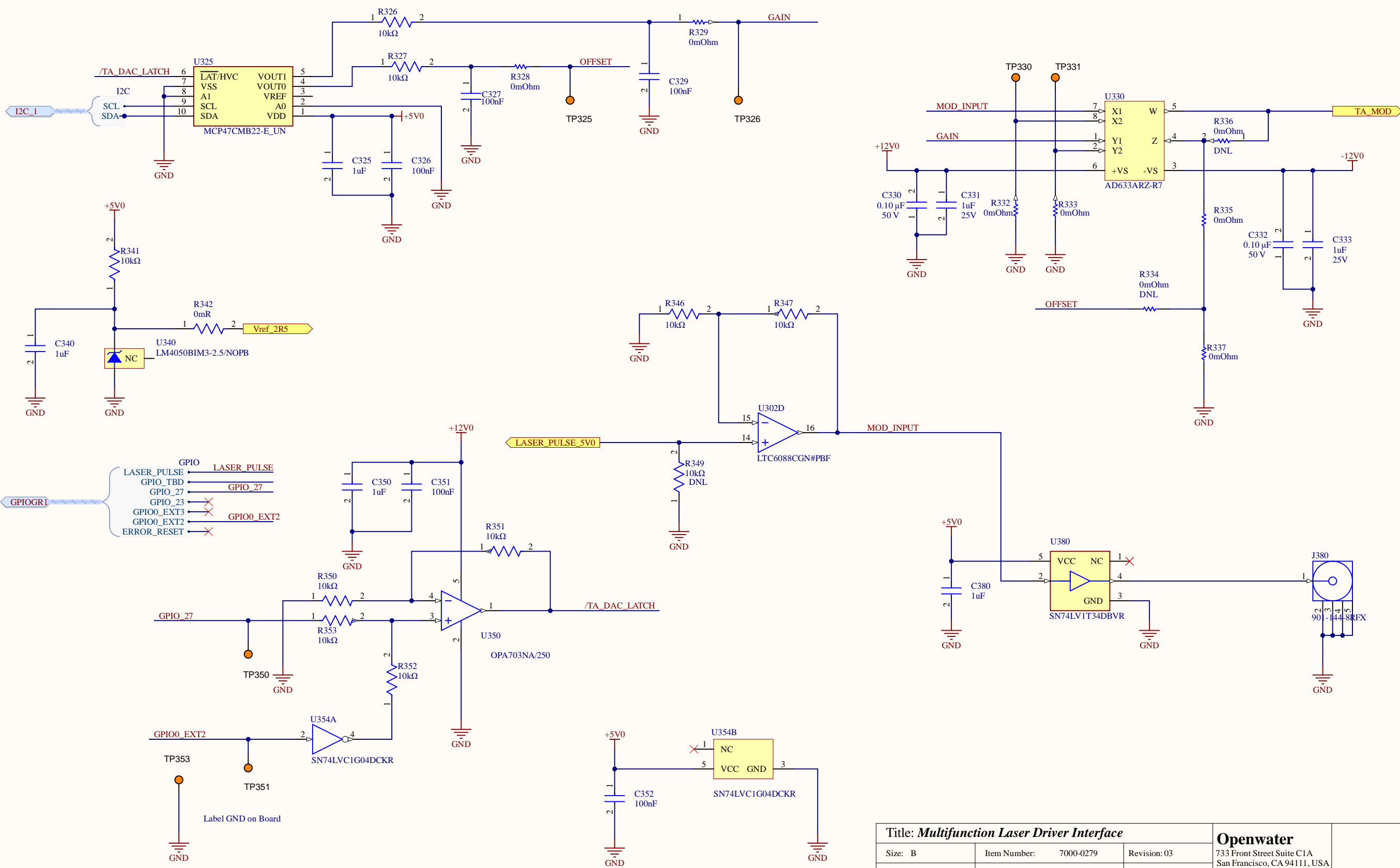
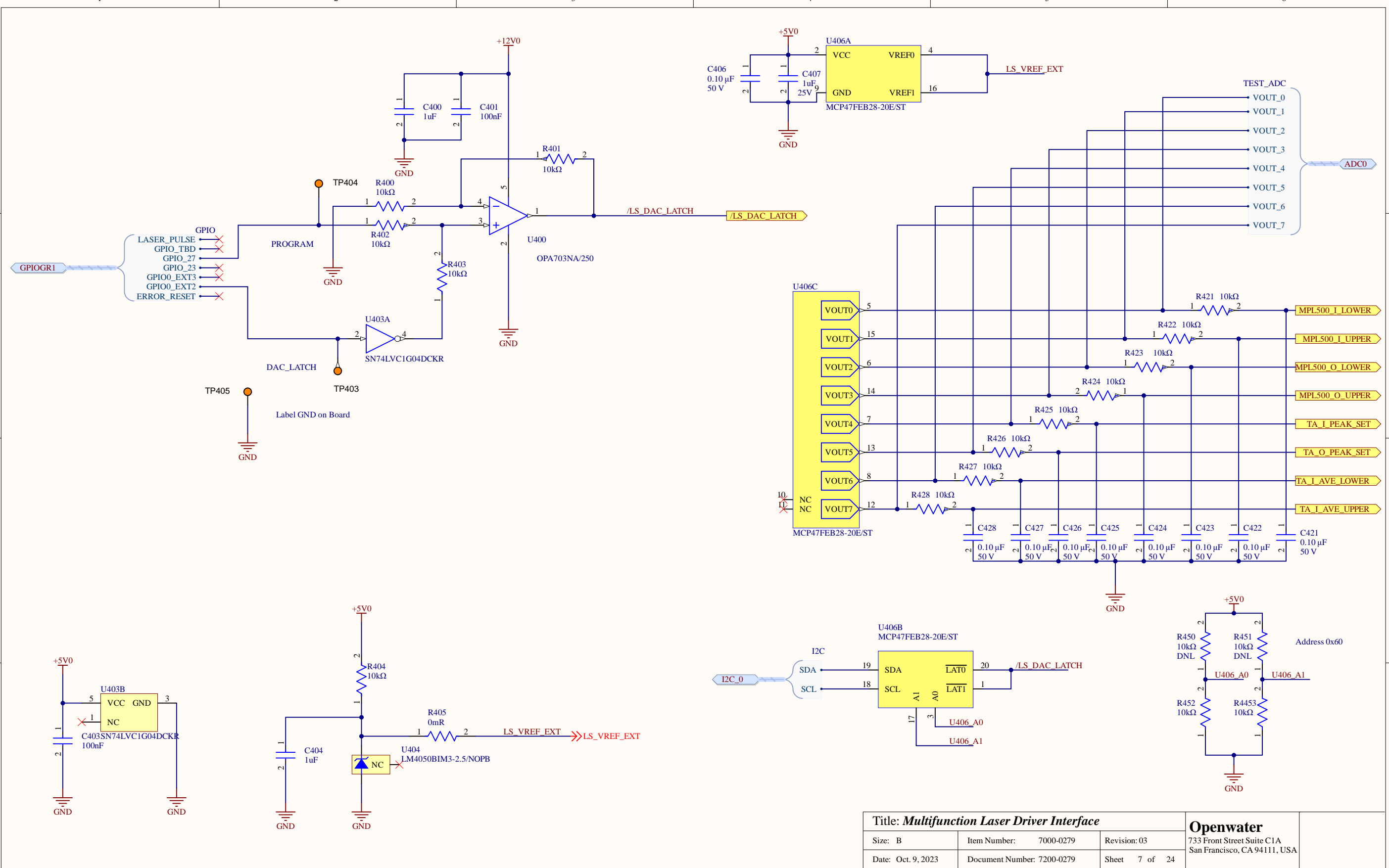


Title: Multifunction Laser Driver Interface			Openwater 733 Front Street Suite C1A San Francisco, CA 94111, USA	
Size: B	Item Number: 7000-0279	Revision: 03		
Date: Oct. 9, 2023	Document Number: 7200-0279	Sheet 4 of 24		





