

5

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SIZE  
C

SC2048

REV  
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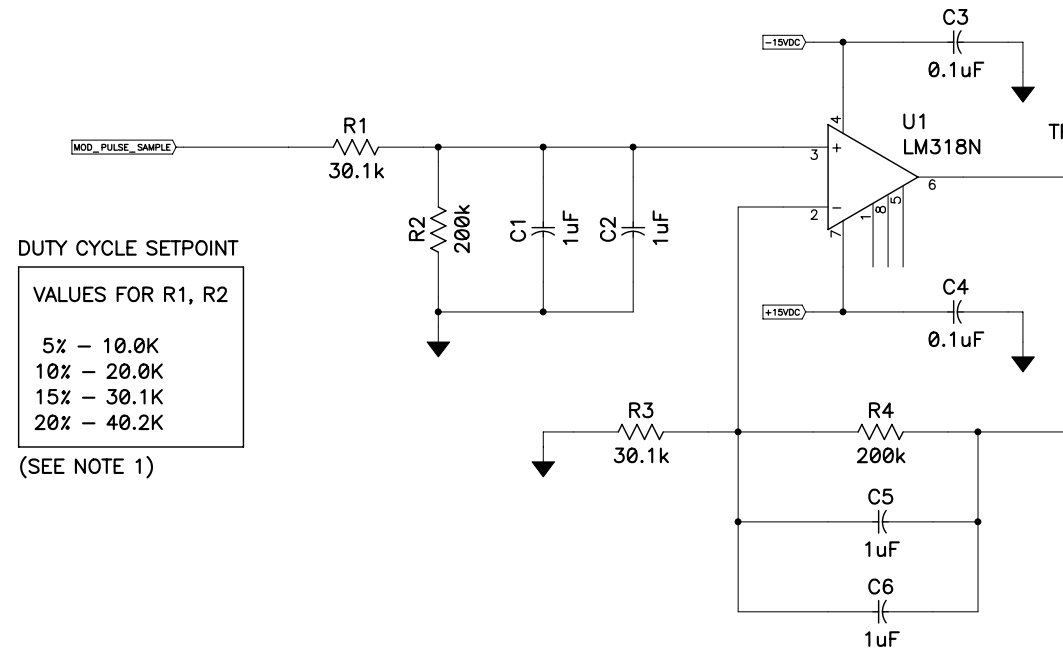
1

