Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Features

- **MultiMediaCard (MMC) Form Factor**
- **Single 2.7V to 3.6V Supply**
- **20 MHz Max Clock Frequency**
- **Serial Peripheral Interface (SPI) Compatible**
- **Low Power Dissipation**
  - **4 mA Active Read Current Typical**
  - **2 μA CMOS Standby Current Typical**
- **Industrial Temperature Range**

Description

The AT45DCB008, AT45DCB004 and AT45DCB002 are 2.7-volt only SPI compatible serial interface DataFlash® Cards. They are offered in 8-megabyte (64-Mbit), 4-mega-byte (32-Mbit) and 2-megabyte (16-Mbit) densities. These 7-pin cards are form factor compatible to the MultiMediaCard standard leveraging on a wide range of low cost connectors that are commercially available. Additionally, the DataFlash Card is pinout compatible to the SPI version of the MMC card.

The small form factor and simple interface make the DataFlash Card ideal for a wide variety of data- and program code-storage applications where a removable storage medium is required. Applications range from voice/audio, text or image storage to soft-ware applications, system upgrades and software patches.

For detailed device specifications, please refer to the corresponding DataFlash datasheets:

- AT45DCB008 reference AT45DB642
- AT45DCB004 reference AT45DB321B
- AT45DCB002 reference AT45DB161B

Pin Configuration

Pin #	Pin Name	Function
1	$\overline{CS}$	Chip Select
2	SI	Serial Input
3	GND	Ground
4	VCC	Supply
5	SCK	Serial Clock
6	NC	No Connect
7	SO	Serial Output

DataFlash Card

Top View

7 6 5 4 3 2 1
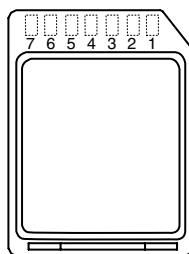
8-megabyte, 4-megabyte, and 2-megabyte 2.7-volt Only DataFlash® Cards
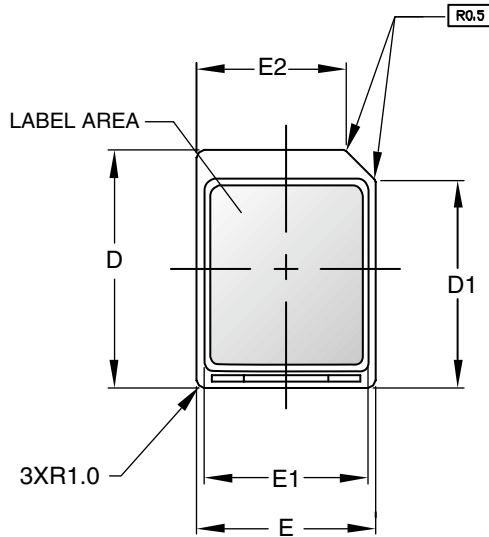
**AT45DCB008
AT45DCB004
AT45DCB002**

Ordering Information

f$_{SCK}$ (MHz)	I$_{CC}$ (mA)		Ordering Code	Package	Operation Range
	Active	Standby			
20	10	0.01	AT45DCB008 AT45DCB004 AT45DCB002	7DF1	Industrial (-40°C to 85°C)

Package Type	
7DF1	7-lead, 2.5 mm Pitch 24 x 32 x 1.4 mm Body DataFlash Card

Packaging Information

7DF1 – DataFlash Card

R0.5

E2

LABEL AREA

A

D

D1

0.2

3XR1.0

E1

R0.25 ALL AROUND

SIDE VIEW

E

TOP VIEW

E3

e

B

G

C

1 2 3 4 5 6 7

F
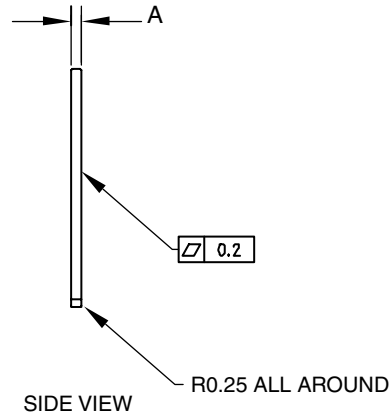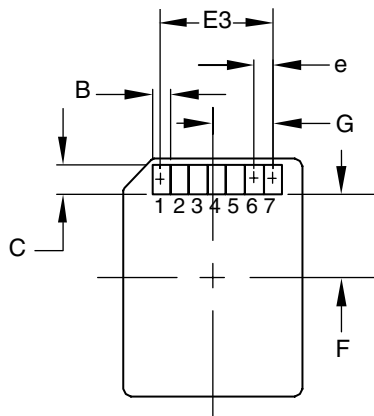
BOTTOM VIEW

COMMON DIMENSIONS
(Unit of Measure = mm)

SYMBOL	MIN	NOM	MAX	NOTE
A	1.30	1.40	1.50	
B		2.40 TYP		
C		4.00 TYP		
D	31.90	32.00	32.10	
D1		28.00 REF		
E	23.90	24.00	24.10	
E1		22.00 REF		
E2		20.00 REF		
E3		15.00 TYP		
F		20.00 REF		
G		15.00 TYP		
e		2.50 TYP		

10/09/01

	TITLE	DRAWING NO.	REV.
AImEL 2325 Orchard Parkway San Jose, CA 95131	**7DF1**, 7-pad, 2.5 mm Pitch 24 x 32 x 1.4 mm Body DataFlash Card	7DF1	A

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