

Channel Mode selector

Used to generate the DEx/REx signals from the SPI channel of the MCU.

Truth Table of MIDDS Channels DE RE Mode 0 0 Off 0 1 TTL Input/Output 1 0 LVDS Input 1 1 LVDS Output

The names DE/RE have stuck from older versions of this circuit but they don't mean what its name would imply.

DE = LVDS/#Digital

RE = LVDS Driver/#Receiver

SP3T Bidirectional Analog Switch

Table 8-1. Function Table

IN2	IN1	COM TO NO, NO TO COM
L	L	OFF
L	Н	COM = NO0
Н	L	COM = NO1
Н	Н	COM = NO2

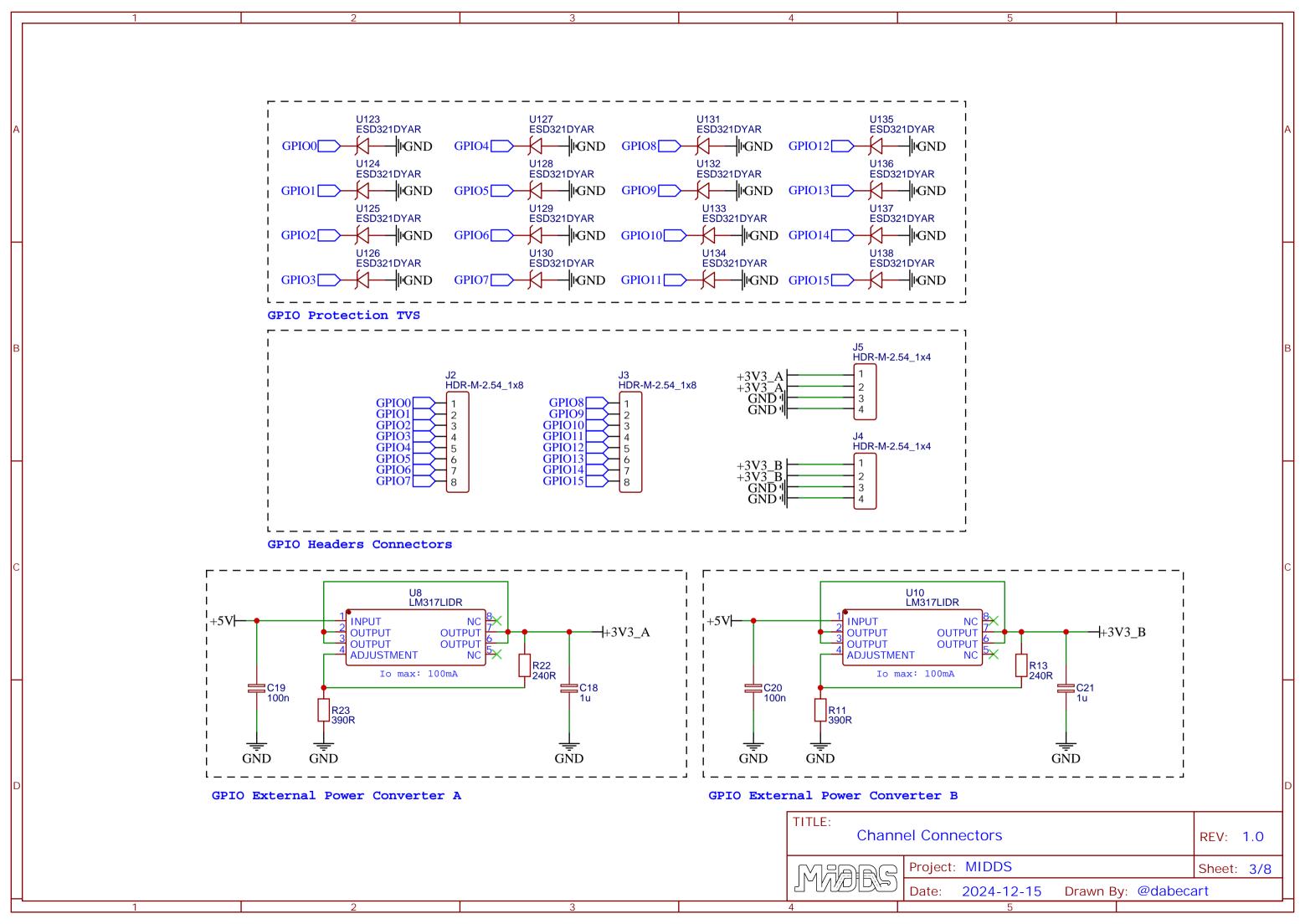
TS5A3359DCUR Truth Table

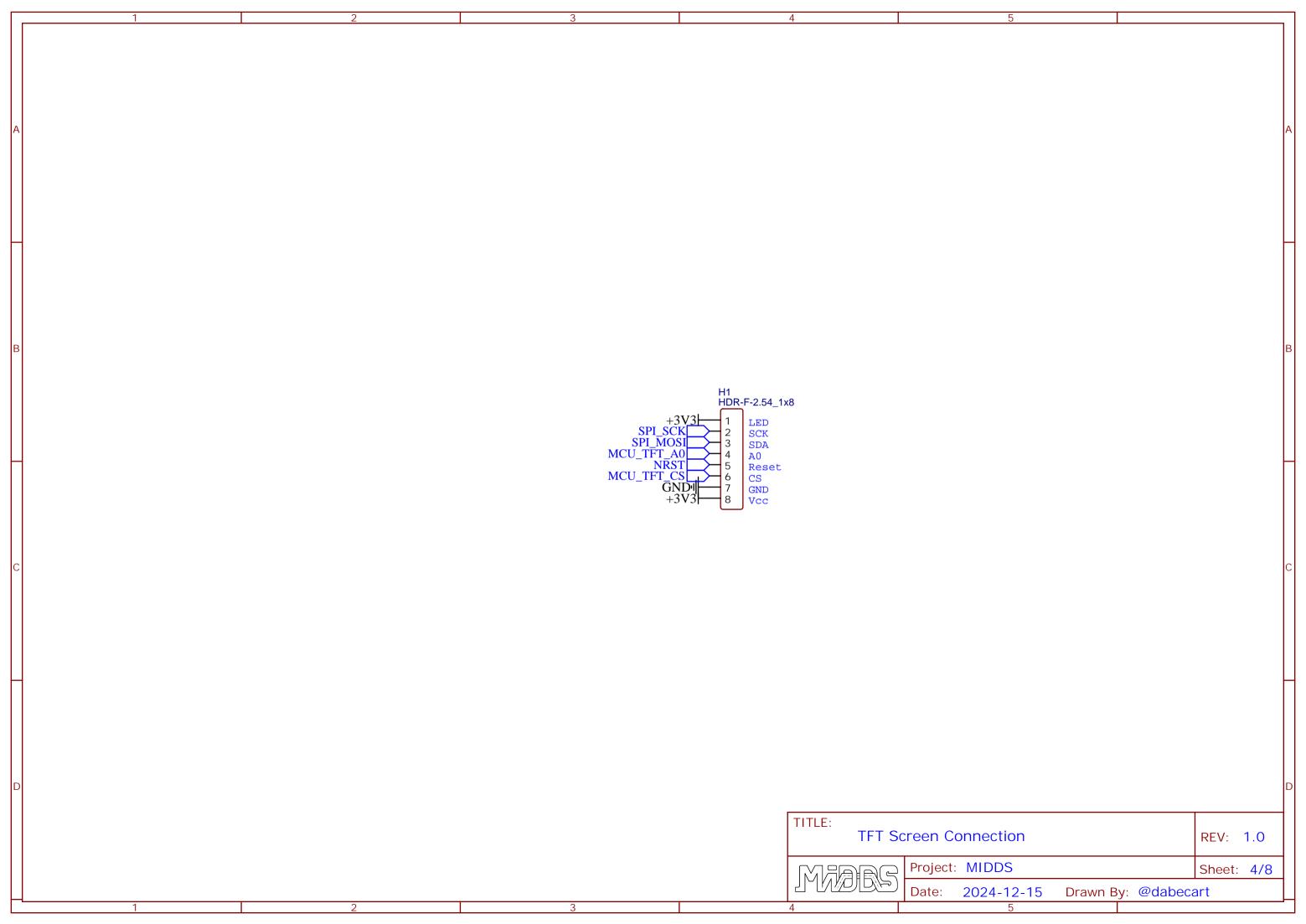
LVDS driver and receiver

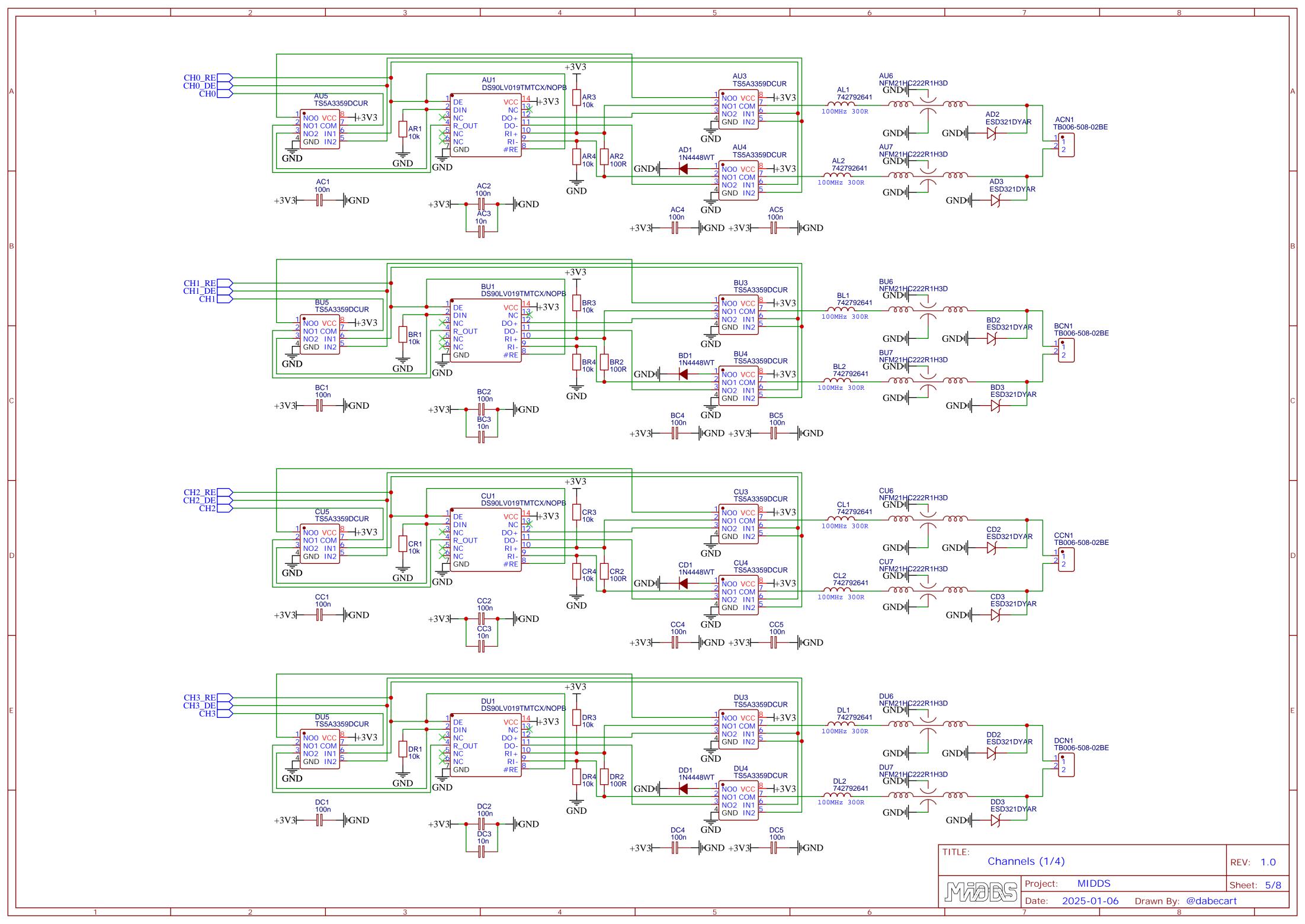
MODE SELECTED	DE	RE
DRIVER MODE	Н	Н
RECEIVER MODE	L	L
TRI-STATE MODE	L	Н
FULL DUPLEX MODE	Н	L

