

MCF10P-xxxxV Series

2D NAND SLC

Rev. 1.00

概要 Overview

CompactFlash™ MCF10P-xxxxV シリーズは、突然の電源断に対する耐性と電源断によるエラーを未然に防ぐ仕組みを持った CompactFlash です。このシリーズでは、512MB ~ 16GB の容量を用意しています。ドライブは、データ転送モード Ultra DMA mode 4(66.6MB/sec)までをサポートしています。

このドライブは、半導体を用いた不揮発性ドライブのため、FA 機器、各種端末、計測機器、券売機など耐環境性を要求される分野に最適です。

The CompactFlash™ card MCF10P-xxxxV series is designed to be immune to sudden power failure and contains a mechanism to prevent errors caused by sudden power failure. The series consists having capacities of 512MB to 16GB. Each drive supports a range of data transfer modes up to Ultra DMA mode 4(66.6MB/sec).

These semiconductor-based nonvolatile drives are ideal for ATMs, industrial machines, POS terminals, measuring equipment, ticket vending machines, parking systems, and other applications requiring environmental resistance

特徴 Features

- 容量 / Capacity
512MB ~ 16GB
- 形状 / Form Factor
50 ピン2 ピースコネクタType I (厚さ3.3mm)
50 pin two piece connector with Type-I form factor (3.3mm Thick)
- CF+ and CompactFlash Specification Revision 4.1
3.3V/5V 単一電源動作 / 3.3V or 5.0V single power supply.
256 バイトアトリビュートメモリ / Support for CIS implemented with 256 bytes of attribute memory
- インターフェース / Interface
PC カードメモリモード / PC card memory mode
PC カードI/O モード / PC card I/O mode
True IDE モード / True IDE mode
- 電源電圧 / Power supply voltage
3.3 V ± 5% or 5.0 V ± 10%
- 消費電流 / Power consumption

5V operation (UDMA mode4 operation)

Operation	512MB	1GB	2GB	4GB	8GB	16GB	Unit
Read	115	115	115	125	130	170	mA(Typ.)
Write	75	75	75	80	115	155	mA(Typ.)
Idle	2	2	2	2	2	2	mA(Typ.)

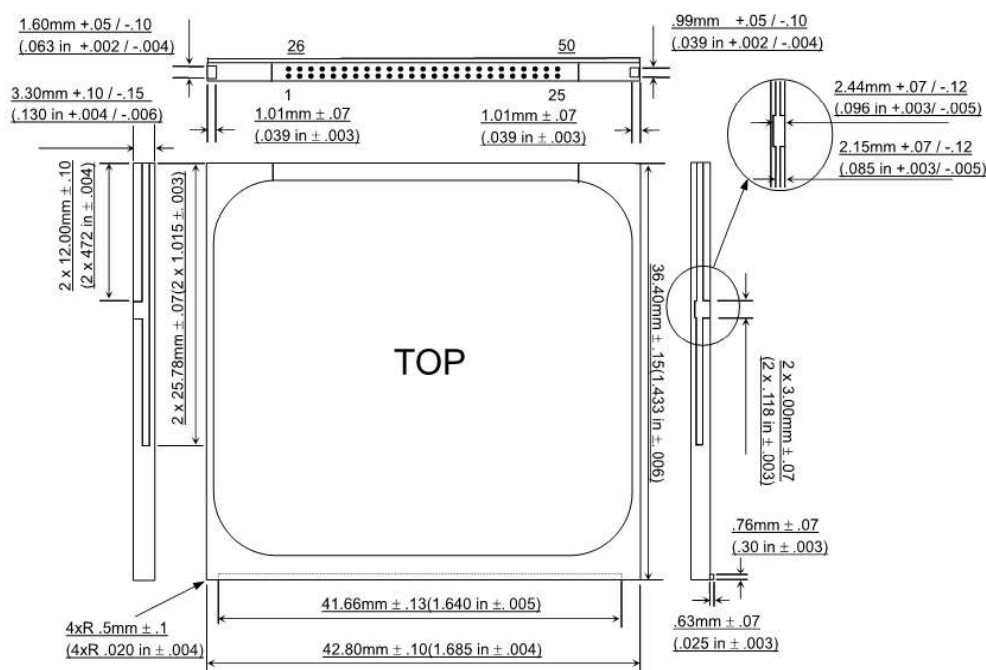
3.3V operation (UDMA mode4 operation)

Operation	512MB	1GB	2GB	4GB	8GB	16GB	Unit
Read	95	95	95	105	110	140	mA(Typ.)
Write	70	70	70	75	110	145	mA(Typ.)
Idle	2	2	2	2	2	2	mA(Typ.)

- 動作温度 / Operating temperature
温度拡張品 : 0~70°C [Commercial Grade] -40~85°C [Industrial Grade]
- 性能
Burst data transfer rate (Drive-Host) 66.6 MB/sec. (Theoretically)
Sustained Read speed 27 MB/sec. (512MB, 1GB, 2GB, 4GB, 8GB), 48 MB/sec. (16GB)
Sustained Write speed 9 MB/sec. (512MB, 1GB, 2GB, 4GB), 18 MB/sec. (8GB), 34 MB/sec. (16GB)
耐衝撃性 / Shock resistance 9,800m/s²(1,000G) (MAX) [非動作状態/non-operating state]
耐振動性 / Vibration resistance 147m/s²(15G) peak (20~2,000 Hz) [非動作状態/non-operating state]
- 機能 / Functions
スタティックウェアレベリング
パワーマネジメント機能
S.M.A.R.T.(Self Monitoring and Analysis Reporting Technology)によるドライブ寿命管理機能
ATA セキュリティ機能によるデータ保護機能
ライトプロテクト機能

外形図

Package View



製品型名

Product Models

[Commercial Grade]

Model No.	Unformatted[MB]	Capacity[byte]	Total LBA	Cylinder	Head	Sector
MCF10P-512MV(A02AD)	484	507,838,464	991,872	984	16	63
MCF10P-A01GV(A02AD)	967	1,014,128,640	1,980,720	1,965	16	63
MCF10P-A02GV(A02AD)	1,854	1,944,649,728	3,798,144	3,768	16	63
MCF10P-A04GV(A02AD)	3,577	3,751,501,824	7,327,152	7,269	16	63
MCF10P-A08GV(A02AD)	7,393	7,752,794,112	15,142,176	15,022	16	63
MCF10P-016GV(A02AD)	15,025	15,755,894,784	30,773,232	16,383	16	63

[Industrial Grade]

Model No.	Unformatted[MB]	Capacity[byte]	Total LBA	Cylinder	Head	Sector
MCF10P-512MV(A02ADI)	484	507,838,464	991,872	984	16	63
MCF10P-A01GV(A02ADI)	967	1,014,128,640	1,980,720	1,965	16	63
MCF10P-A02GV(A02ADI)	1,854	1,944,649,728	3,798,144	3,768	16	63
MCF10P-A04GV(A02ADI)	3,577	3,751,501,824	7,327,152	7,269	16	63
MCF10P-A08GV(A02ADI)	7,393	7,752,794,112	15,142,176	15,022	16	63
MCF10P-016GV(A02ADI)	15,025	15,755,894,784	30,773,232	16,383	16	63

1. *出荷時の値となります。実容量はお客様の環境（フォーマット）によってこの値より小さくなる場合があります。
/ Capacity when shipped. The actual capacity (after formatting) in the user environment may be smaller than this value.

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