

DESCRIPTION

Demonstration circuit 665 is a Hot Swap™ controller designed for a dual +/- 12V system. This demo board is optimized for 2A maximum operating current. The LT4220's circuit breaker is immune from transient currents arising from load dump, voltage spikes and input steps. The board demonstrates tracking, current limiting and auto-retry features. Gerber files for this circuit board are available from Linear Technology.

Feature Summary:

On-Board input and output clamps

Jumpers to select auto-retry, tracking or remote sensing.

Specifications

Vin+ operating range: 12V

Vin- operating range: -12V

UVLO: +/-10V off, +/-10.4V on

Programmed inrush current (470µF): 470mA

Design files for this circuit board are available. Call the LTC factory.

QUICK START PROCEDURE

The DC665 is designed for bench testing evaluation or direct testing by substitution into an existing circuit board.

Operating Modes

Jumper positions can be changed to demonstrate tracking enabled or disabled, auto-retry enabled or disabled, and remote or local sensing.

External and Internal Connections

- 1) Connect the board jumpers to select the desired configuration as per Table 1.
- 2) The board is ready for Hot Swapping.

TABLE 1: Internal Demo Board Jumper Functions

Jumper Settings	
J1	Enables or disables auto-retry
J2	Enables or disables Tracking
J3, J4	Selects local or remote sensing

