CFS})		71		50	MHz
	No Feedback 1/(t _{PS})		83		71	MHz
t _{ARS}	Asynchronous Reset/Preset Recovery Time	12		15		ns

11.7 ATF2500C Register AC Characteristics, Product Term Clock

		-15		-20		
Symbol	Parameter	Min	Max	Min	Max	Units
t _{COA}	Clock to Output		15		20	ns
t _{CFA}	Clock to Feedback	5	12	10	16	ns
t _{SIA}	Input Setup Time	5		10		ns
t _{SFA}	Feedback Setup Time	5		8		ns
t _{HA}	Hold Time	5		10		ns
t _{WA}	Clock Width	7.5		11		ns
t _{PA}	Clock Period	15		22		ns
	External Feedback 1/(t _{SIA} + t _{COA})		50		33	MHz
F_{MAXA}	Internal Feedback 1/(t _{SFA} + t _{CFA})		58		38	MHz
	No Feedback 1/(t _{PS})		66		45	MHz
t _{ARA}	Asynchronous Reset/Preset Recovery Time	8		12		ns

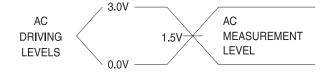
11.8 Pin Capacitance

 $f = 1 \text{ MHz}, T = 25^{\circ}C^{(1)}$

	Тур	Max	Units	Conditions
C _{IN}	4	6	pF	$V_{IN} = 0V$
C _{OUT}	8	12	pF	V _{OUT} = 0V

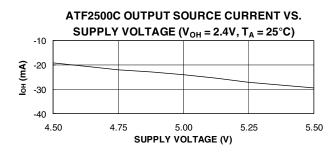
Note: 1. Typical values for nominal supply voltage. This parameter is only sampled and is not 100% tested.

11.9 Test Waveforms and Measurement Levels

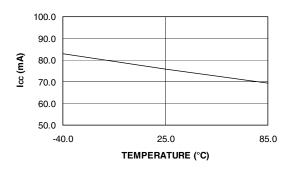


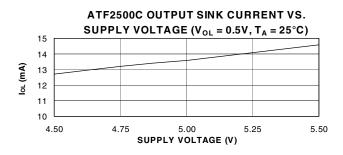
11.10 Output Test Load

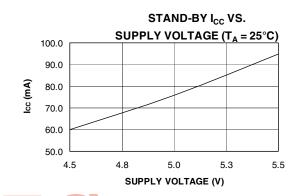
12. ATF2500C Characterization Data

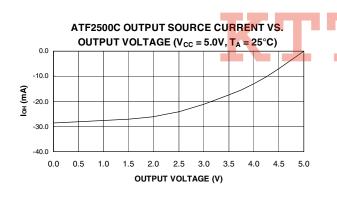


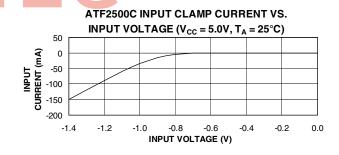
STAND-BY I_{CC} VS. TEMPERATURE ($V_{CC} = 5.0V$)

