

NOTES, UNLESS OTHERWISE SPECIFIED:

- 1. The netname "V_PRE_REG" represents connection to the +10V power plane.
- 2. All components with designators "U", "D", "Y" and "Q" are electrostatic discharge sensitive.
- 3. The letters DNI near a part mean "do not install".

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of significant portions of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions. Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have not been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

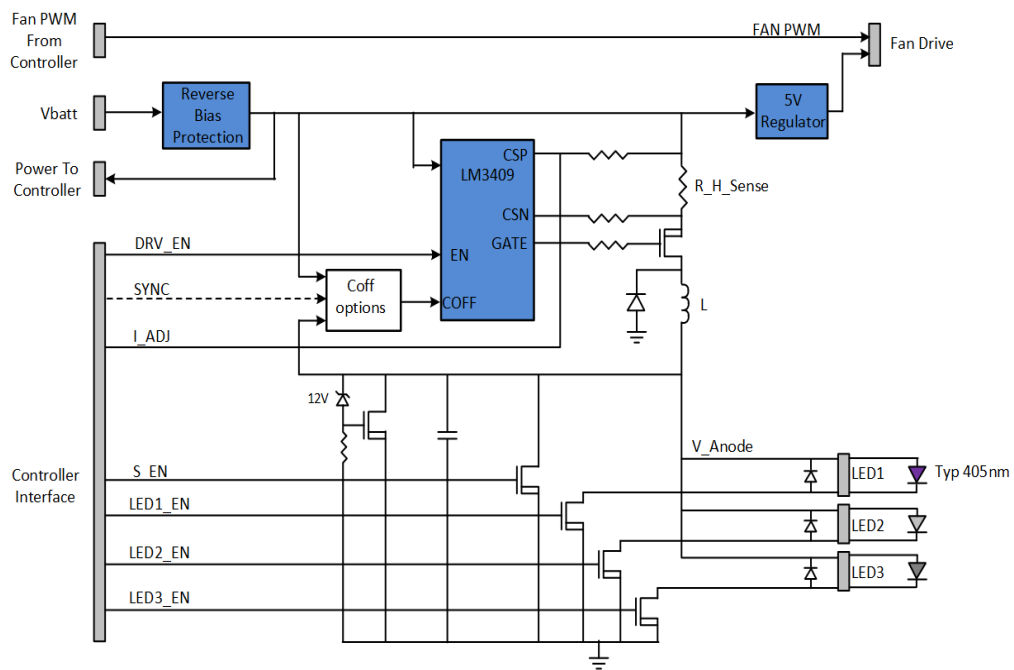
TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

COMPUTER GENERATED DRAWING. DO NOT REVISE MANUALLY			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	Initial Release	TBD	

Z PCB1
PCB: DLP5534Q1EVM Driver
DLP034



	OWN George Pawlowski	DATE 5/8/2019	TEXAS INSTRUMENTS	
	DESIG		(C) COPYRIGHT 2015 TEXAS INSTRUMENTS	
	TEST		ALL RIGHTS RESERVED	
	PRJ		TITLE DLP5534Q1EVM LED Driver	
NEXT ASSY	USED ON		D	DRAWING NO DLP034
APPLICATION	REV	Cadence Capture 16.6	SCALE	SHEET 1 of 4



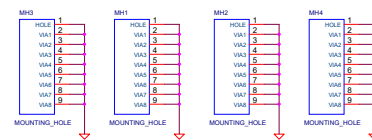
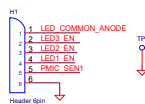
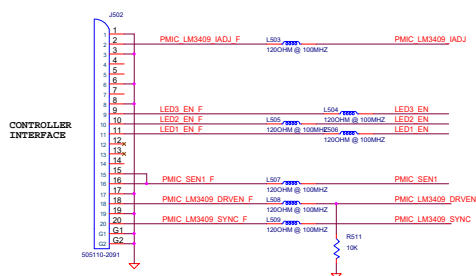
The image shows a detailed PCB layout for a power supply system, specifically a PMIC LM3409. The layout is color-coded and includes various components and their values.

