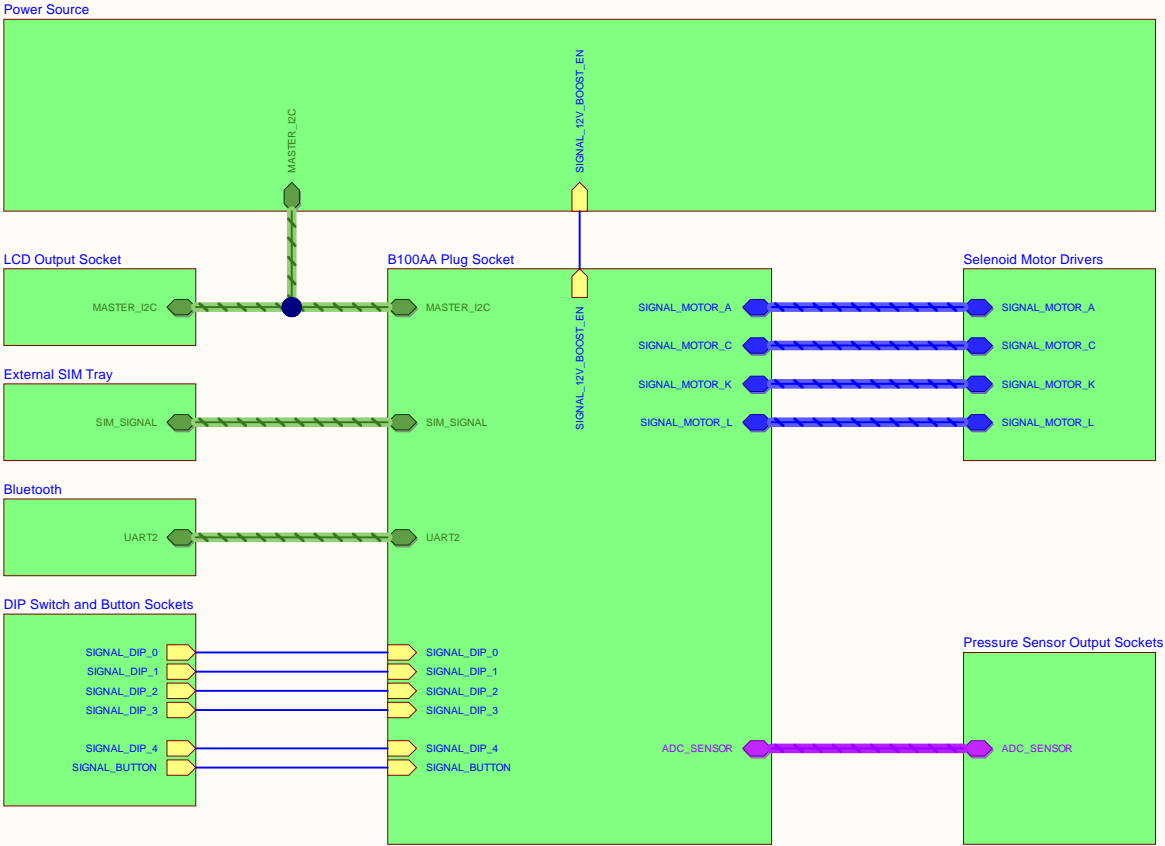



B151BA - Filter Automation System



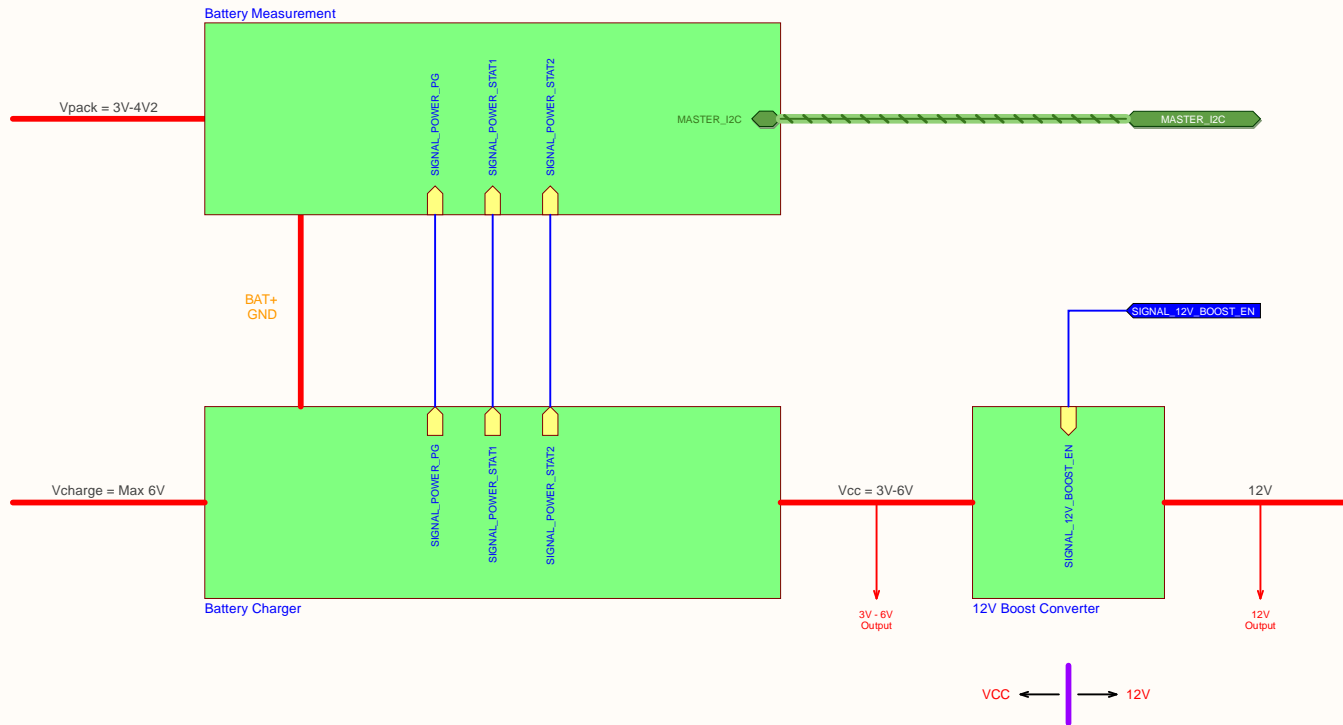
Title B151BA Block Diagram			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:22	Sheet 1 of		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\B151BA Block Diagram.SchDoc				



Li-Ion Battery