Title: **Multifunction Laser Driver Interface**

Size: B

Item Number: 7000-0279

Revision: 03

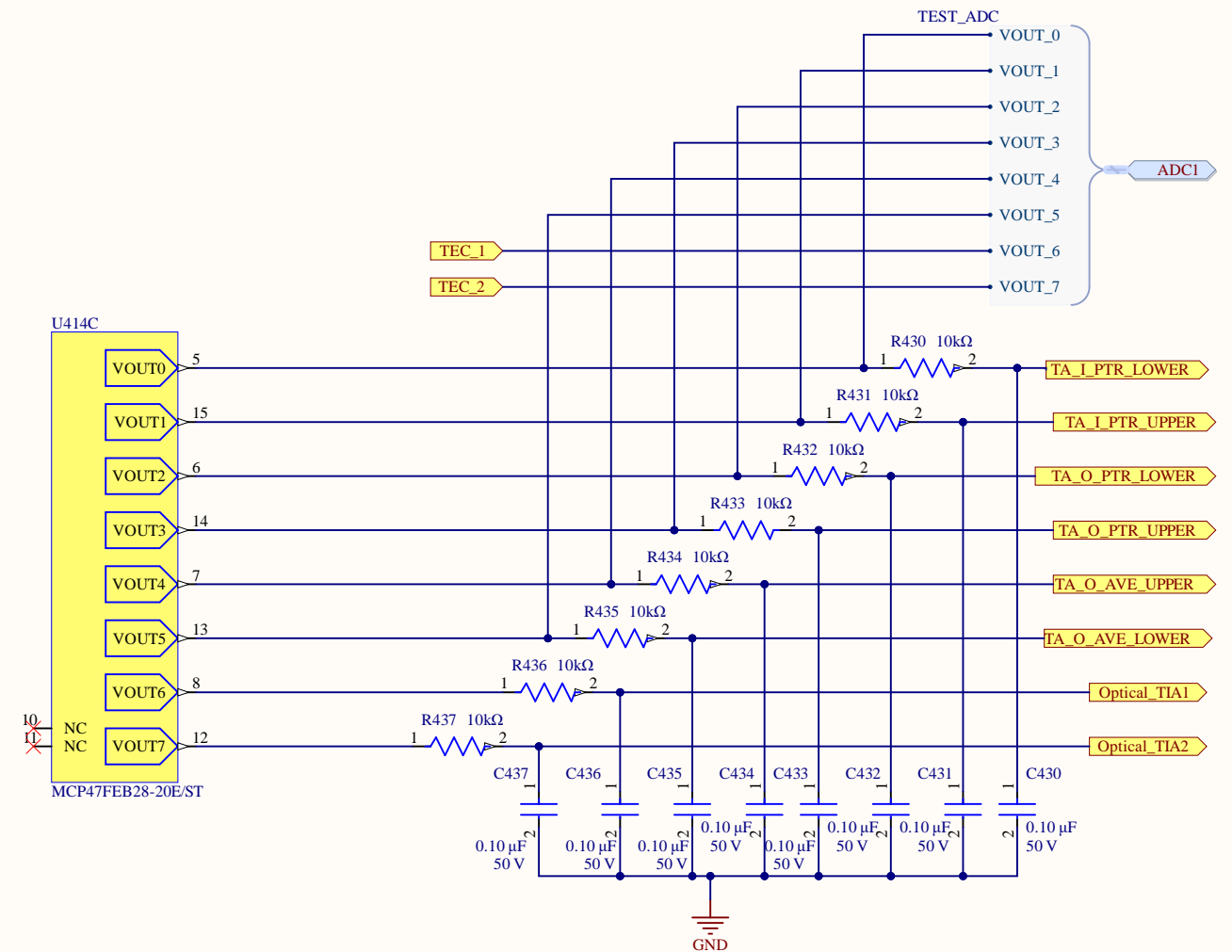
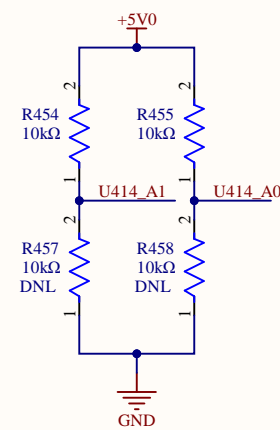
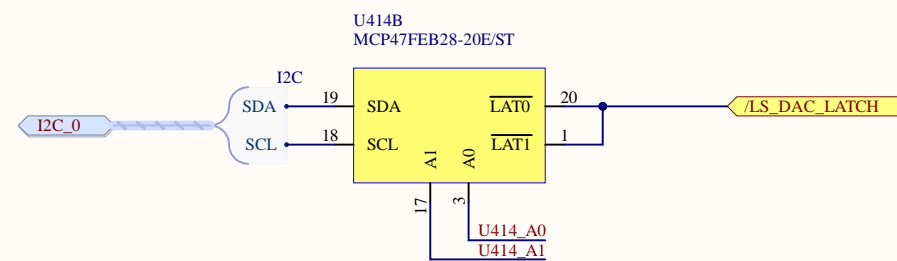
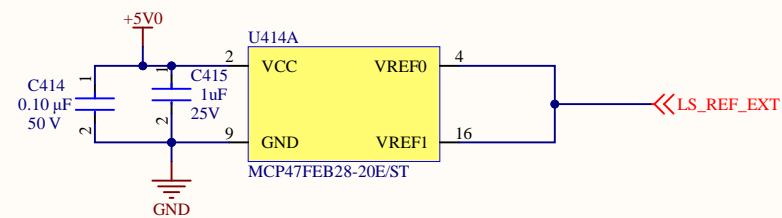
Date: Oct. 9, 2023

