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M08889

High-Performance 2A RGB LED/Laser Driver with integrated Buck-Boost converter for LCD/LCoS/TI DLP® Projection Displays
The M08889 is a high efficiency three channel 2 A LED/laser driver with integrated buck-boost synchronous DC-DC converter for panel based projection displays. It features automatic optical power control for consistent white balance across temperature variation and light sources aging. The internal buck-boost DC-DC converter automatically regulates the LEDs anodes voltage from a 2.6-5.25 V input voltage to minimize system power dissipation. Note: DLP is a registered trademark of Texas Instruments

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Features

- Three 2 A common anode LED/laser drivers
- Li Battery and 5V adapter operation
- High-speed I2C interface
- Safety circuitry
- Integrated programmable current PWM generator
- 88% efficient Synchronous Buck-Boost DC-DC converter
- Real-time continuous and integrating optical power control
- Integrated 12.5 Msps 10-bit DACs with 6-bit programmable full scale for output current setting

Applications

- Backlight illumination
- Head-up and Head mounted displays
- High current laser/LED systems
- LCD/LCoS/TI DLP® portable and pico projectors
- Multicolor LED/laser displays

Specifications

- Number of Channels: 3

Datasheet

- [M08889.pdf](M08889.pdf)

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Part Number	Package MACOM	
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M08889G-11P 3 chl LED driver with integ DC-DC conv		[Inquire](#)
M08889G-12P 3 chl LED driver with integ DC-DC conv		[Inquire](#)
M08889G-13 Mobile Projector with on chip DC to DC	6x5mm QFN-36LD	[Inquire](#)
M08889G-13P 3 chl LED driver with integ DC-DC conv		[Inquire](#)

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