



Title Yamper: Optical Ring Encoder Board		
Size A4	Number	Revision
Date: 6-13-2021	Sheet of	
File: C:\Users\...\Yamper.SchDoc	Drawn By: Allen Z & Jennifer C	

Comment	Description	Designator	Footprint	LibRef	Quantity
Capacitor - Polarized	Polarized Capacitor	C1, C3	OCVZ0606 - CAPACITOR	Capacitor - Polarized	2
10nF	Nonpolarized Capacitor	C2	0603 - Capacitor	Capacitor - Nonpolarized	1
Capacitor - Nonpolarized	Nonpolarized Capacitor	C4, C5, C6, C7	0603 - Capacitor	Capacitor - Nonpolarized	4
LED	Light Emitting Diode	D1		LED	1
TLV1117-33IDCYR	Linear Voltage Regulator IC 3.3V 800MA SOT223-4	IC1	TLV1117	TLV1117-33IDCYR	1
STM32F042K4T6	Microcontroller	IC2	QFP80P900X900X160- 32N	STM32F042K4T6	1
TJA1051T_3,118	CAN Transceiver IC 4.5V-5.5V 250ns	IC3	TJA1051T/3,118	TJA1051T_3,118	1
OPB733TR	Phototransistor	IC4, IC5		OPB733TR	2
B4B-EH-A__LF__SN_	1x4 Pin Header	J1	HDR1X4	1x4 Header	1
GRPB052VWVN-RC	Connector	J2	HDRV10W50P127_2X 5_635X340X430P	GRPB052VWVN-RC	1
Resistor	Resistor	R1, R2, R3, R4, R5	0603 - Resistor	Resistor	5
Oscillator	Crystal Oscillator	Y1	2-SMD NO LEAD CRSYSTAL	Oscillator	1