Document Number: 7200-0279

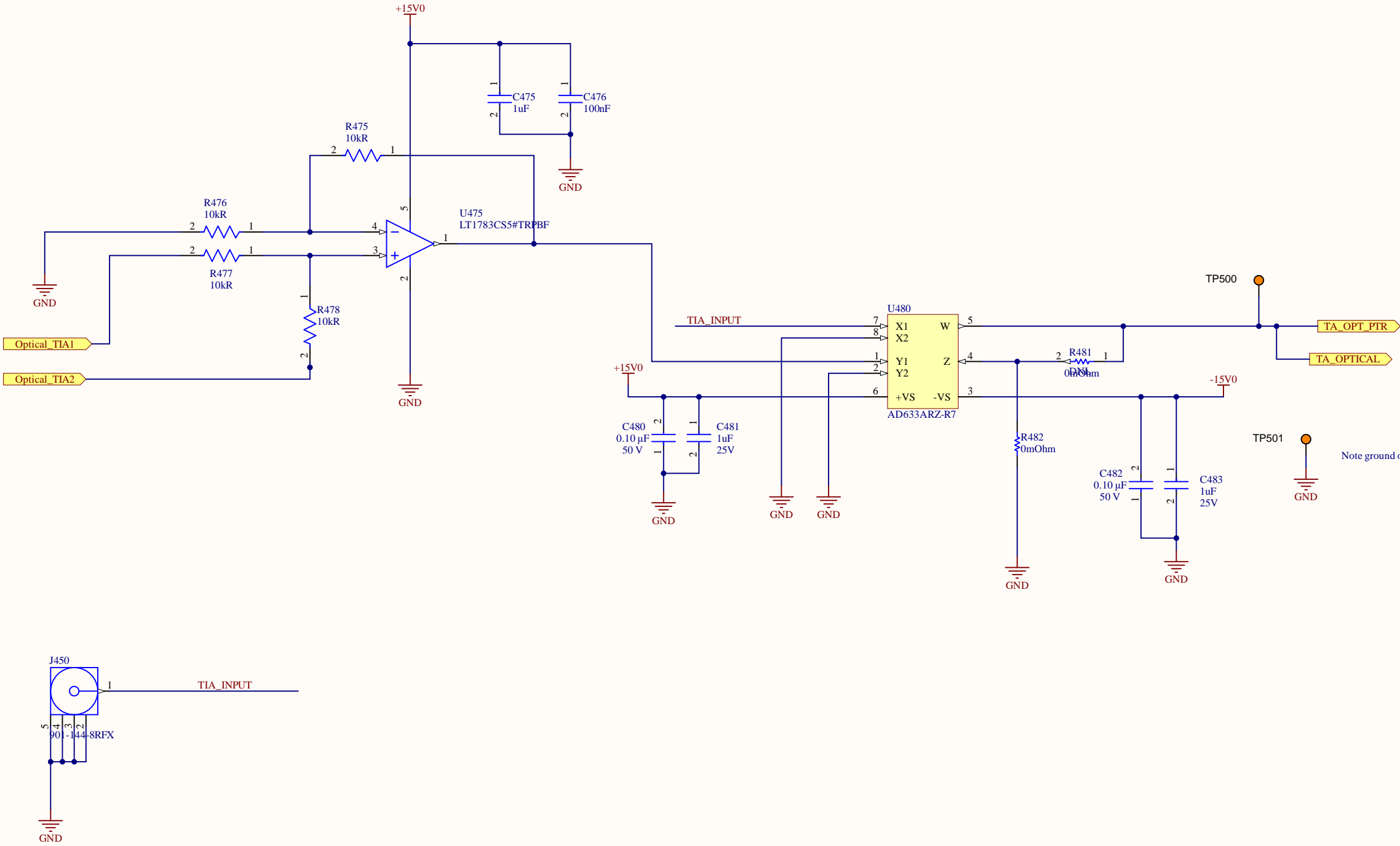
Sheet 7 of 24

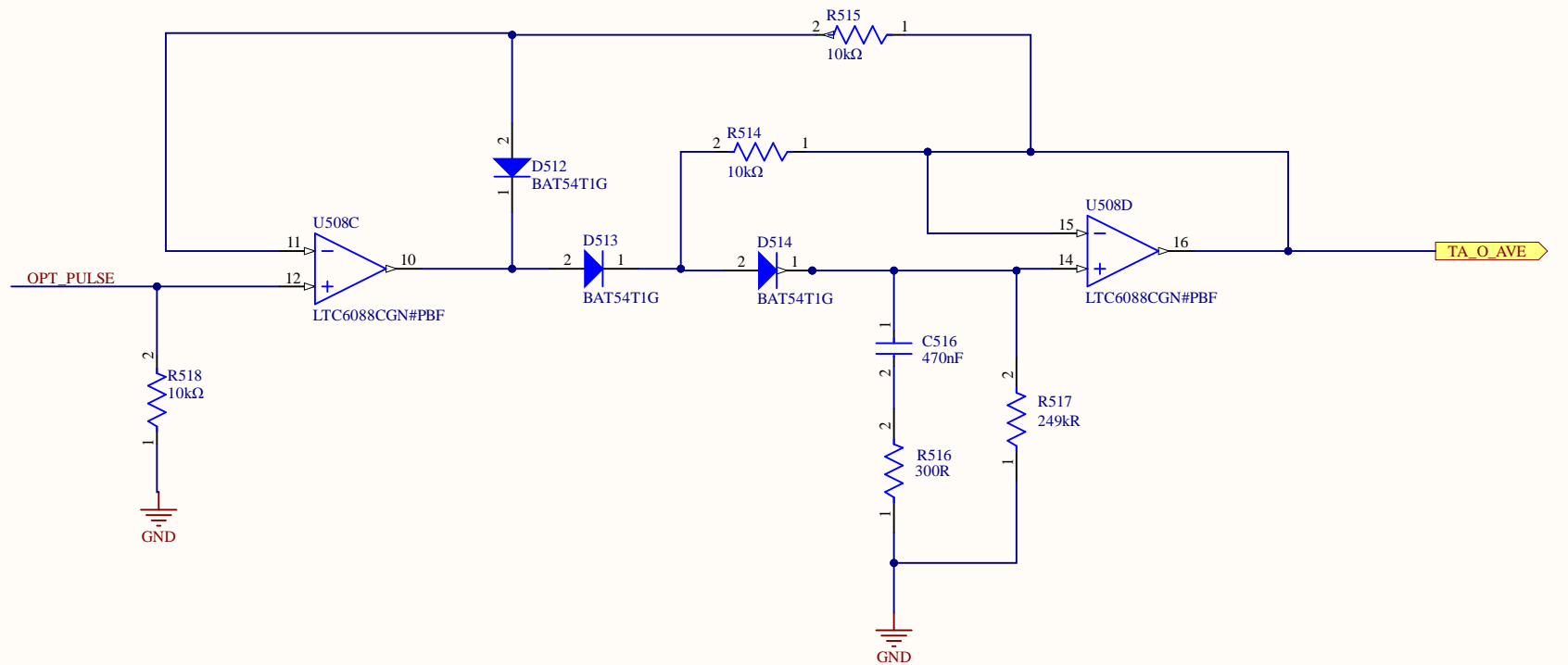
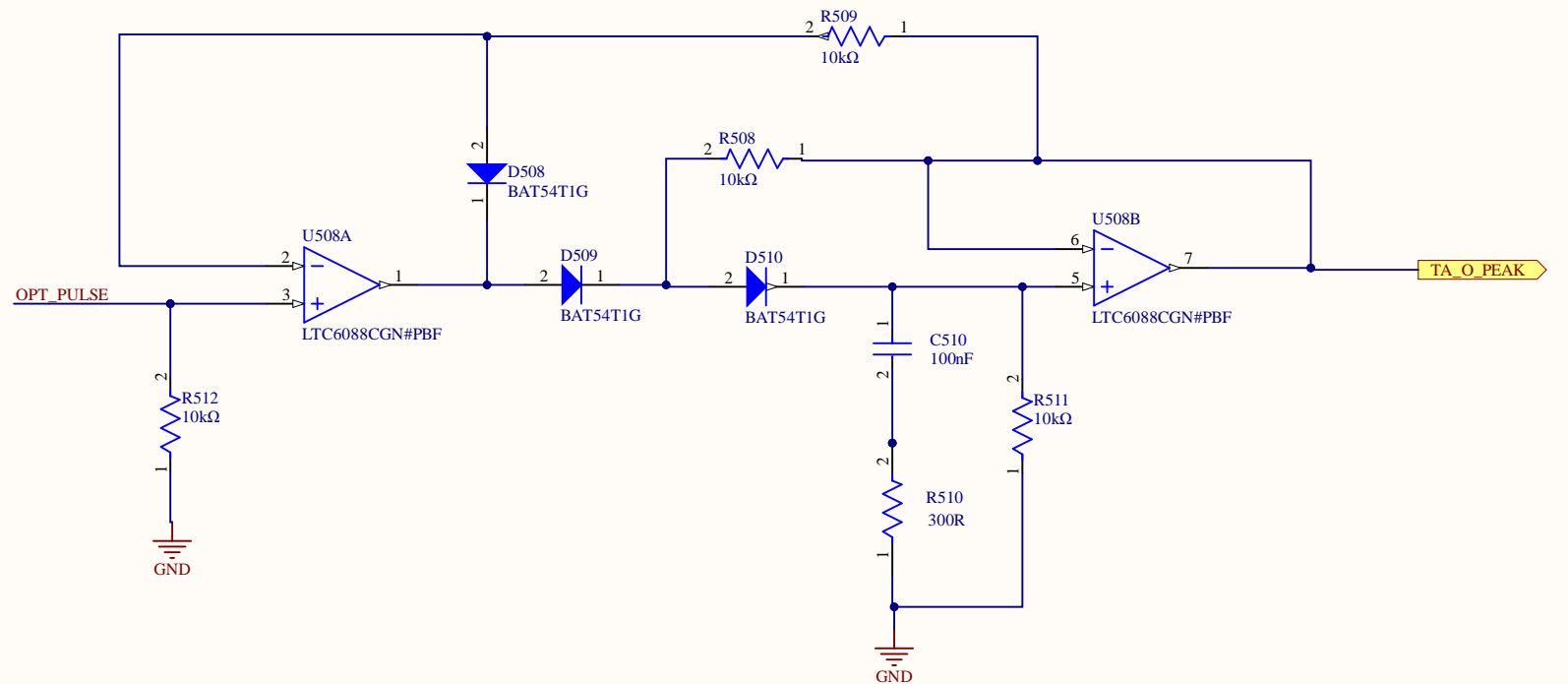
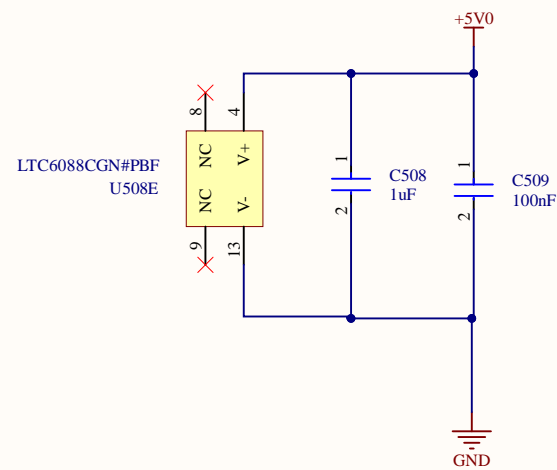
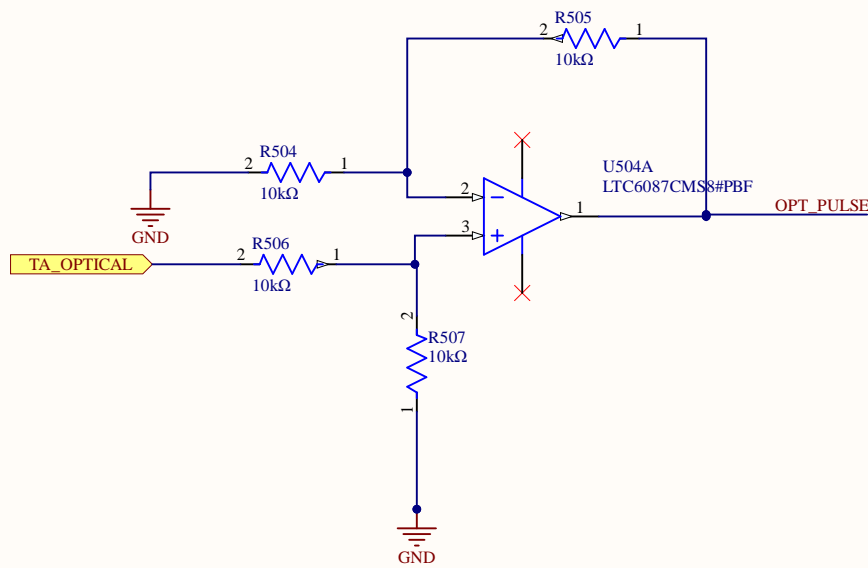
Openwater

