![Chipsmall logo]

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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

# LE Series

## microSDHC Memory Card, Consumer Plus MLC Model

■ **Product Outline**

LE series are microSDHC memory cards adopting built-in consumer type MLC NAND flash memory.　They are formatted complying with SD card specification.

■ **Product Specification** （specifications and appearances may be changed without notice.）

| | | 4GB | 8GB | 16GB | 32GB |
|---|---|---|---|---|---|
| Appearance | |  |  |  |  |
| Part Number | | RP-SMLE04DA1 | RP-SMLE08DA1 | RP-SMLE16DA1 | RP-SMLE32DA1 |
| Capacity | Available user data area capacity *1) | 3,971,973,120 byte | 7,960,756,224 byte | 16,013,819,904 byte | 32,098,975,744 byte |
| Compliant Specification | SD Physical Specification | Ver. 4.20 | | | |
| | SD speed class | CLASS 10 | | | |
| | UHS speed grade | I 1 | | I 3 | |
| | Speed mode | Default Speed Mode, High Speed Mode, SDR12/SDR25/SDR50/DDR50/SDR104 | | | |
| Backside mark | Control Code | --- | | | |
| Read/Write Performance (up to) | Read | 90MB/s (SDR104 mode) | 90MB/s (SDR104 mode) | 95MB/s (SDR104 mode) | 95MB/s (SDR104 mode) |
| | Write | 25MB/s (SDR104 mode) | 25MB/s (SDR104 mode) | 45MB/s (SDR104 mode) | 90MB/s (SDR104 mode) |
| Absolute Maximum Ratings | Supply Voltage | Min : -0.3 V ; Max : +4.6 V | | | |
| | Input Voltage | Min : -0.3 V ; Max : VDD +0.3 V | | | |
| | Output Voltage | Min : -0.3 V ; Max : VDD +0.3 V | | | |
| | Output Current | Min : -24 mA ; Max : +24 mA | | | |
| Environmental Specification | Operating Temperature | -25 degree C to +85 degree C | | | |
| | Storage Temperature | -40 degree C to +85 degree C | | | |
| | Humidity | 5 % RH to 95 % RH | | | |
| | Vibration | 15 Gp-p | | | |
| | Shock | 1,000 G | | | |
| | Mating Cycles | 10,000 cycles | | | |

*1) Free user area capacity after formatted.

Absolute Maximum Ratings are the values of limitation, which do not damage the card. So those values do not define the operational range.
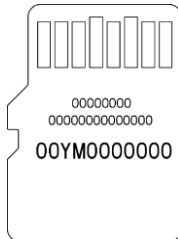
Products comply with EU RoHS directives.

(2016.05.25)

■Marking Specification (example; 4GB)

|  |  |
| --- | --- |
| "4GB" | Card Capacity |
| "MADE IN TAIWAN" | Country of origin |

|  |  |
| --- | --- |
| "00YM0000000" | Serial Number |
| Y | Last digit of Manufacture year |
| M | Manufacture month |
|  | (January->A, February->B,    ) |
| "000000000", | Internal control code |
| "0000000000000" | Internal control code |

## ■ System Reliability
   a. Error detect and corrective function
   b. Static wear leveling
   c. Bad block management

## ■ Notice and Caution
   If you think about the usage for which special quality or reliability of the products is needed and failure or malfunction of the products may directly threaten life or injury for the special usage (aeronautic or cosmic usage, military usage, combustion machine, life support applications or safety applications), please counsel with our contacts in advance.
   Write frequency and storage temperature will affect data retention time. Please make a backup for important data.

## ■ Warranty
   If the product cannot be used because of failure which is determined as defect in design or in production of the product, it is replaced by same product or equivalent one within 12 months from the delivery date of product.

(2016.05.25)