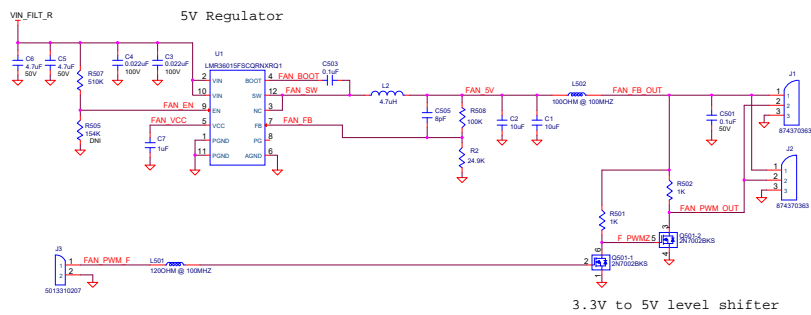
Key Components and Labels:

- PMIC LM3409:** The main power management IC, shown in a 16-pin package.
- LM3409 VIN/O:** Input/output pins of the PMIC.
- LM3409 SYNC:** Synchronization pin.
- COFF 3P3V:** Compensation capacitor for the 3.3V output.
- PMIC LM3409 (ADJ):** The adjustable output pin.
- LED1 CATHODE, LED2 CATHODE, LED3 CATHODE:** Cathode pins for the three LED channels.
- LED1 EN, LED2 EN, LED3 EN:** Enable pins for the three LED channels.
- LED1, LED2, LED3:** The three LEDs being driven.
- LED COMMON ANODE:** The common anode connection for the LEDs.
- PMIC SEN1:** Sense pin for the PMIC.
- PMIC LM3409 DRIVEN:** The output of the PMIC driving the MOSFET.
- PMIC LM3409 SYNC:** The synchronization signal.
- COFF 3P3V:** Compensation capacitor for the 3.3V output.
- PMIC LM3409 (ADJ):** The adjustable output pin.
- LED1 CATHODE, LED2 CATHODE, LED3 CATHODE:** Cathode pins for the three LED channels.
- LED1 EN, LED2 EN, LED3 EN:** Enable pins for the three LED channels.
- LED1, LED2, LED3:** The three LEDs being driven.
- LED COMMON ANODE:** The common anode connection for the LEDs.
- PMIC SEN1:** Sense pin for the PMIC.

Other Labels and Values:

- VIN FILT R:** Input filter resistor.
- VIN FILT:** Input filter capacitor.
- VIN PROTECTED F1:** Input protection fuse.
- LM3409 VIN/O:** Input/output pins of the PMIC.
- LM3409 SYNC:** Synchronization pin.
- COFF 3P3V:** Compensation capacitor for the 3.3V output.
- PMIC LM3409 (ADJ):** The adjustable output pin.
- LED1 CATHODE, LED2 CATHODE, LED3 CATHODE:** Cathode pins for the three LED channels.
- LED1 EN, LED2 EN, LED3 EN:** Enable pins for the three LED channels.
- LED1, LED2, LED3:** The three LEDs being driven.
- LED COMMON ANODE:** The common anode connection for the LEDs.
- PMIC SEN1:** Sense pin for the PMIC.





Fan Outputs: 5V, 1A max
(total both fans)

DLP5534Q2EVM Kit Items (Cables, other PCBs)

2 PCBs PCB, DLP5534Q2EVM Controller DLP5534	2 CBL1 Flex, OpenLDI S010119	2 CBL5 Cable Assy, Driver to Controller Power CBL016-003	2 CBL9 Cable Assy, LED3 CBL016-007
2 CBL2 FEC 0.57, 20 Circuit, 153mm 151660215	2 CBL6 Cable Assy, Driver Input Power CBL016-004	2 CBL10 Cable Assy, Fan PWM CBL016-008	2 CBL11 Cable Assy, Fan PWM CBL016-008
2 CBL3 Cable Assy, SPI Channel CBL016-001	2 CBL7 Cable Assy, LED1 CBL016-005	2 CBL12 Cable Assy, Fan PWM CBL016-008	2 CBL13 Cable Assy, Fan PWM CBL016-008
2 CBL4 Cable Assy, Host DC, INTZ, PROJ, OBserve Assy, LED2 CBL016-002	2 CBL8 Cable Assy, LED1 CBL016-005	2 CBL14 Cable Assy, Fan PWM CBL016-008	2 CBL15 Cable Assy, Fan PWM CBL016-008