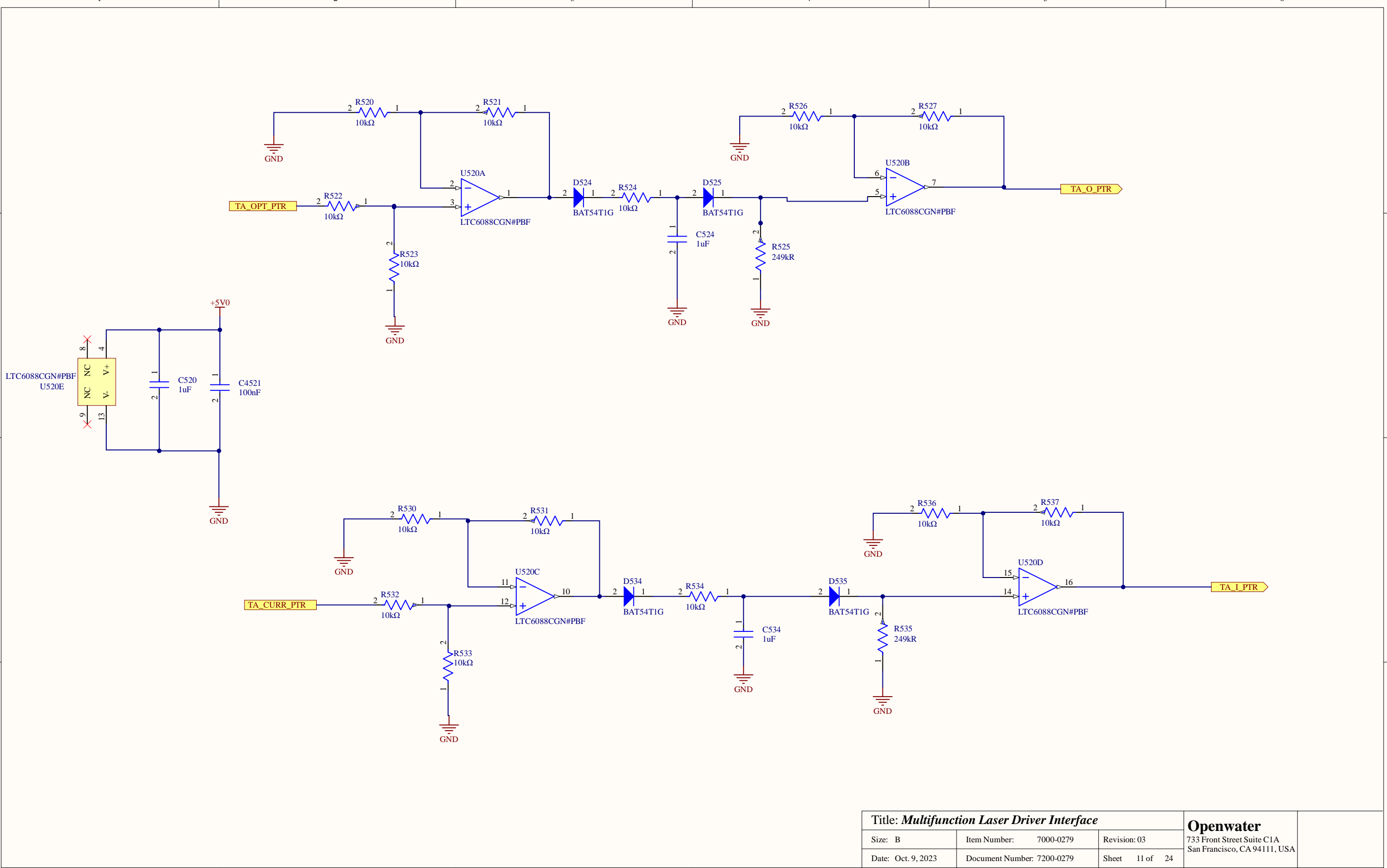
733 Front Street Suite C1A
San Francisco, CA 94111, USA

