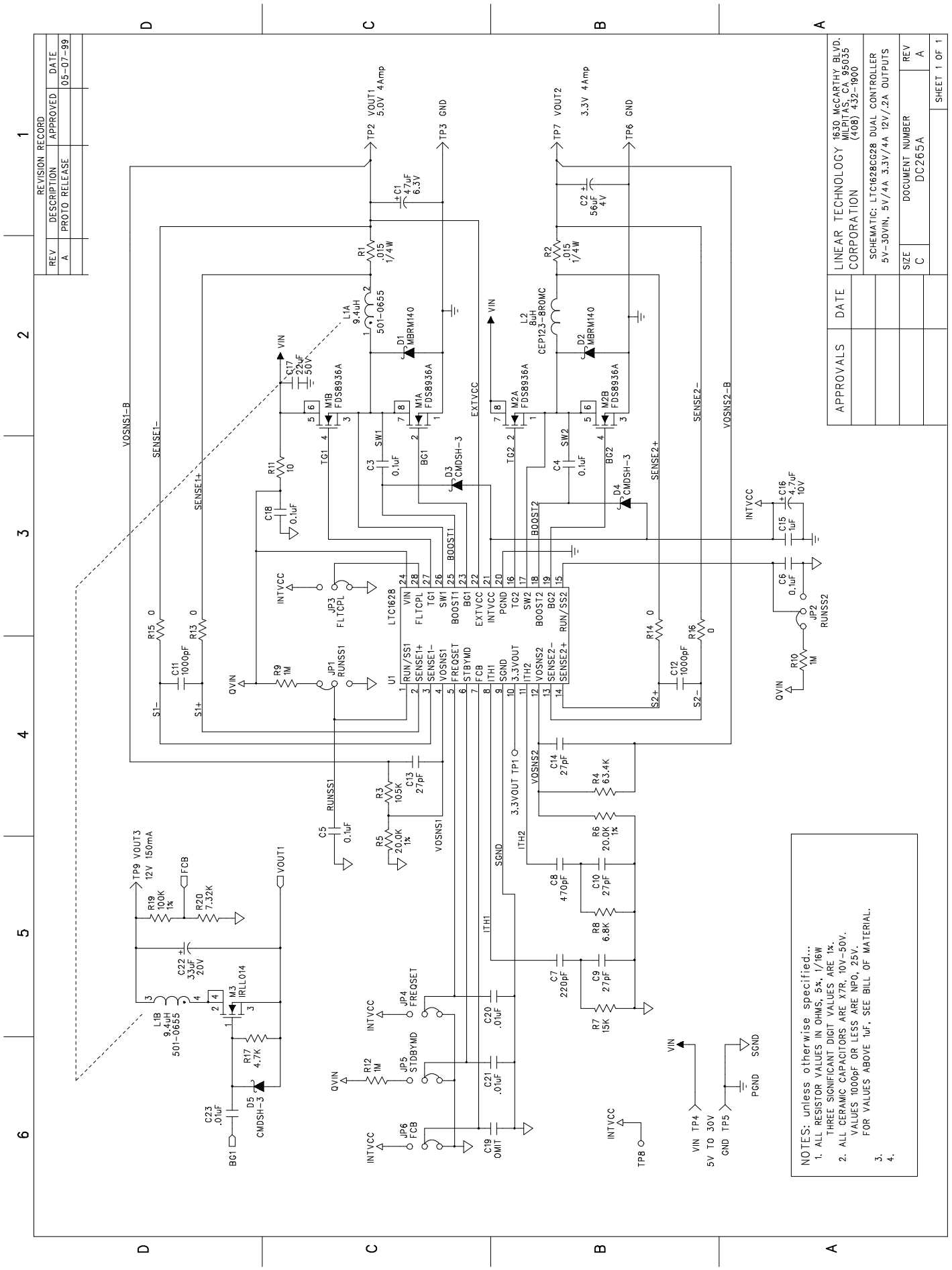
REVISION RECORD
REV | DESCRIPTION | APPROVED | DATE
A | PROTO RELEASE | | 05-07-99
APPROVALS | DATE
LINEAR TECHNOLOGY CORPORATION 1630 McCARTHY BLVD. MILPITAS, CA 95035 (408) 432-1900
SCHEMATIC: LTC1628CG28 DUAL CONTROLLER 5V-30VIN, 5V/4A 3.3V/4A 12V/.2A OUTPUTS
SIZE C | DOCUMENT NUMBER DC265A | REV A
SHEET 1 OF 1
NOTES: unless otherwise specified...
1. ALL RESISTOR VALUES IN OHMS, 5%, 1/16W
THREE SIGNIFICANT DIGIT VALUES ARE 1%.
2. ALL CERAMIC CAPACITORS ARE X7R, 10V-50V.
VALUES 1000pF OR LESS ARE NPO, 25V.
FOR VALUES ABOVE 1uF, SEE BILL OF MATERIAL.
3.
4.
LTC1628
U1
TP2 VOUT1 5.0V 4Amp
TP7 VOUT2 3.3V 4Amp
TP9 VOUT3 12V 150mA
TP3 GND
TP6 GND
TP4 VIN 5V TO 30V
TP5 GND
TP8
VIN
INTVCC
EXTVCC
QVIN
SGND
PGND
3.3VOUT TP1
VOSNS1
VOSNS2
VOSNS1-B
VOSNS2-B
SENSE1-
SENSE1+
SENSE2-
SENSE2+
S1-
S1+
S2-
S2+
L1A 9.4uH 501-0655
L1B 9.4uH 501-0655
L2 8uH CEP123-8R0MC
D1 MBRM140
D2 MBRM140
D3 CMDSH-3
D4 CMDSH-3
D5 CMDSH-3
M1A FDS8936A
M1B FDS8936A
M2A FDS8936A
M2B FDS8936A
M3 IRLL014
JP1 RUNSS1
JP2 RUNSS2
JP3 FLTCPL
JP4 FREQSET
JP5 STDBYMD
JP6 FCB
R1 .015 1/4W
R2 .015 1/4W
R3 105K
R4 63.4K
R5 20.0K 1%
R6 20.0K 1%
R7 15K
R8 6.8K
R9 1M
R10 1M
R11 10
R12 1M
R13 0
R14 0
R15 0
R16 0
R17 4.7K
R19 100K 1%
R20 7.32K
C1 47uF 6.3V
C2 56uF 4V
C3 0.1uF
C4 0.1uF
C5 0.1uF
C6 0.1uF
C7 220pF
C8 470pF
C9 27pF
C10 27pF
C11 1000pF
C12 1000pF
C13 27pF
C14 27pF
C15 1uF
C16 4.7uF 10V
C17 22uF 50V
C18 0.1uF
C19 OMIT
C20 .01uF
C21 .01uF
C22 33uF 20V
C23 .01uF