EASTERN VOLTAGE RESEARCH PROPRIETARY INFORMATION

REVISIONS

LTR	DESCRIPTION	ZONE	ENG	DWG	DATE	APPROVED
-	INITIAL RELEASE		DHM			

MAX DUTY CYCLE DETECTION

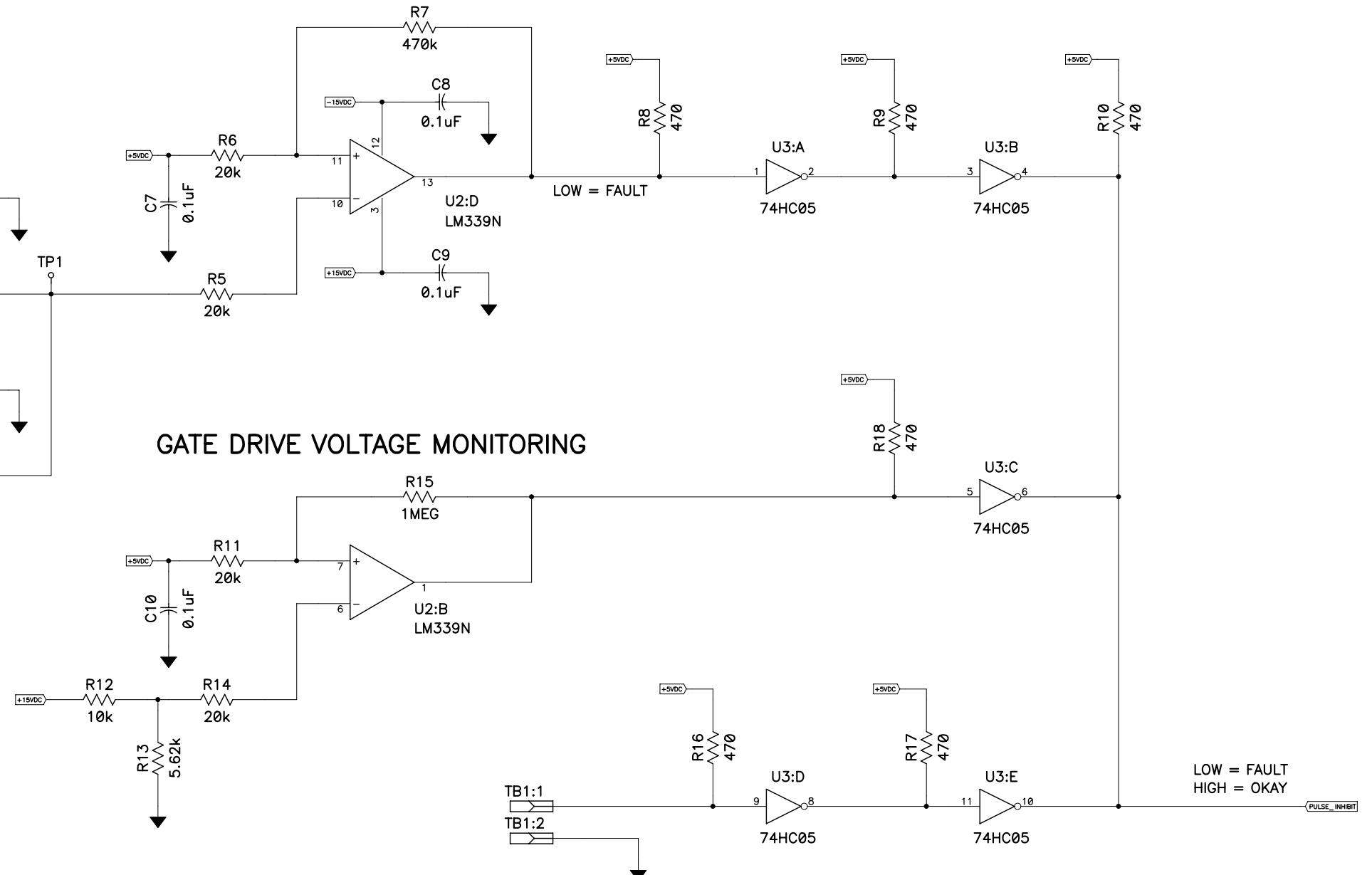


DUTY CYCLE SETPOINT  
VALUES FOR R1, R2

5% - 10.0K
10% - 20.0K
15% - 30.1K
20% - 40.2K

(SEE NOTE 1)

GATE DRIVE VOLTAGE MONITORING



GATE DRIVE SETPOINT  
VALUES FOR R1

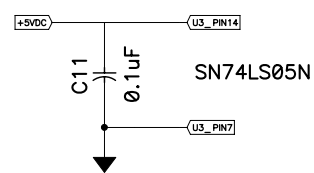
14.5V - 5.36K
14.0V - 5.62K
13.5V - 5.90K
13.0V - 6.34K
12.5V - 6.81K
12.0V - 7.15K
11.0V - 8.45K
10.0V - 10.0K

(SEE NOTE 1)

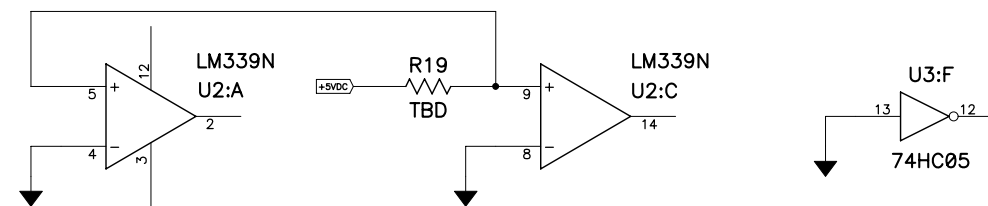
EXTERNAL PULSE INHIBIT

OPEN = OKAY  
CLOSED = PULSE INHIBIT

DIGITAL POWER CONNECTIONS



NOTES:  
1.