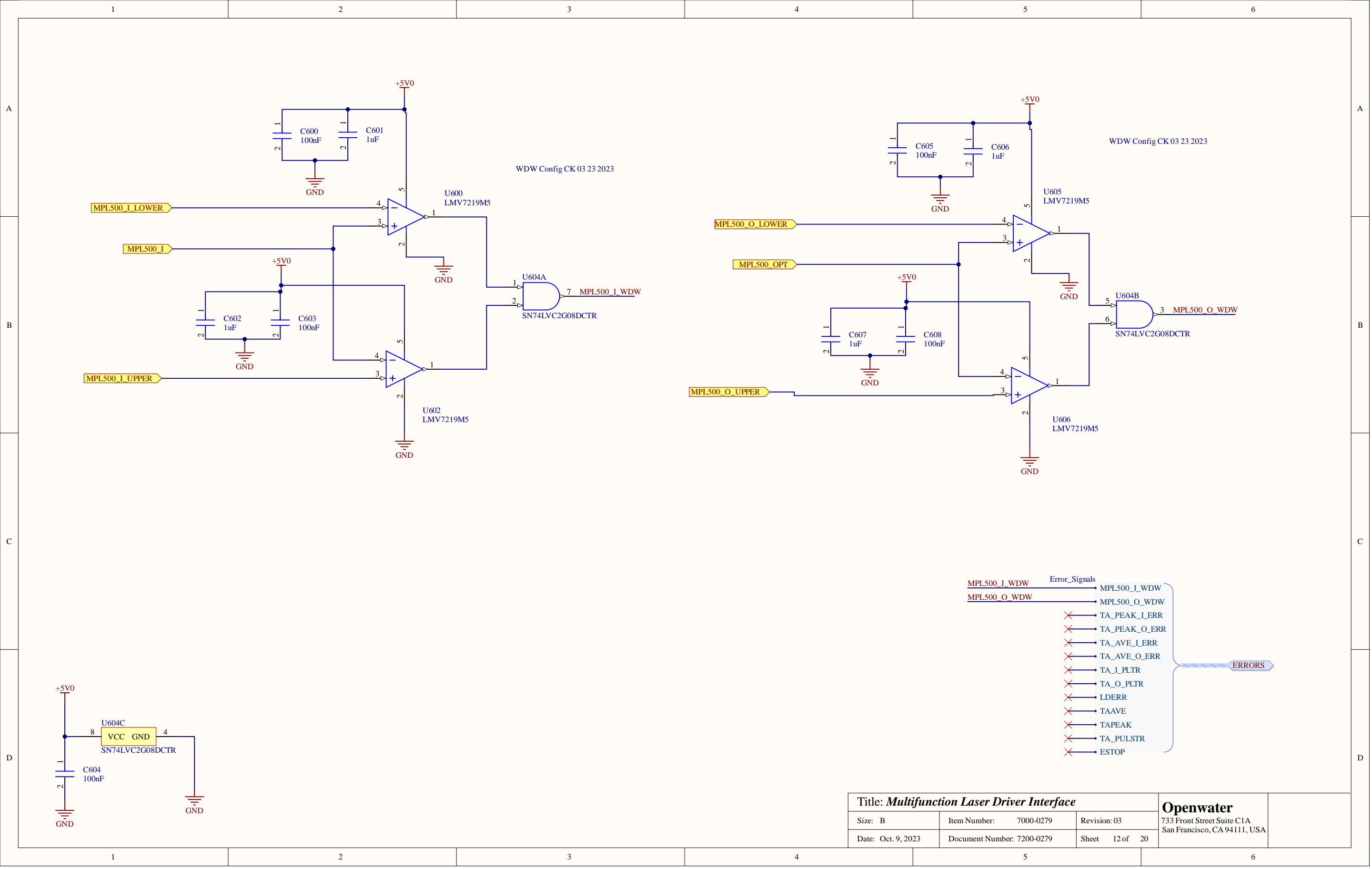


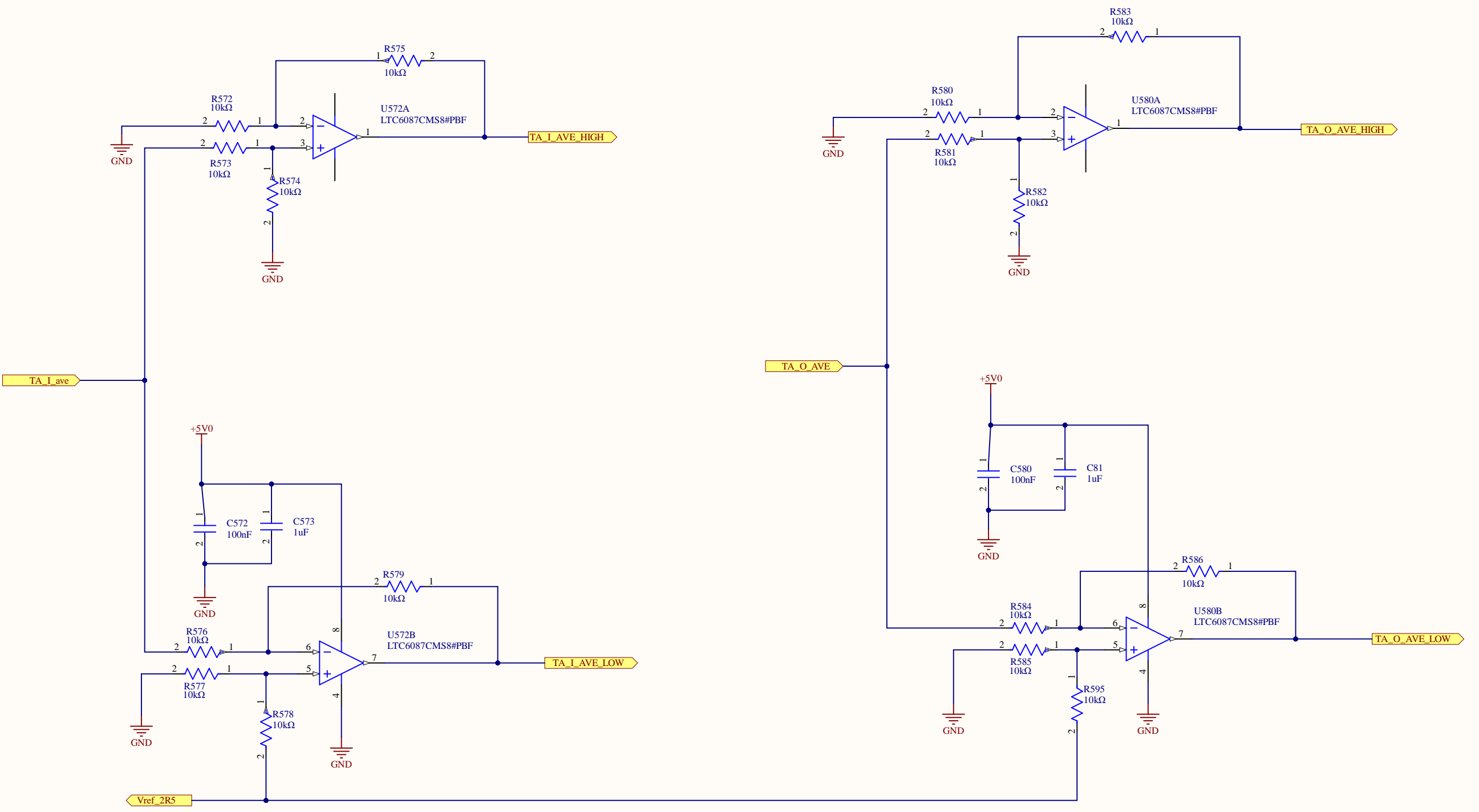
Title: <i>Multifunction Laser Driver Interface</i>			Openwater 733 Front Street Suite C1A San Francisco, CA 94111, USA