QUICK START GUIDE FOR DEMONSTRATION CIRCUIT 665 +/-12V 2A HOT SWAP CONTROLLER WITH EXTERNAL FETS

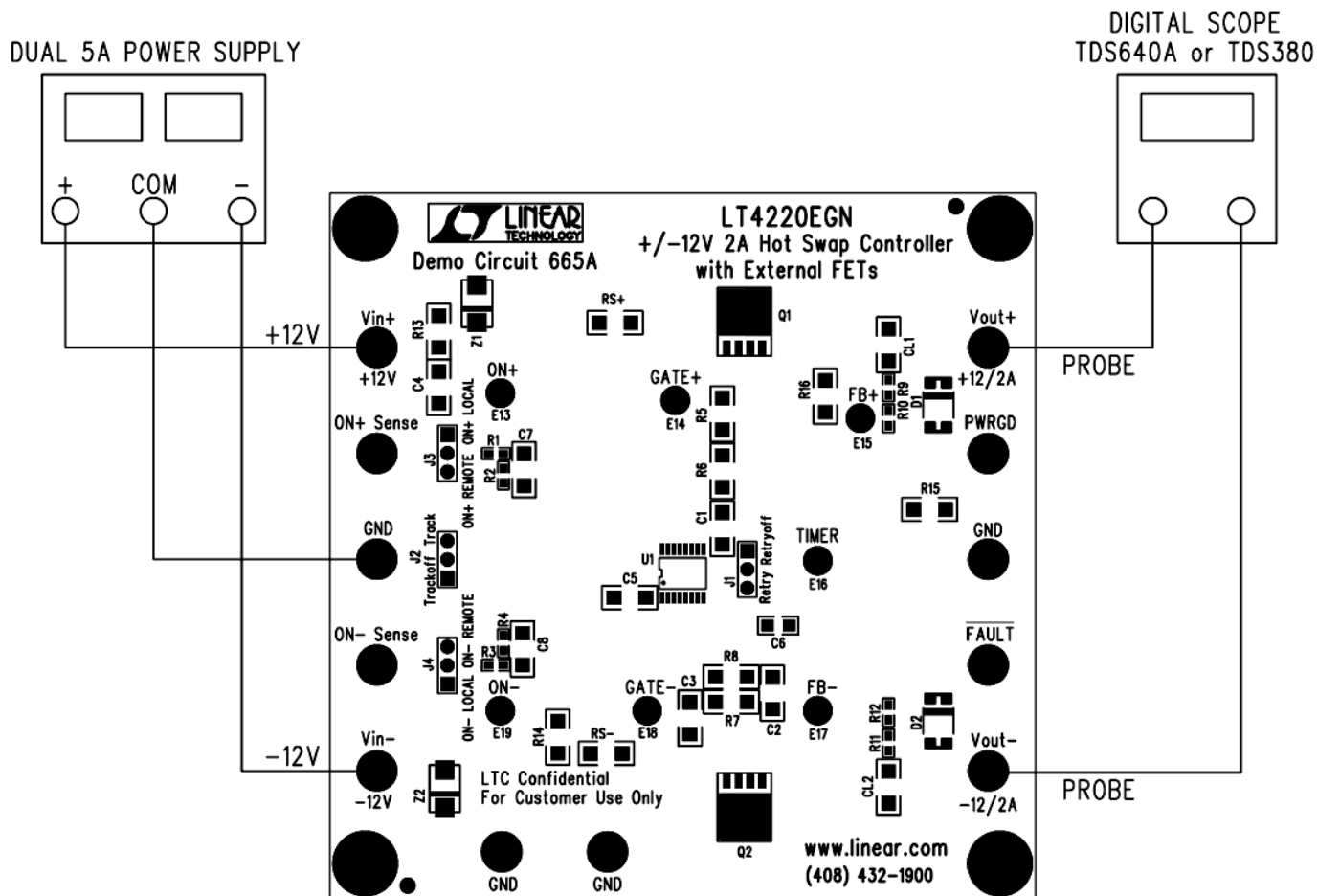
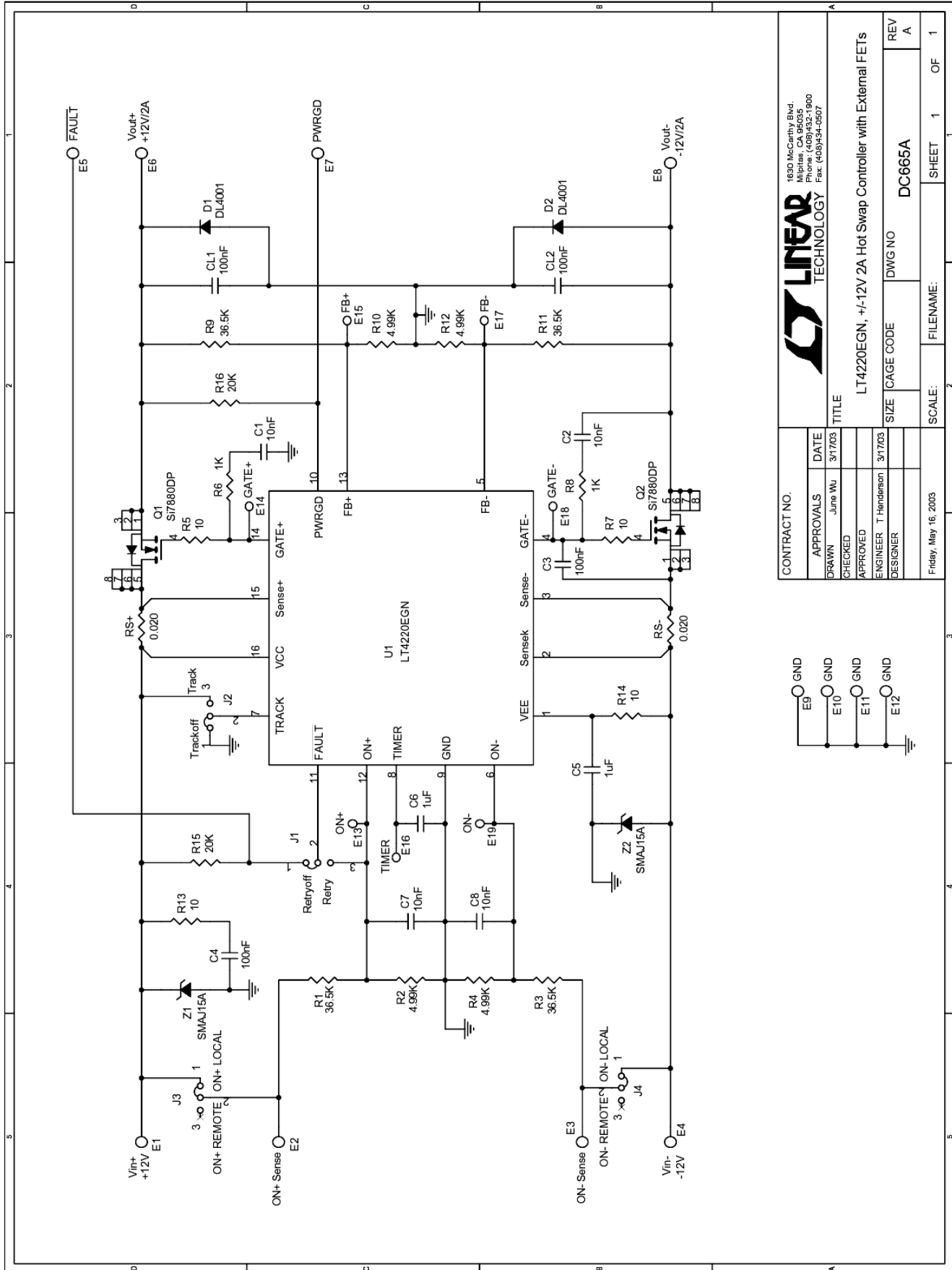


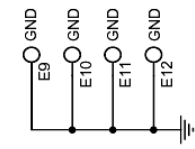
Figure 1. Proper Measurement Equipment Setup

QUICK START GUIDE FOR DEMONSTRATION CIRCUIT 665

+/-12V 2A HOT SWAP CONTROLLER WITH EXTERNAL FETS



CONTRACT NO.		DATE	
APPROVALS	June Wu	3/17/03	
DRAWN	June Wu	3/17/03	
CHECKED			
APPROVED			
ENGINEER	T. Henderson	3/17/03	
DESIGNER			
TITLE		LT4220EGN, +/-12V 2A Hot Swap Controller with External FETs	
SIZE	CAGE CODE	DWG NO	REV
		DC665A	A
SCALE:	FILENAME:	SHEET	OF
Friday, May 16, 2003		1	1



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