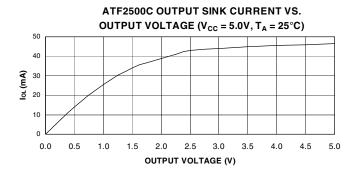


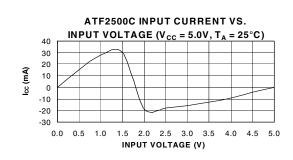




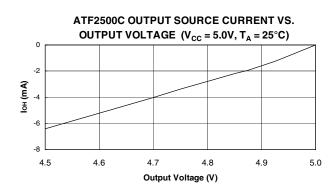


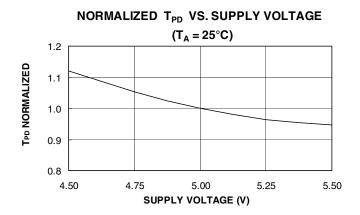


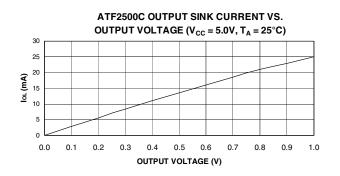


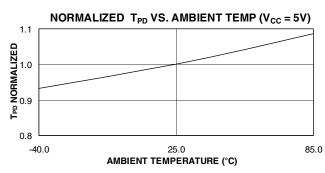


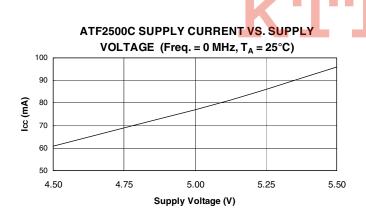
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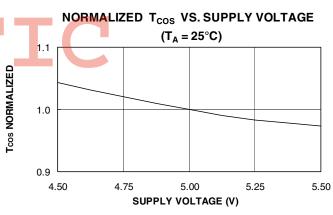


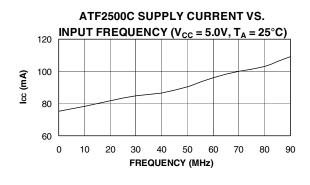


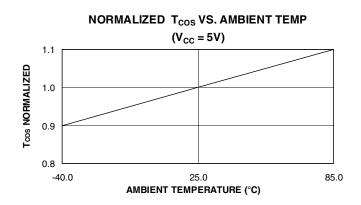


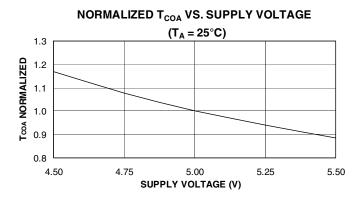


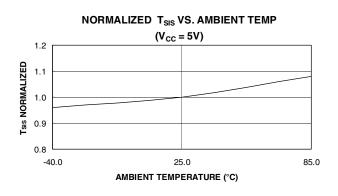


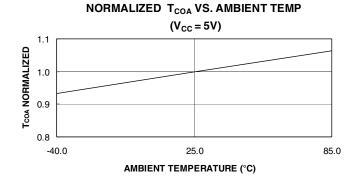


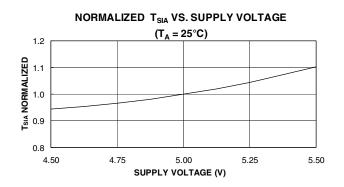


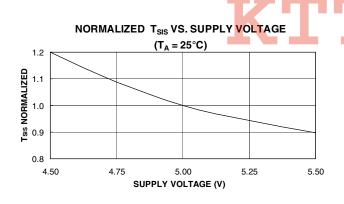


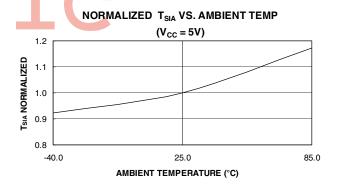












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13. Ordering Information

13.1 Standard Package Options

t _{PD} (ns)	t _{cos} (ns)	Ext. f _{MAXS} (MHz)	Ordering Code	Package	Operation Range
15	10	52	ATF2500C-15JC	44J	Commercial (0° C to 70° C)
	10		ATF2500C-15JI	44J	Industrial (-40° C to 85° C)
20	20 11 40	40	ATF2500C-20JC ATF2500C-20PC	44J 40P6	Commercial (0° C to 70° C)
20		40	ATF2500C-20JI ATF2500C-20PI	44J 40P6	Industrial (-40° C to 85° C)

13.2 Military Temperature Grade Standard Package Options

t _{PD} (ns)	t _{cos} (ns)	Ext. f _{MAXS} (MHz)	Ordering Code	Package	Operation Range
20	11	40	ATF2500C-20KM	44K	Military
20	11	40	ATF2500C-20GM	40D6	(-55° C to 125° C)