TITLE ADVANCED PSSTC DRIVER BOARD EASTERN VOLTAGE RESEARCH FD/FI CIRCUITRY					
SIZE C	CAGE CODE IDENT NO.	DWG NO. SC2048	REV -		
SCALE NTS	ACT WT	CALC WT	SHEET 1 OF 4		
ACCEL CAD file: SC2048					

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SC2048

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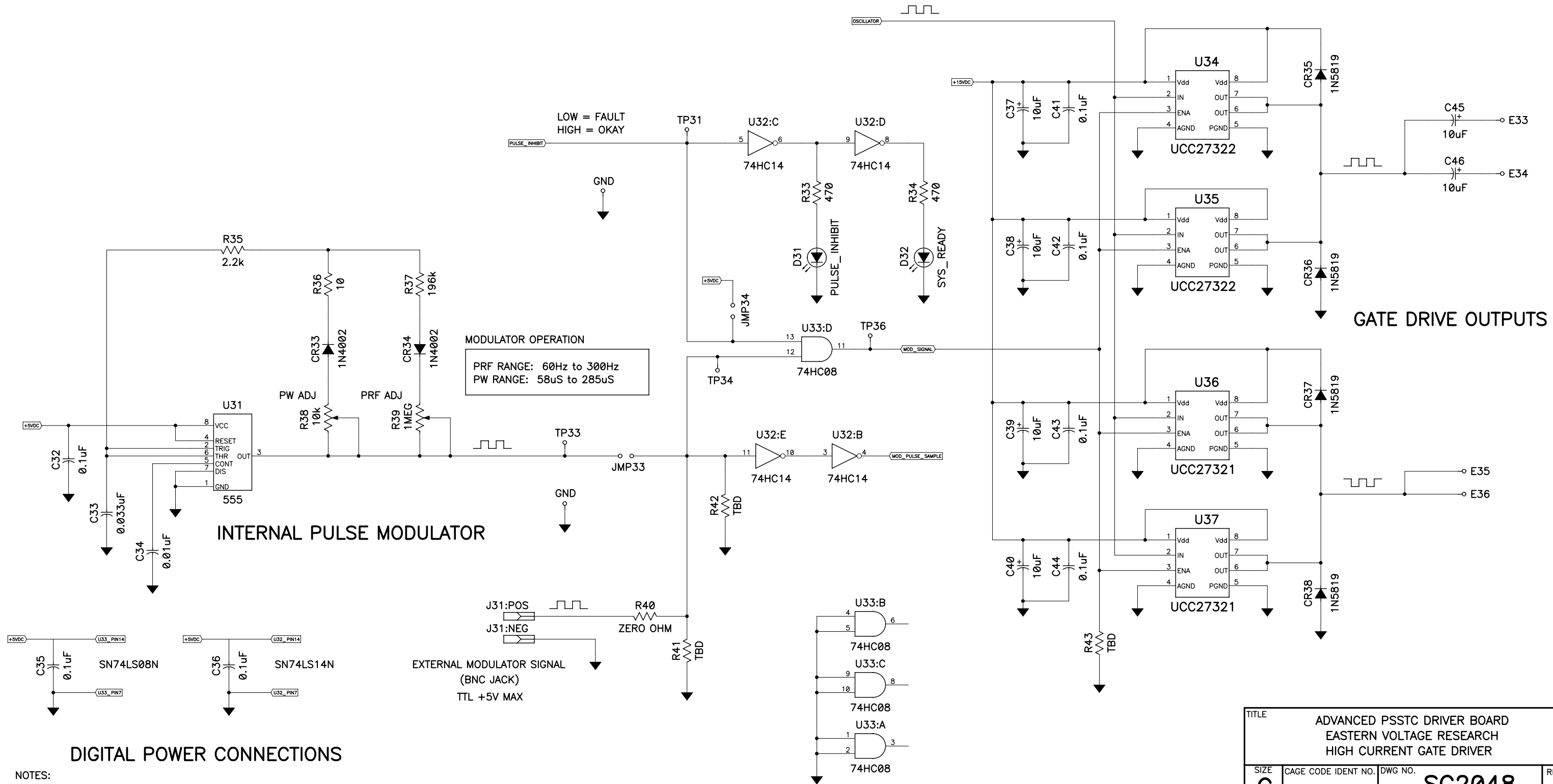
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EASTERN VOLTAGE RESEARCH PROPRIETARY INFORMATION

