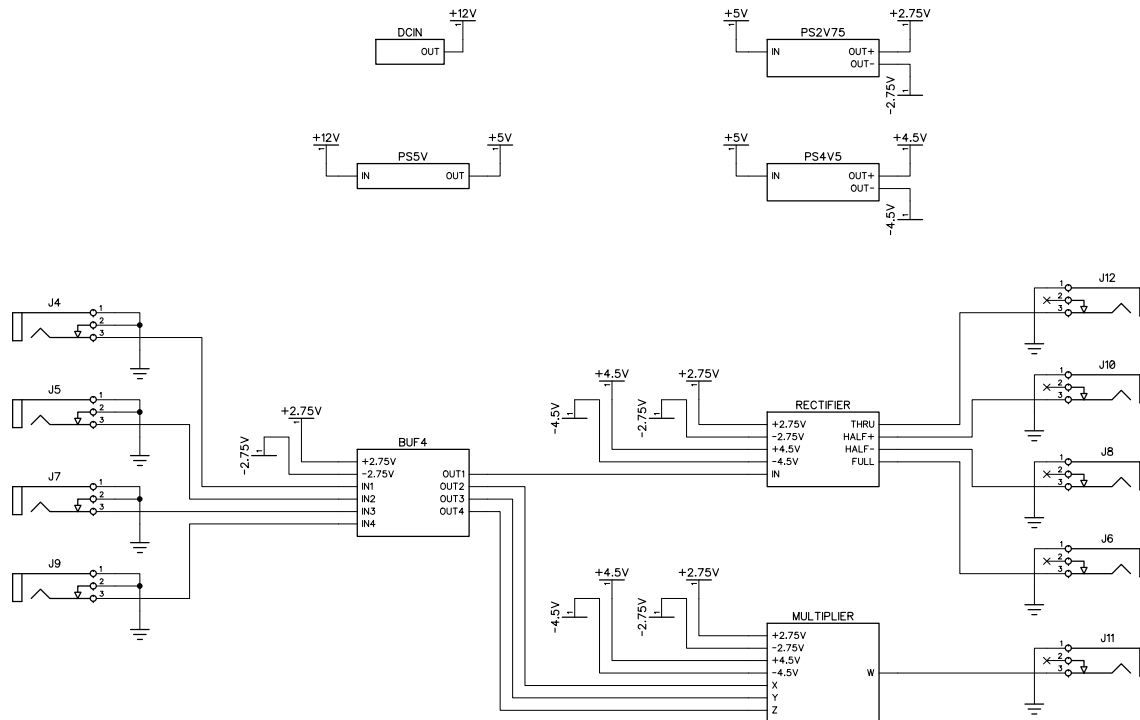
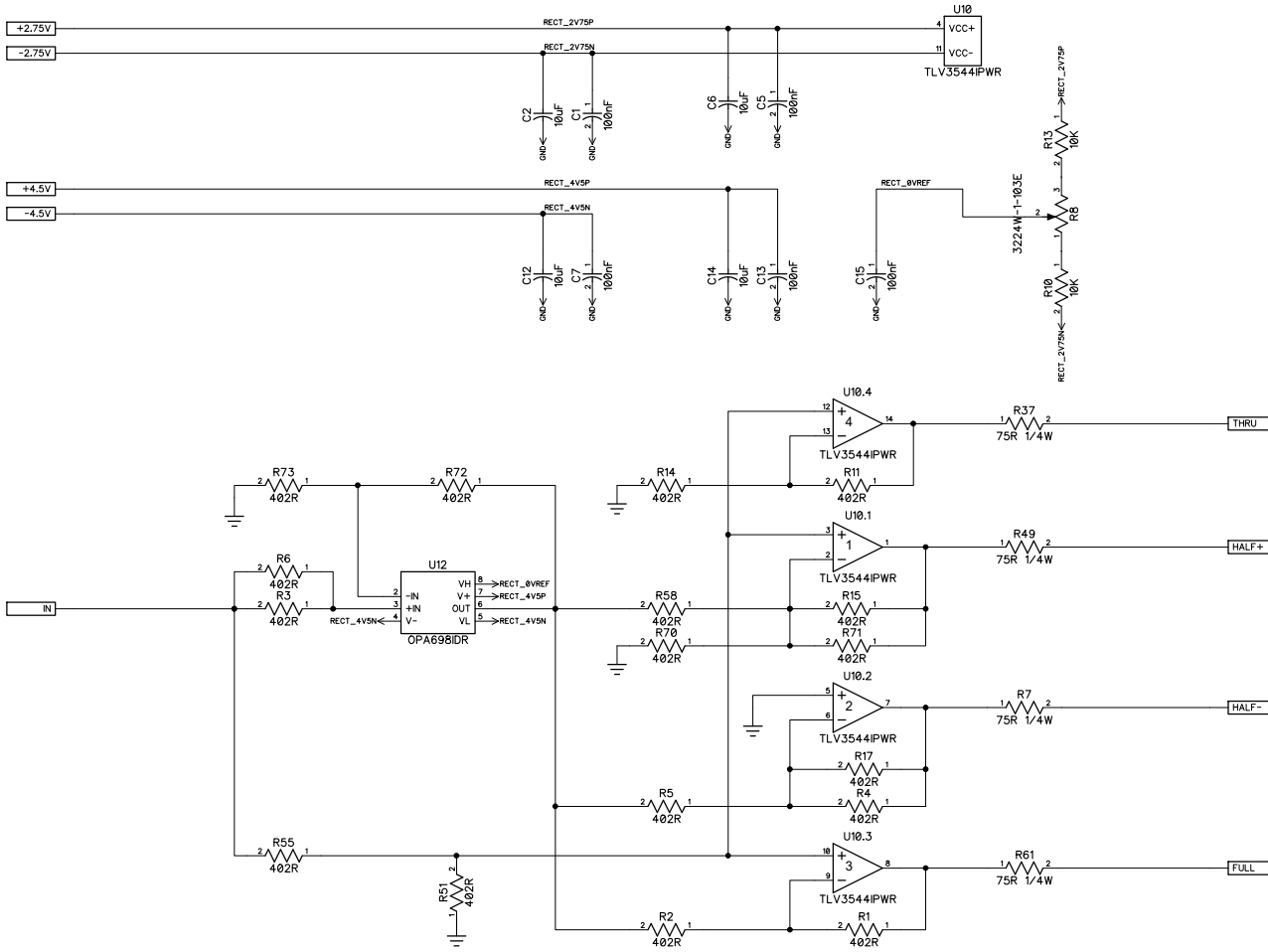


