



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!



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M09001



LED Driver and PMIC for TI DLP®/LCoS displays

The M09001 is a highly integrated, high efficiency driver and power management IC designed for LCoS/TI DLP® enabled displays. It provides three SPI or I2C programmable 1.2A LED/laser drivers with >90% efficient buck-boost converter, power management functionalities, including high voltage generators for DMD and LCoS panels. All of these functions are supported while operating from a single Li-Ion cell or 5V adapter. Note: DLP is a registered trademark of Texas Instruments

Features

- Three programmable 1.2A common anode LED/laser drivers
- CSP package
- Li Battery and 5V adapter operation
- Support for both I2C and SPI interface
- Monitor and fault protection features
- Accurate LCoS and DLP panel bias generators
- 1.8 V and programmable 1.0/1.1/1.2/1.5/1.8 V Buck converters and 3.3/2.5V LDO regulator
- Integrated highly efficient buck-boost converter
- Current resolution down to 50uA

Applications

- Head-up and Head mounted displays
- High current laser/LED systems
- LCD/LCoS/DLP portable and embedded pico projectors
- Multicolor LED/laser displays

Specifications

Number of Channels: 3

Part Number	Package
M09001G-11P LED driver and PMIC for HD DLP/LCoS Pico	
M09001G-12 Mobile PicoProjector 1.2A HD SOC	DIE