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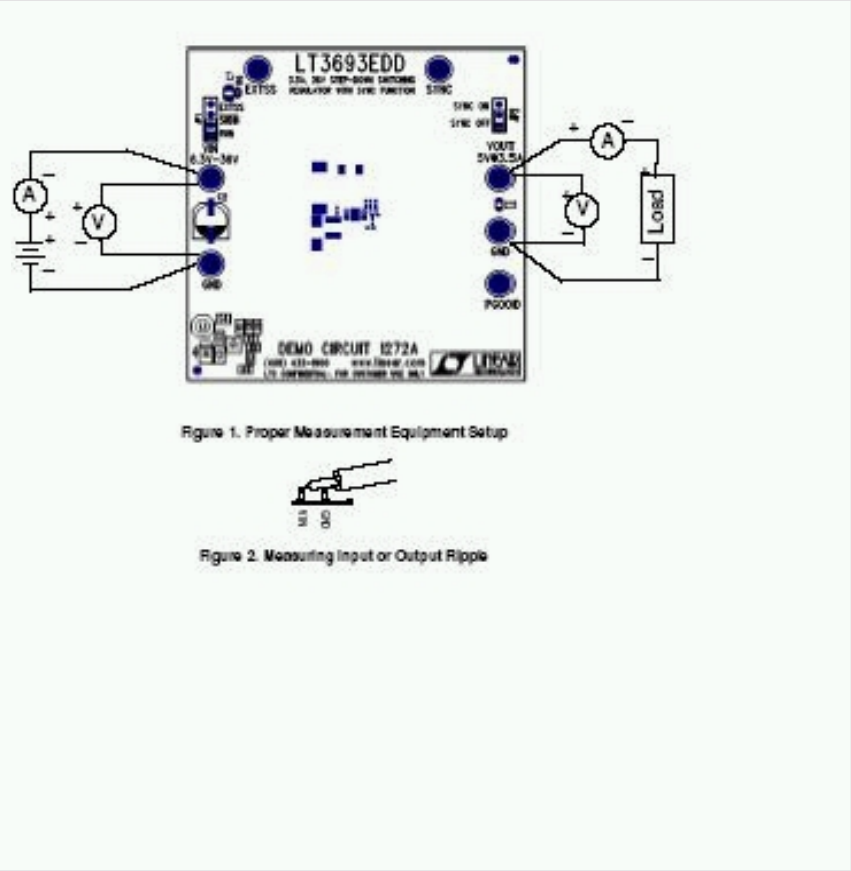
DC1272A- LT3693EMSE Evaluation Kit

FEATURES	DESCRIPTION	PACKAGING	ORDER INFO	SIMULATE	
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FEATURES

- **DC1272A LT3693EMSE Evaluation Kit**
- **Disclaimer:** Linear Technology cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Linear Technology product. No circuit patent licenses are implied. LinearTechnology reserves the right to change the circuitry and specifications without notice at any time.

TYPICAL APPLICATION



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DESCRIPTION

Demonstration circuit 1272 is a monolithic stepdown DC/DC switching regulator featuring LT3693. The LT3693 can be synchronized over a 250 KHz to 2 MHz range. The demo board is designed for 5V output from a 6.3V to 36V input. The wide input range of the LT3693 allows a variety of input sources. The typical sources are automotive batteries, wall adaptors and industrial supplies. The current mode control scheme creates fast transient response and good loop stability. The gate drive of the internal switch is boosted to a voltage that is higher than the Vin to ensure saturation of the switch. The LT3693's integrated boost diode reduces the parts count. The RUN/SS pin can be used to set the part in micropower shutdown mode, reducing the supply current to less than 1uA. The RUN/SS pin can also be used to program soft start. In this mode, the RUN/SS pin is driven through an external RC filter to create a voltage ramp on this pin. The soft start function reduces the input current surge during start-up. The LT3693 datasheet gives a complete description of the part, operation and application information. The datasheet must be read in conjunction with this quick start guide for demo circuit 1272. Note: It is best to ground the SYNC pin if the SYNC function is not being used.

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PACKAGING

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ORDER INFO

- Part numbers ending in PBF are [lead free](#). Please contact LTC marketing for information on lead based finish parts.
- Part numbers containing TR or TRM are shipped [in tape and reel or 500 unit mini tape and reel](#) respectively
- Please refer to our [general ordering information](#) or the product datasheet for more details

Evaluation Kits

Part Number	Description	Price
<a href="#">DC1272A</a>	LT3693EMSE   36V 3.5A 2.4MHz Step Down Switching Reg in MSOP	\$125.00
<a href="#">Buy Now</a>		

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APPLICATIONS

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SIMULATE

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For other simulation tools, visit our [Design Simulation and Device Models](#) page.

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