REVISIONS

LTR	DESCRIPTION	ZONE	ENG	DWG	DATE	APPROVED
-	INITIAL RELEASE		DHM			



NOTES:

- 1. 1N60 GERMANIUM DIODES CAN BE SUBSTITUTED FOR THE 1N90'S.

TITLE ADVANCED PSSTC DRIVER BOARD EASTERN VOLTAGE RESEARCH HIGH CURRENT GATE DRIVER			
SIZE C	CAGE CODE IDENT NO.	DWG NO. SC2048	REV -
SCALE NTS	ACT WT	CALC WT	SHEET 2 OF 4
ACCEL CAD file: SC2048			

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SIZE  
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SC2048

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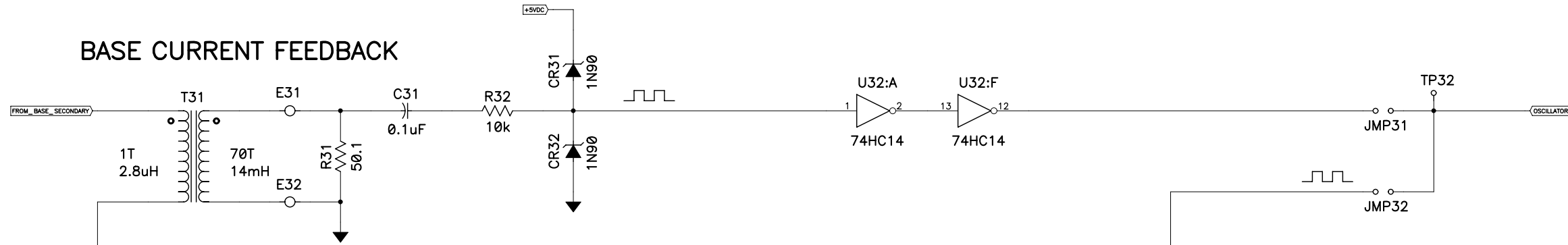
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EASTERN VOLTAGE RESEARCH PROPRIETARY INFORMATION