13.3 Green Package Options (Pb/Halide-free/RoHS Compliant)

t _{PD} (ns)	t _{cos} (ns)	Ext. f _{MAXS} (MHz)	Ordering Code	Package	Operation Range
15	10	52	ATF2500C-15JU	44J	Industrial
20	11	40	ATF2500C-20PU	40P6	(-40° C to 85° C)

	Package Type						
40D6	40-lead, Non-windowed, Ceramic Dual Inline Package (Cer DIP)						
40P6	40-pin, 0.600" Wide, Plastic, Dual Inline Package (PDIP)						
44J	44-lead, Plastic J-leaded Chip Carrier (PLCC)						
44K	44-lead, Non-windowed, Ceramic J-leaded Chip Carrier (JLCC)						

14. Packaging Information

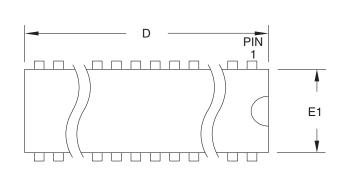
14.1 40D6 - DIP (CerDIP)

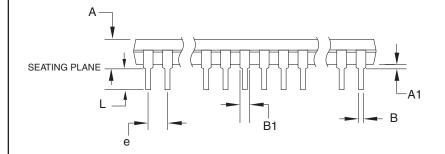
Dimensions in Millimeters and (Inches). Controlling dimension: Inches. MIL-STD 1835 D-5 Config A (Glass Sealed) 53.09(2.090) 51.82(2.040) PIN 15.49(0.610) 12.95(0.510) 48.26(1.900) REF 5.72(0.225) 0.127(0.005)MIN MAX **SEATING PLANE** 1.78(0.070) 5.08(0.200) 0.38(0.015) 3.18(0.125) 0.66(0.026) 1.65(0.065) 0.36(0.014) 1.14(0.045) 2.54(0.100)BSC 15.70(0.620) 15.00(0.590) 0°~ 15° REF 0.46(0.018) 0.20(0.008) 17.80(0.700) MAX 10/23/03 DRAWING NO. TITLE REV. 2325 Orchard Parkway 40D6, 40-lead, 0.600" Wide, Non-windowed, 40D6 В San Jose, CA 95131 Ceramic Dual Inline Package (Cerdip)

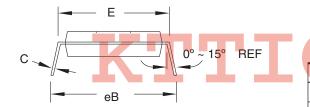


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14.2 40P6 - PDIP







COMMON DIMENSIONS (Unit of Measure = mm)

SYMBOL	MIN	NOM	MAX	NOTE
Α	_	_	4.826	
A1	0.381	_	ı	
D	52.070	_	52.578	Note 2
E	15.240	-	15.875	
E1	13.462	_	13.970	Note 2
В	0.356	-	0.559	
B1	1.041	_	1.651	
L	3.048	_	3.556	
С	0.203	-	0.381	
еВ	15.494	_	17.526	
е				

Notes: 1. This package conforms to JEDEC reference MS-011, Variation AC.