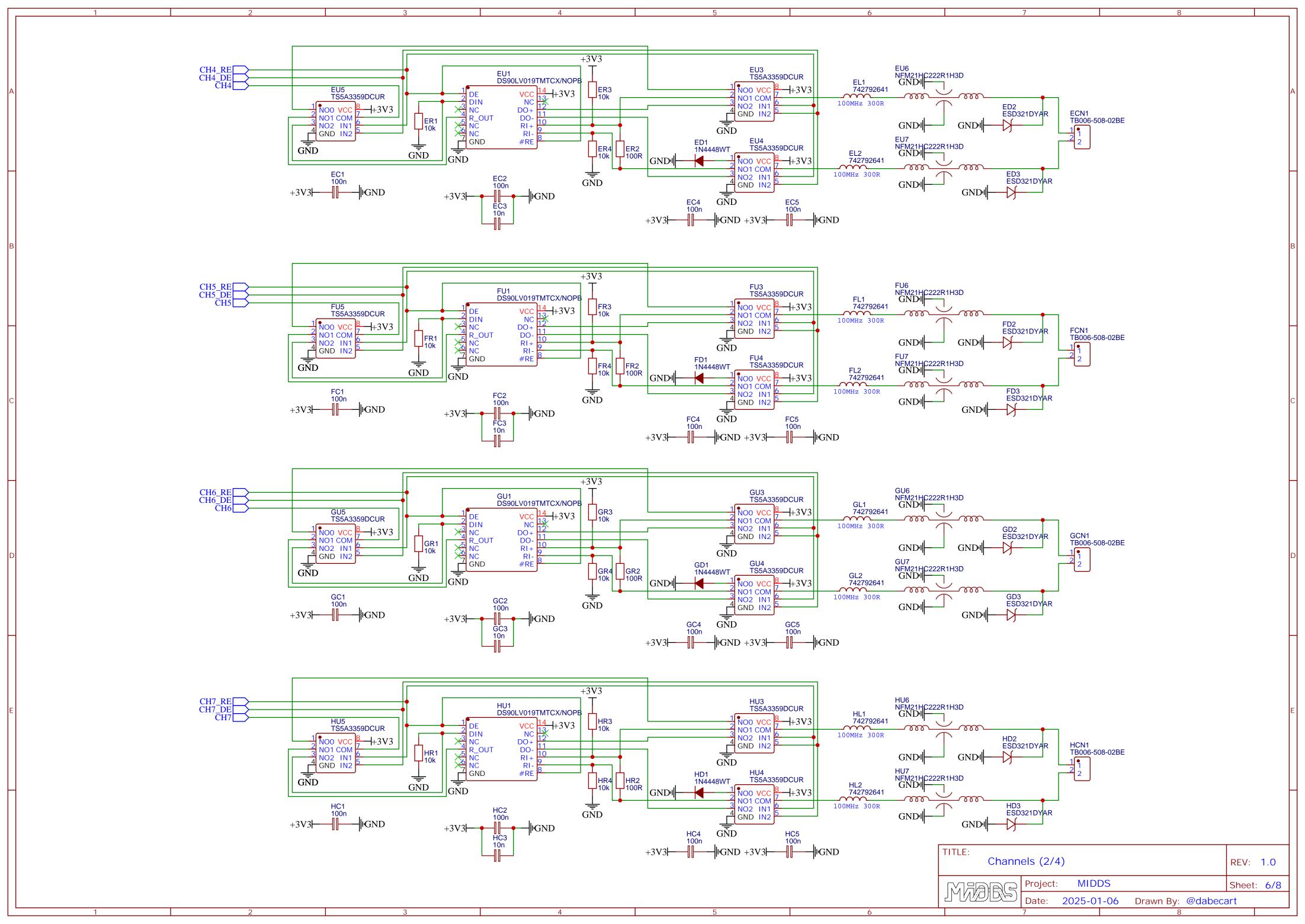
DS90LV019TMTCX Truth Table

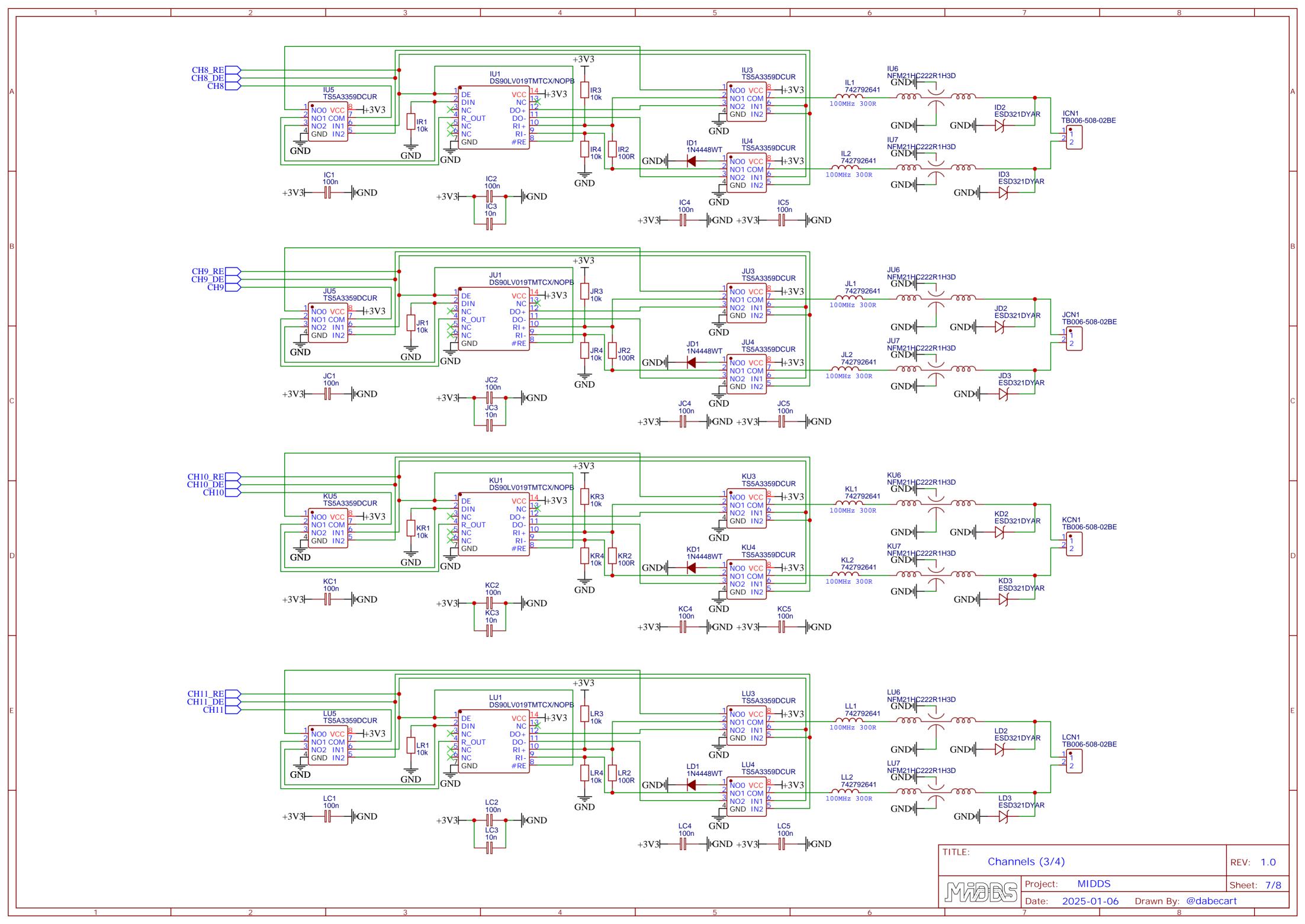
TITLE: Channel Control Signals		REV: 1.0
Project: MIDDS		Sheet: 2/8
	Date: 2024-12-15 Drawn By: @dabeca	art