Size: B	Item Number: 7000-0279	Revision: 03	
Date: Oct. 9, 2023	Document Number: 7200-0279	Sheet 8 of 24	

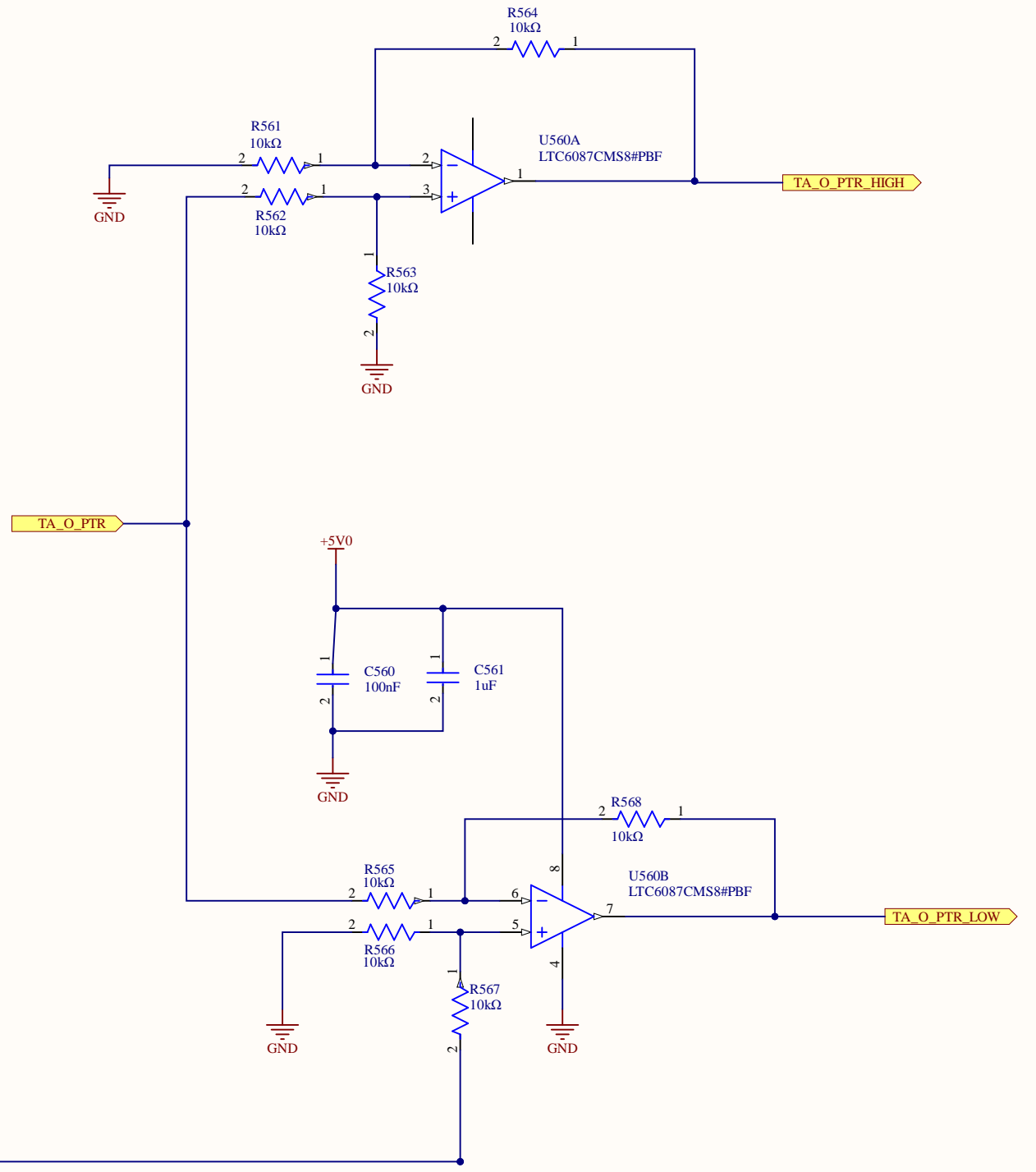
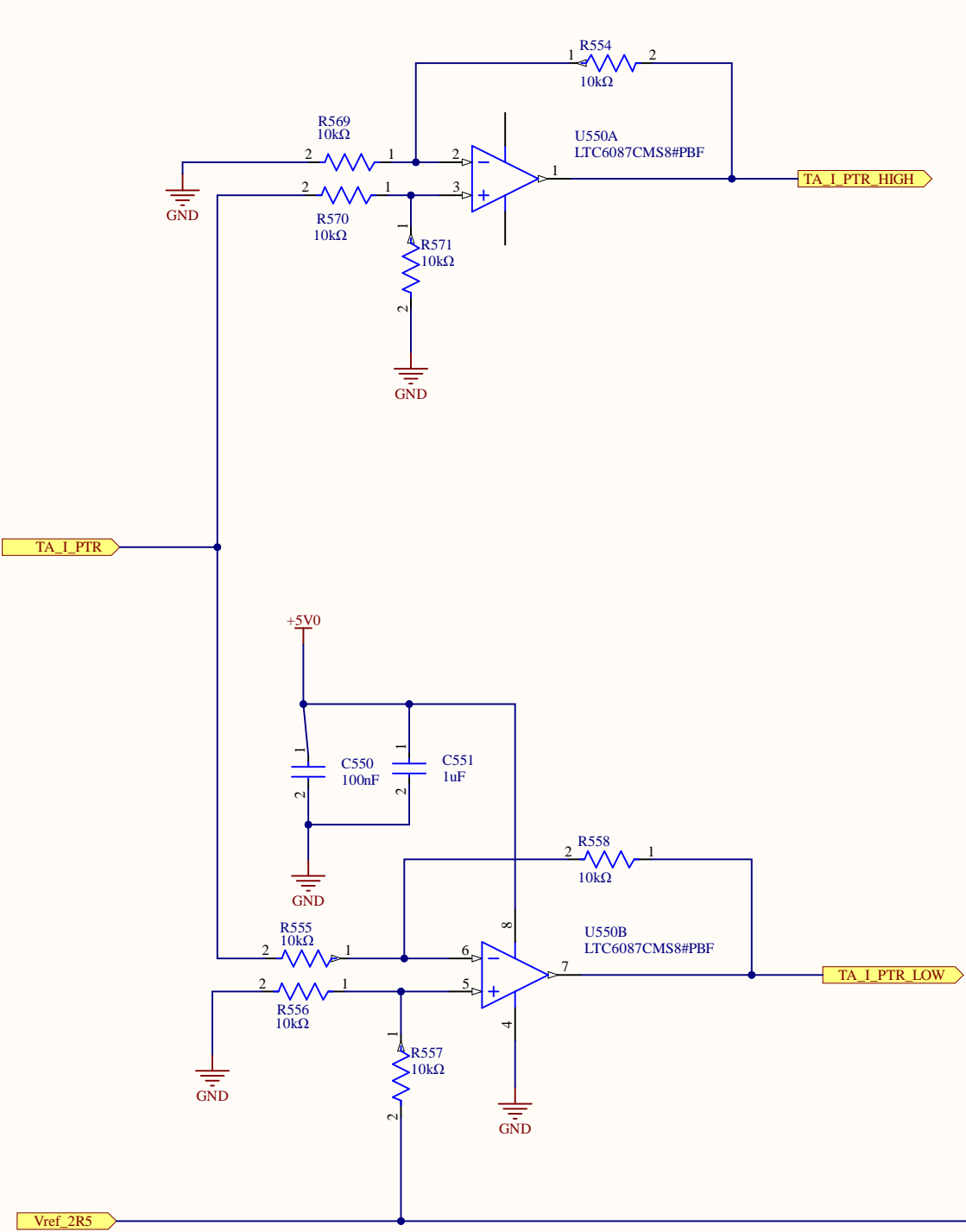