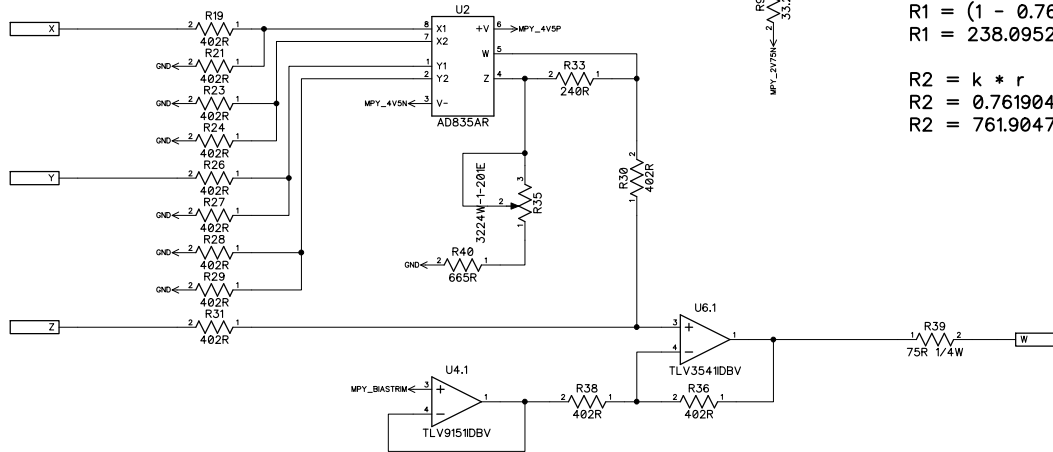
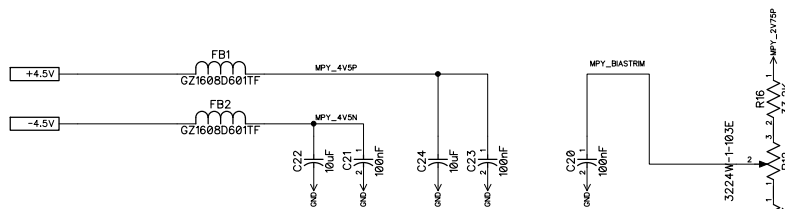
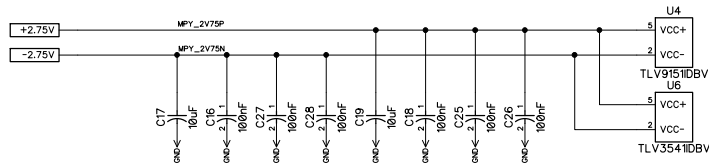
LZX INDUSTRIES	
PRM	
PROGRAMMABLE RECTIFIER & MULTIPLIER	
4HP EURORACK MODULE	
DESIGN BY LARS LARSEN	
PCB BY JONAH LANGE	
REVD	FEB 2025
PAGE 1/8	BLOCK DESIGN





LZX INDUSTRIES	
PRM	
PROGRAMMABLE RECTIFIER & MULTIPLIER	
4HP EURORACK MODULE	
DESIGN BY LARS LARSEN	
PCB BY JONAH LANGE	
REVD	FEB 2025
PAGE 2/8	RECTIFIER

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4HP EURORACK MODULE	
DESIGN BY LARS LARSEN	
PCB BY JONAH LANGE	
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PAGE 3/8	MULTIPLIER



$$U' = (1 - k) * 1.05$$

$$k = 0.7619047619047619$$

$$U' = (1 - 0.7619047619047619) * 1.05$$

$$U' = 0.25$$

$$r = 1000$$

$$R1 = (1 - k) * r$$

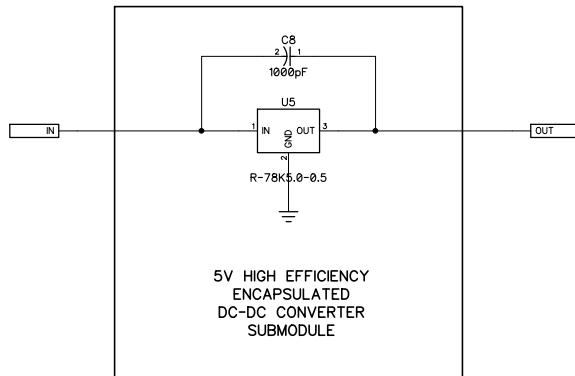
$$R1 = (1 - 0.7619047619047619) * 1000$$

$$R1 = 238.0952380952381$$

$$R2 = k * r$$

$$R2 = 0.7619047619047619 * 1000$$

$$R2 = 761.9047619047619$$



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PRM	
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PAGE 4/8	+5V PSU

NEGATIVE FEEDBACK RESISTOR CALCULATION  
 $-1.22 * (R40 + R42) / R42 = VOUT$   
-1.