REVISIONS

LTR	DESCRIPTION	ZONE	ENG	DWG	DATE	APPROVED
-	INITIAL RELEASE		DHM			

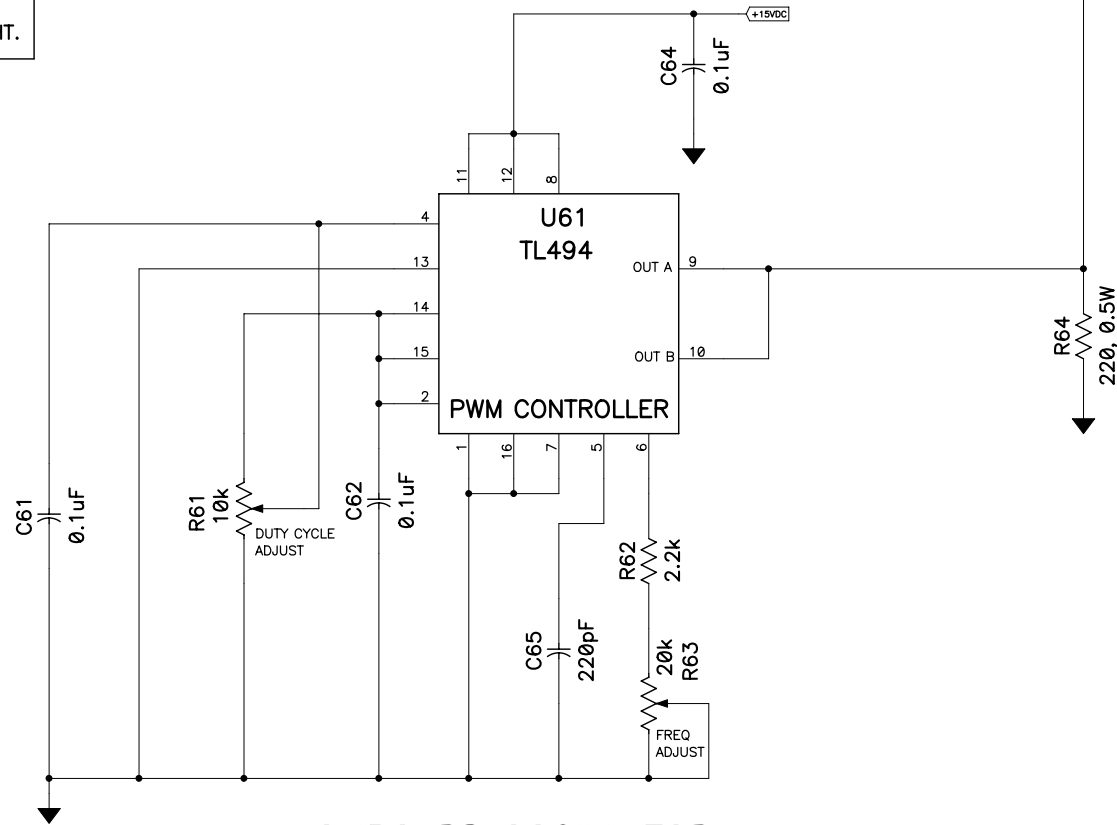
BASE CURRENT FEEDBACK



CURRENT TRANSFORMER (T31)

FAIR-RITE 5978006401  
 CORE MATERIAL TYPE 78  
 PRIMARY WINDING 1T  
 SECONDARY WINDINGS 70T  
 AL = 2885nH  
 L = AL x N^2  
 .870" O.D x .540" I.D. x .500" HT.

ONBOARD OSCILLATOR



NOTES:

1.

TITLE ADVANCED PSSTC DRIVER BOARD EASTERN VOLTAGE RESEARCH OSCILLATOR					
SIZE C	CAGE CODE IDENT NO.	DWG NO. SC2048	REV -		
SCALE NTS	ACT WT	CALC WT	SHEET 3 OF 4		
			ACCEL CAD file: SC2048		