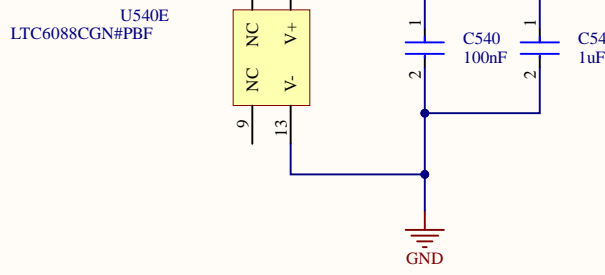
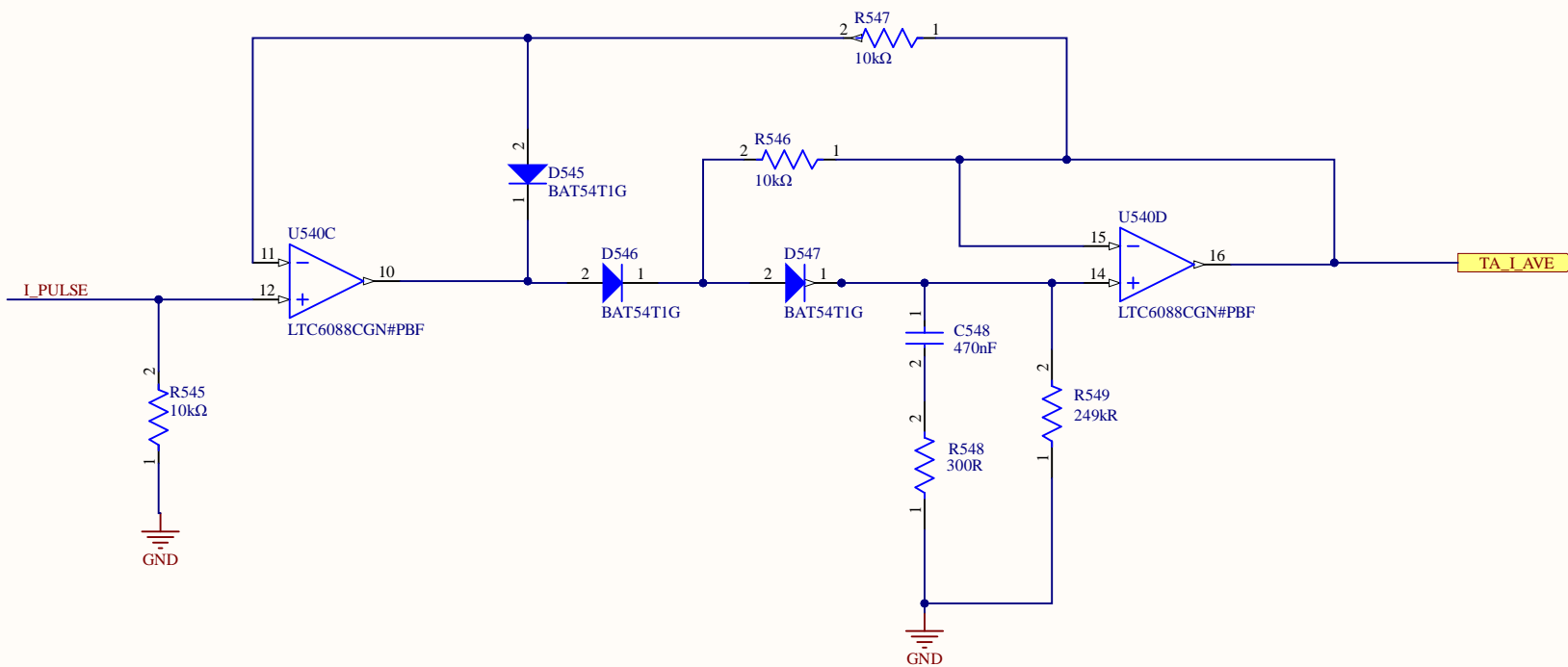
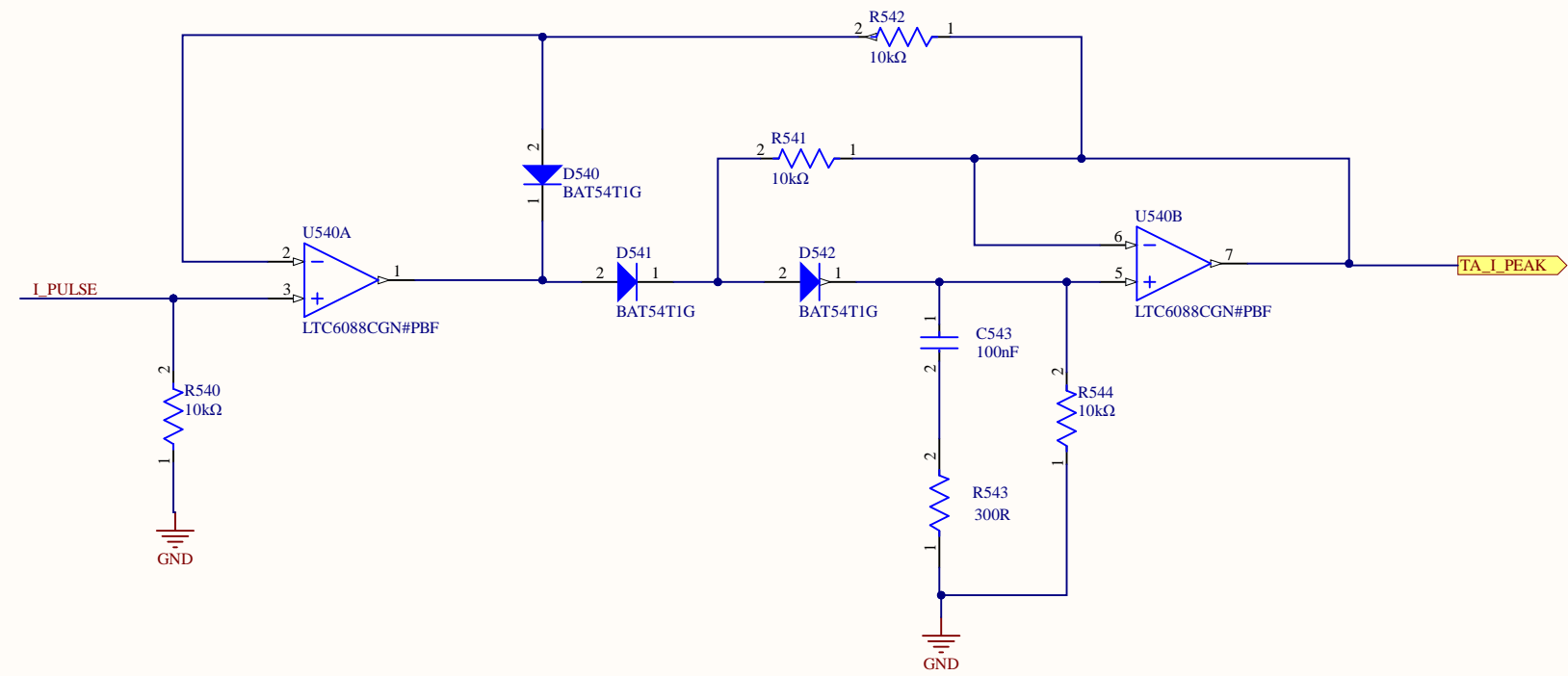
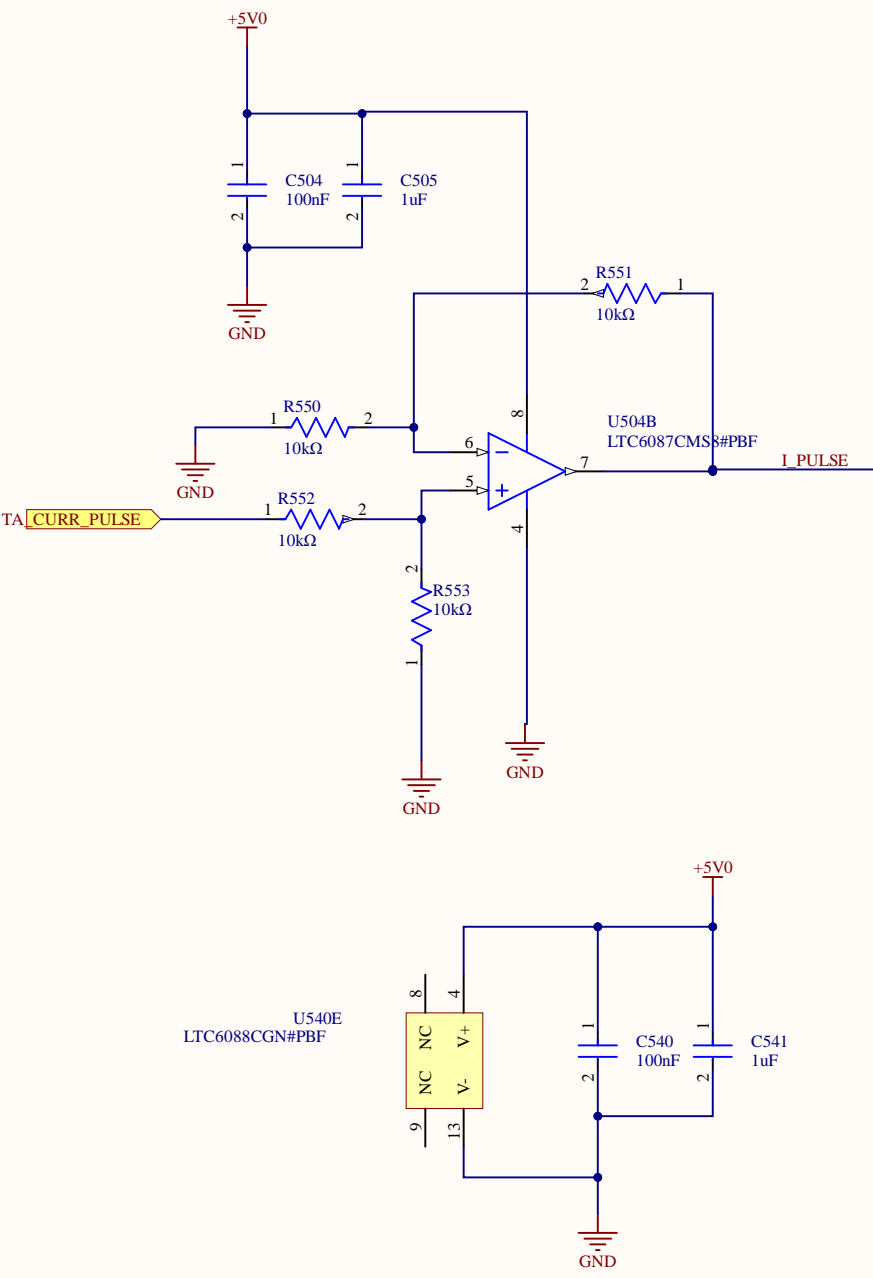


