## **Features**

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

## **Description**

The AT45DCB008D, AT45DCB004D and AT45DCB002D are 2.7-volt only SPI compatible serial interface DataFlash® Cards. They are offered in 8-megabyte (64-Mbit), 4-megabyte (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 software applications, system upgrades and software patches.

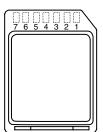
For detailed device specifications, please refer to the corresponding DataFlash datasheets:

- AT45DCB008D reference AT45DB642D
- AT45DCB004D reference AT45DB321D
- AT45DCB002D reference AT45DB161D

## **Pin Configuration**

Pin #	Pin Name	Function	
1	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	







8-megabyte, 4-megabyte, and 2-megabyte 2.7-volt Only DataFlash® Cards

AT45DCB008D AT45DCB004D AT45DCB002D





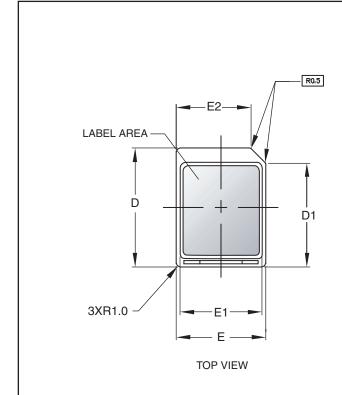
# **Ordering Information**

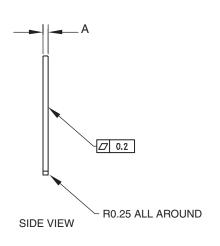
f <sub>SCK</sub>	I <sub>CC</sub> (mA)				
(MHz)	Active	Standby	Ordering Code	Package	Operation Range
66	15	0.05	AT45DCB008D AT45DCB004D AT45DCB002D	7DF1	Industrial (-40° C to 85° C)

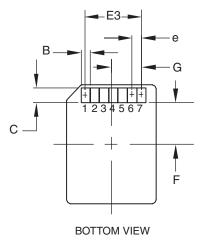
Package Type				
7DF1	7-lead, 2.5 mm Pitch 24 x 32 x 1.4 mm Body DataFlash Card			

## **Packaging Information**

## 7DF1 - DataFlash Card







### **COMMON DIMENSIONS** (Unit of Measure = mm)

SYMBOL	MIN	NOM	MAX	NOTE
Α	1.30	1.40	1.50	
В	2.40 TYP			
С	4.00 TYP			
D	31.90	32.00	32.10	
D1	28.00 REF			
Е	23.90	24.00	24.10	
E1	22.00 REF			
E2	20.00 REF			
E3	15.00 TYP			
F	11.20 REF			
G				
е	2.50 TYP			

11/10/05 REV.

2325 Orchard Parkway San Jose, CA 95131

TITLE

7DF1, 7-pad, 2.5 mm Pitch 24 x 32 x 1.4 mm Body DataFlash Card

DRAWING NO. 7DF1

В





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