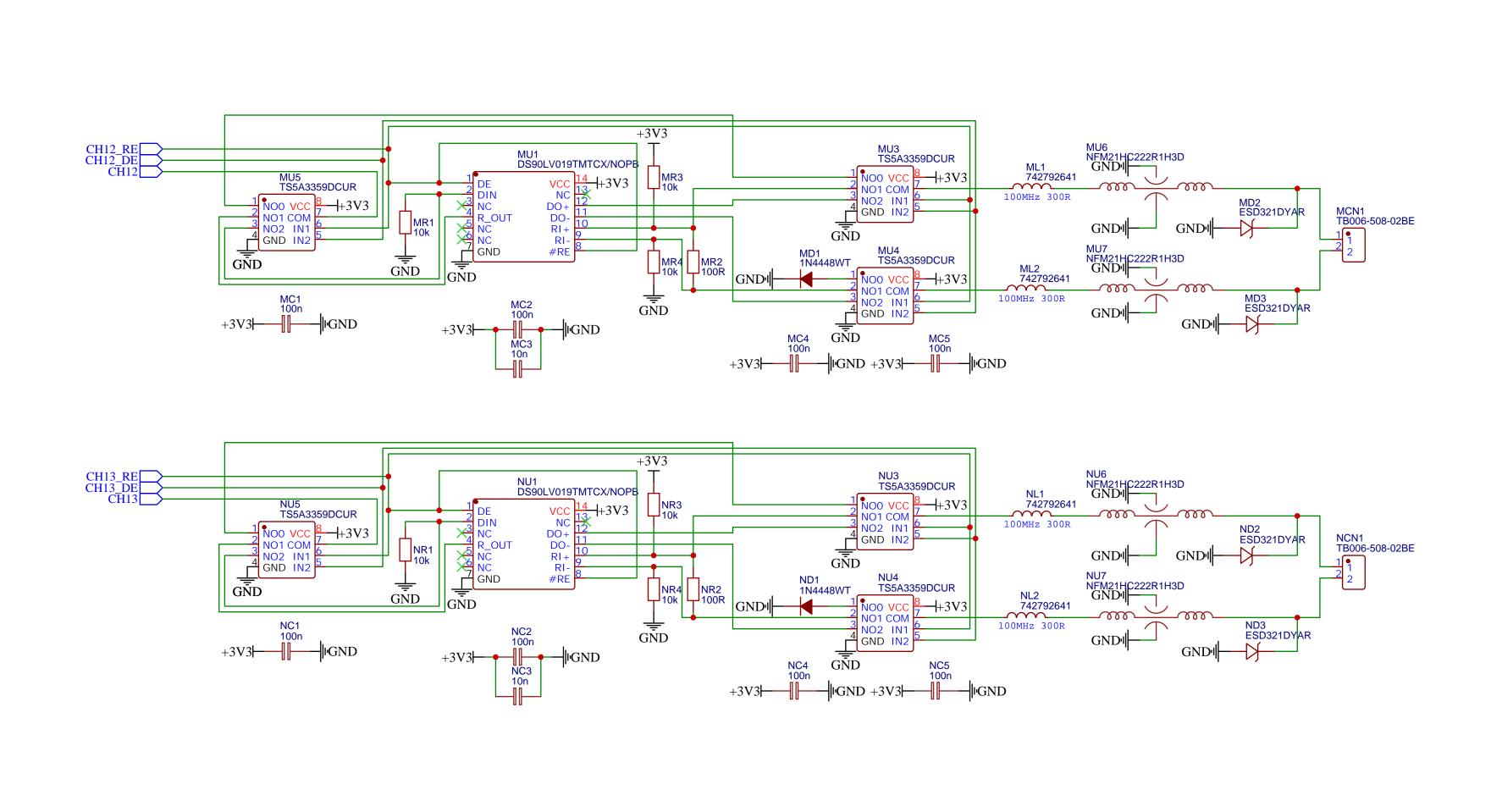












TITLE: Channels (4/4) REV: 1.0 MIDDS Sheet: 8/8 2025-01-06 Drawn By: @dabecart