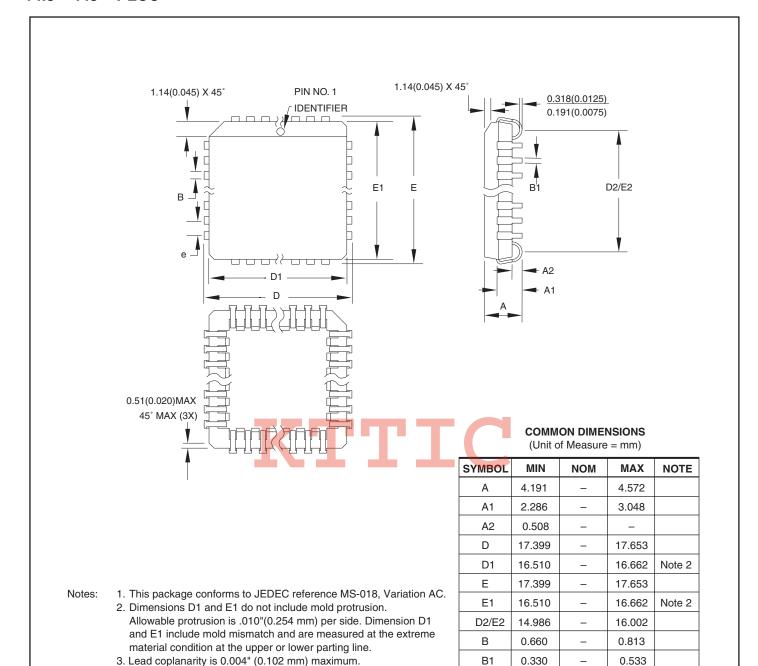
 Dimensions D and E1 do not include mold Flash or Protrusion. Mold Flash or Protrusion shall not exceed 0.25 mm (0.010").

09/28/01

2325 Orchard Parkway San Jose, CA 95131 TITLE
40P6, 40-lead (0.600"/15.24 mm Wide) Plastic Dual Inline Package (PDIP)

TITLE
40P6, 40-lead (0.600"/15.24 mm Wide) Plastic Dual B

14.3 44J - PLCC



10/04/01

2325 Orchard Parkway San Jose, CA 95131 **TITLE 44J**, 44-lead, Plastic J-leaded Chip Carrier (PLCC)

DRAWING NO. REV.
44J B

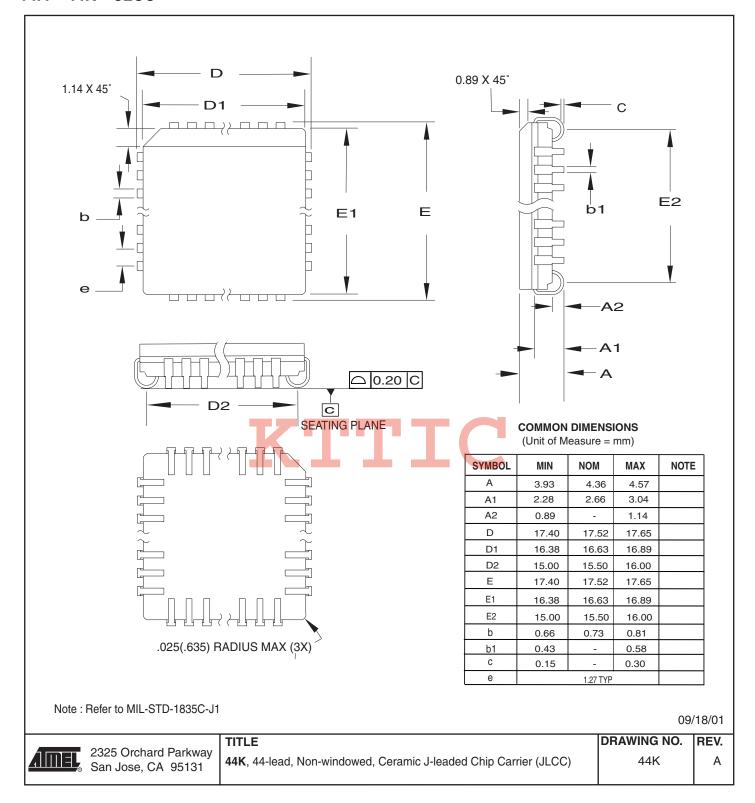


1.270 TYP

е

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14.4 44K - JLCC



15. Revision History

Revision Level – Release Date	History
J – May 2005	Added fully Green and Military temperatures packages in Section 13. "Ordering Information" on page 18.
K – Jan. 2008	Added 40-pin CerDIP Package Option.

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