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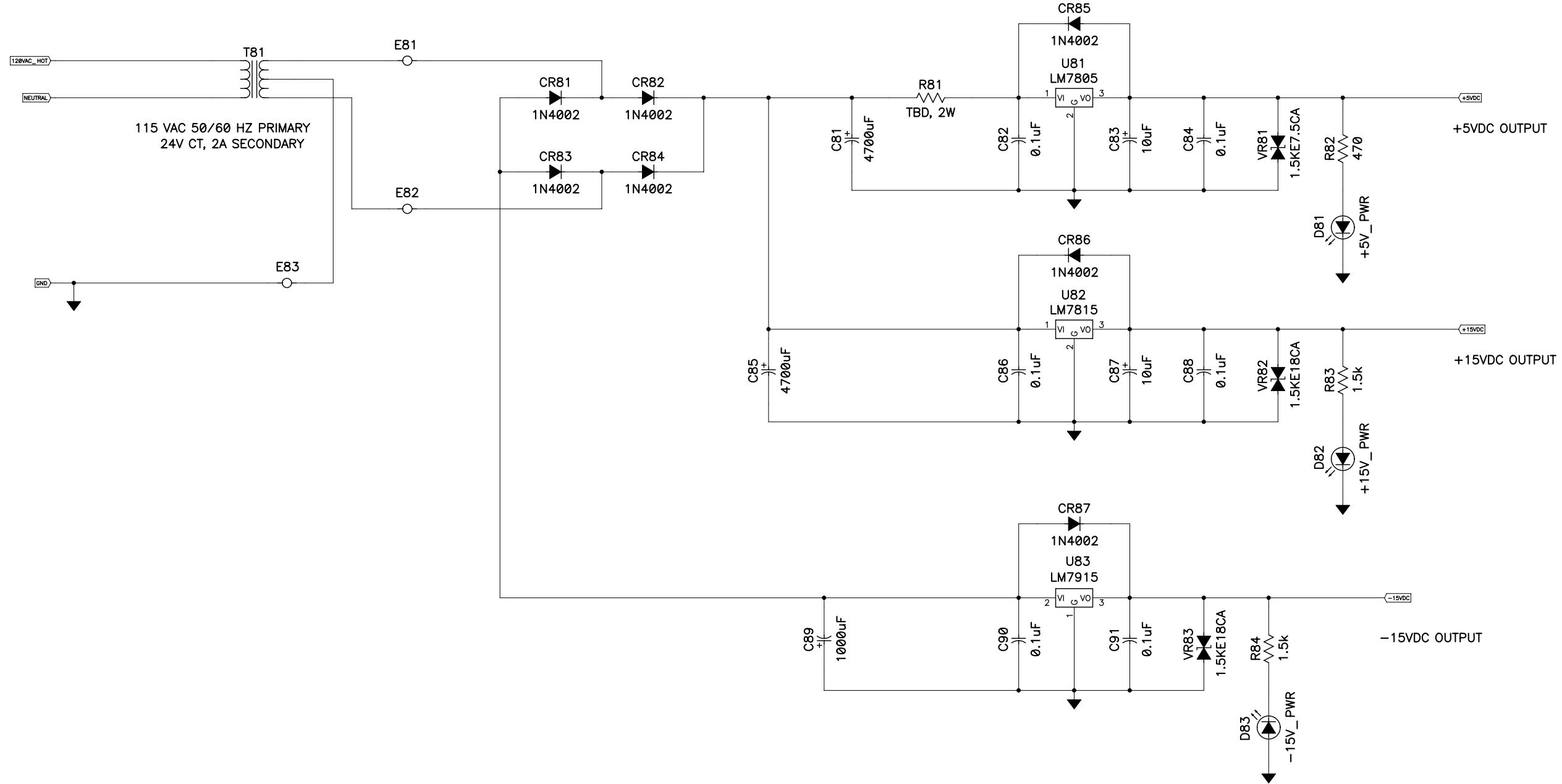
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EASTERN VOLTAGE RESEARCH PROPRIETARY INFORMATION

REVISIONS

LTR	DESCRIPTION	ZONE	ENG	DWG	DATE	APPROVED
-	INITIAL RELEASE		DHM			



NOTES:  
1.

LOW VOLTAGE POWER SUPPLY

TITLE ADVANCED PSSTC DRIVER BOARD EASTERN VOLTAGE RESEARCH LOW VOLTAGE POWER SUPPLY					
SIZE C	CAGE CODE IDENT NO.	DWG NO. SC2048	REV -		
SCALE NTS	ACT WT	CALC WT	SHEET 4 OF 4		
			ACCEL CAD file: SC2048		

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ACCEL CAD file: SC2048