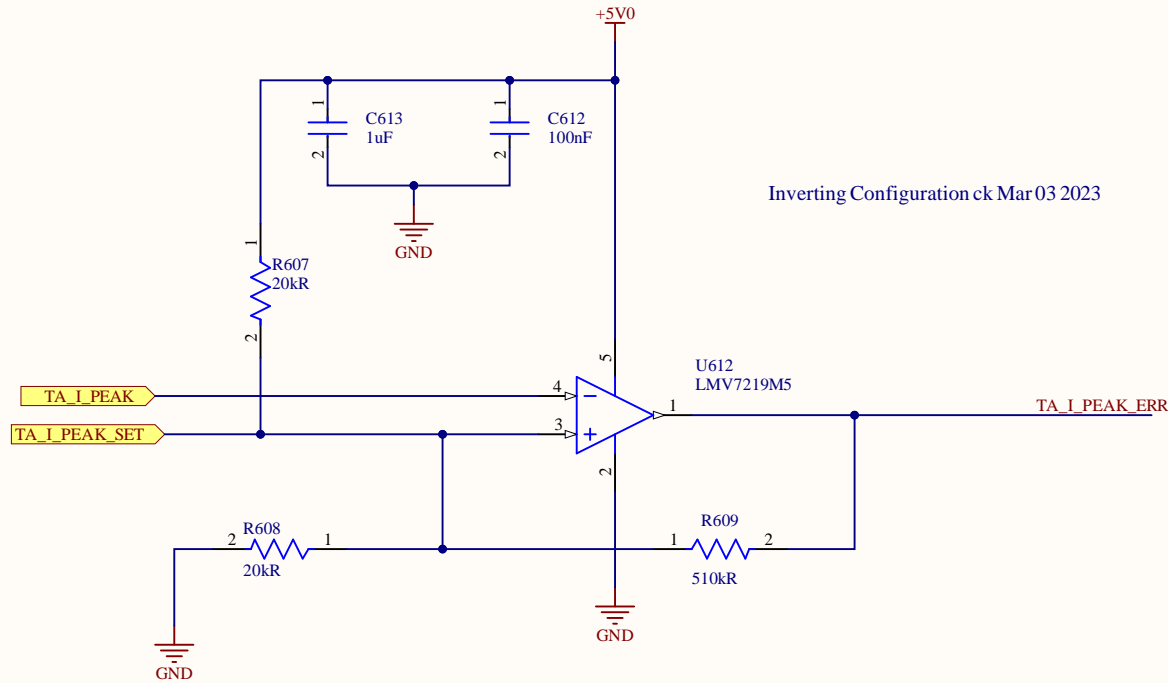










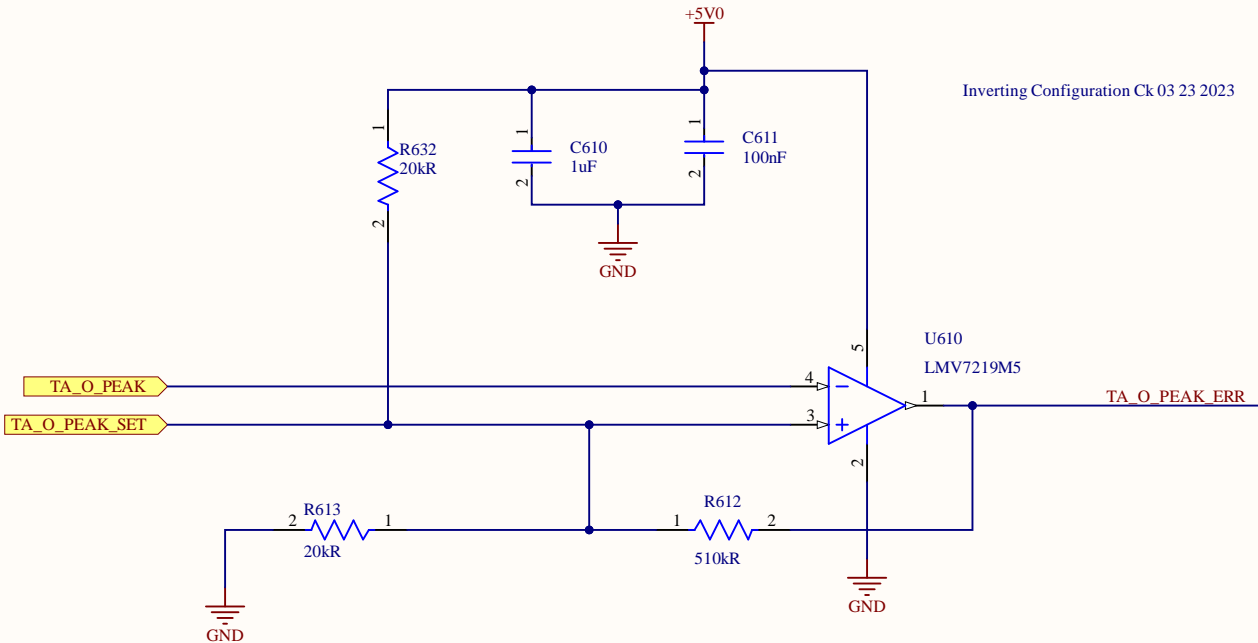


Inverting Configuration ck Mar03 2023

High
TA_I_PEAK > TA_I_PEAK_SET
Vout = 0

TA_I_PEAK < TA_I_PEAK_SET
Vout = 1

Hyst = ~ 50 mV

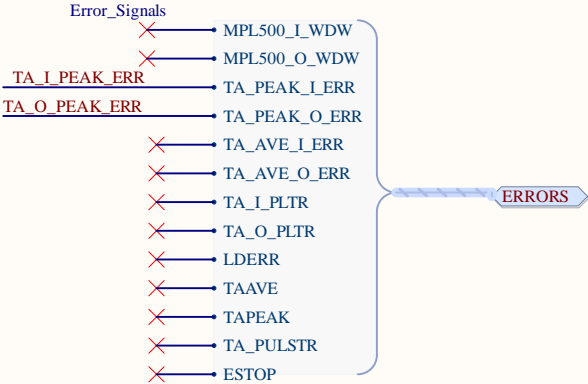


Inverting Configuration Ck 03 23 2023

High
TA_O_PEAK > TA_O_PEAK_SET
Vout = 0

TA_O_PEAK < TA_O_PEAK_SET
Vout = 1

Hyst = ~ 50 mV



High
TA_I_AVE_HIGH > TA_I_AVE_UPPER
Vout = 0

TA_I_AVE_HIGH < TA_I_AVE_UPPER
Vout = 1

Hyst = ~ 50 mV

High
TA_O_AVE_HIGH > TA_I_PTR_UPPER
Vout = 0

TA_O_AVE_HIGH < TA_I_PTR_UPPER
Vout = 1

Hyst = ~ 50 mV

High
TA_O_AVE_LOW > TA_I_PTR_LOWER
Vout = 1

TA_O_AVE_LOW < TA_I_PTR_LOWER
Vout = 0

Hyst = 50 mV

High
TA_I_AVE_LOW > TA_I_AVE_LOWER
Vout = 1

TA_I_AVE_LOW < TA_I_AVE_LOWER
Vout = 0

Hyst = 50 mV

- Error_Signals
- ×

MPL500_I_WDW

×

MPL500_O_WDW

×

TA_PEAK_I_ERR

×

TA_PEAK_O_ERR

TA_AVE_I_ERR

TA_AVE_I_ERR

TA_AVE_O_ERR

TA_AVE_O_ERR

×

TA_I_PLTR

×

TA_O_PLTR

×

LDERR

×

TA_AVE

×

TAPEAK

×

TA_PULSTR

×

ESTOP
- ERRORS

High
TA_I_PTR_HIGH > TA_I_PTR_UPPER
Vout = 0

TA_I_PTR_HIGH < TA_I_PTR_UPPER
Vout = 1

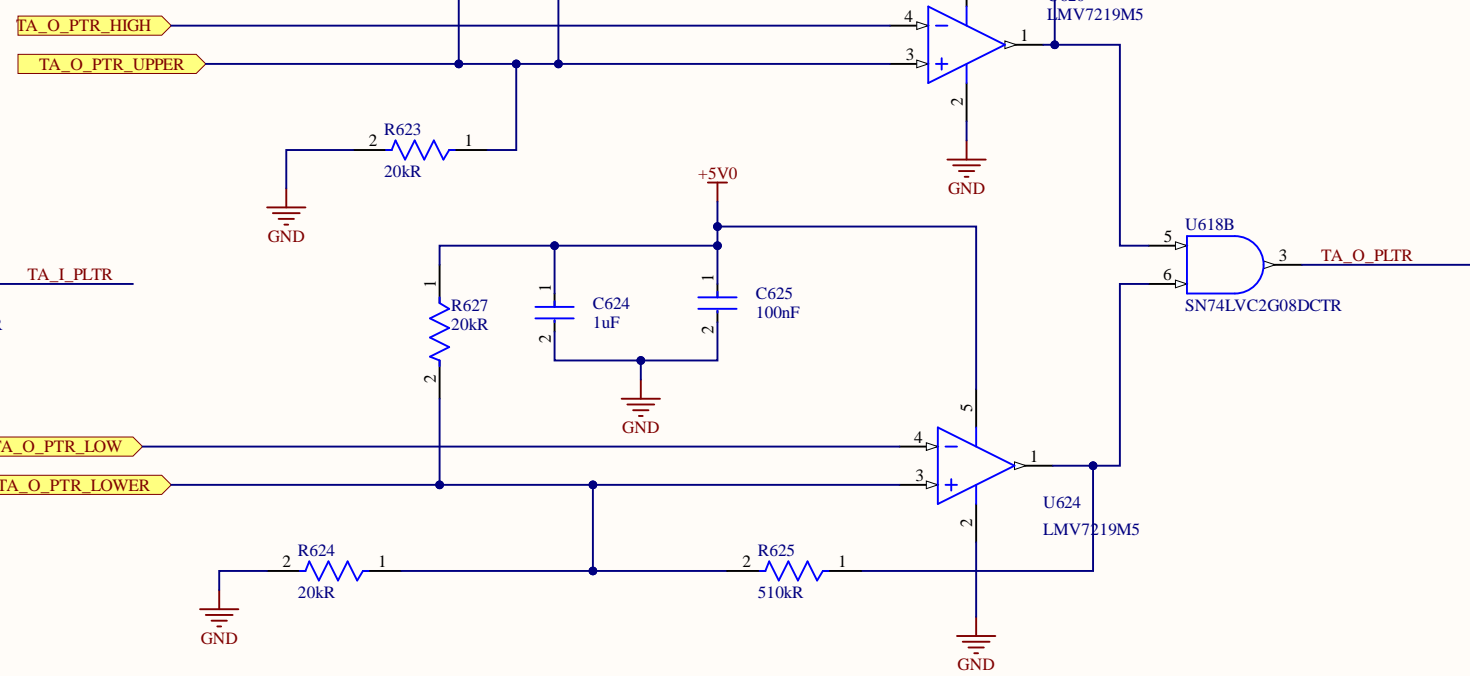
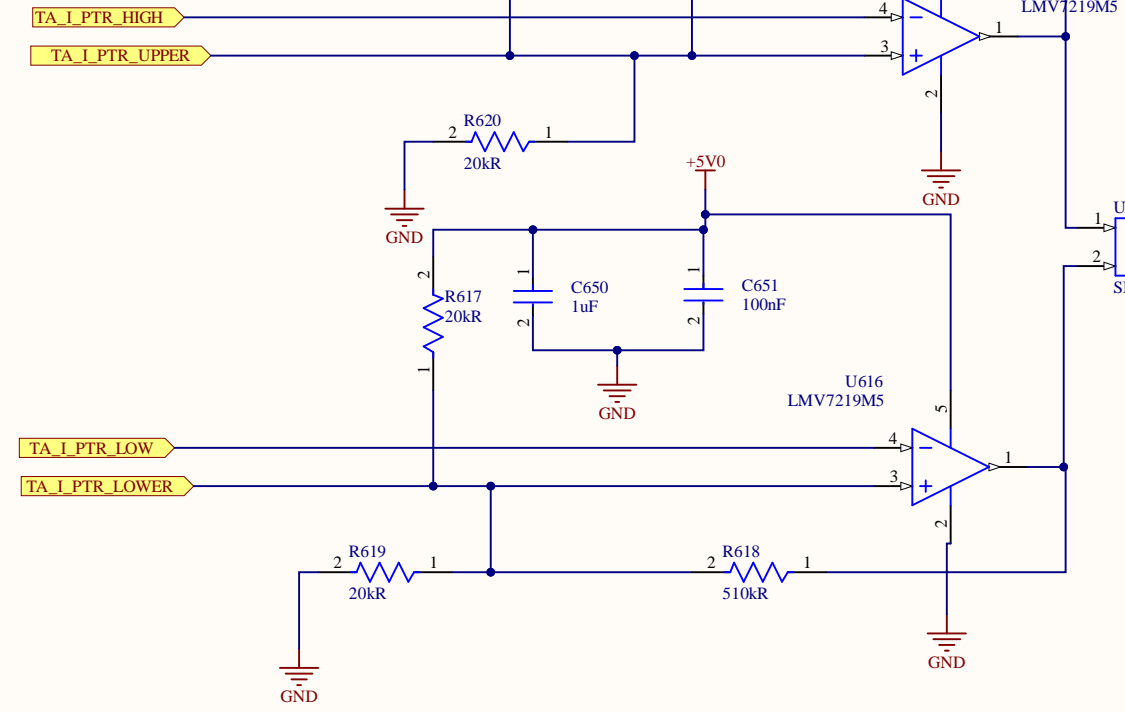
Hyst = ~ 50 mV

High
TA_O_PTR_HIGH > TA_I_PTR_UPPER
Vout = 0

TA_O_PTR_HIGH < TA_I_PTR_UPPER
Vout = 1

Hyst = 50 mV

WDW Config CK 03 23 2023



High
TA_O_PTR_LOW > TA_I_PTR_LOWER
Vout = 1

TA_O_PTR_LOW < TA_I_PTR_LOWER
Vout = 0

Hyst = ~ 50 mV

High
TA_I_PTR_LOW > TA_I_PTR_LOWER
Vout = 1

TA_I_PTR_LOW < TA_I_PTR_LOWER
Vout = 0

Hyst = ~ 50 mV