2 x 2500 mAh



Charge Power Socket



Title **Power Source**

Size: **A4**

Number: **BA001**

Revision: **B151BA**

Date: **11.01.2021**

Time: **14:25:22**

Sheet **2** of

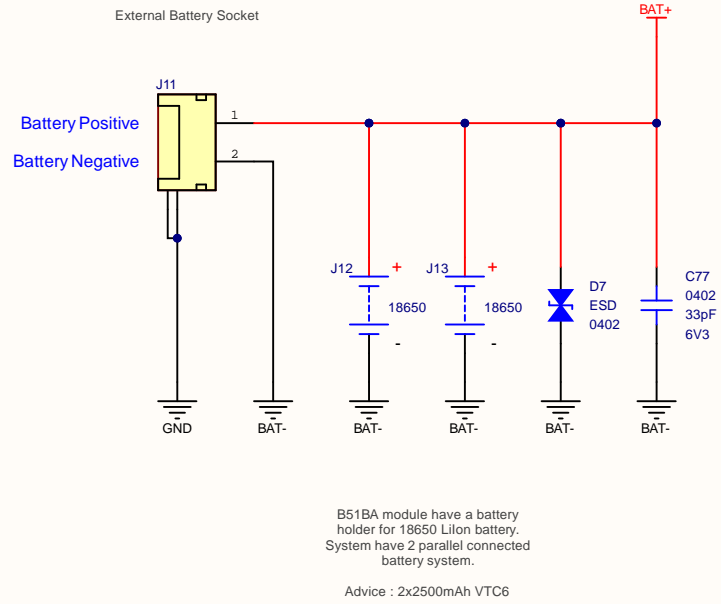
File: **C:\Altium Projects\PS11\BA\Electronic[B151BA]Design Files\Schematic\Power Source.SchDoc**

Ovoo Electronics

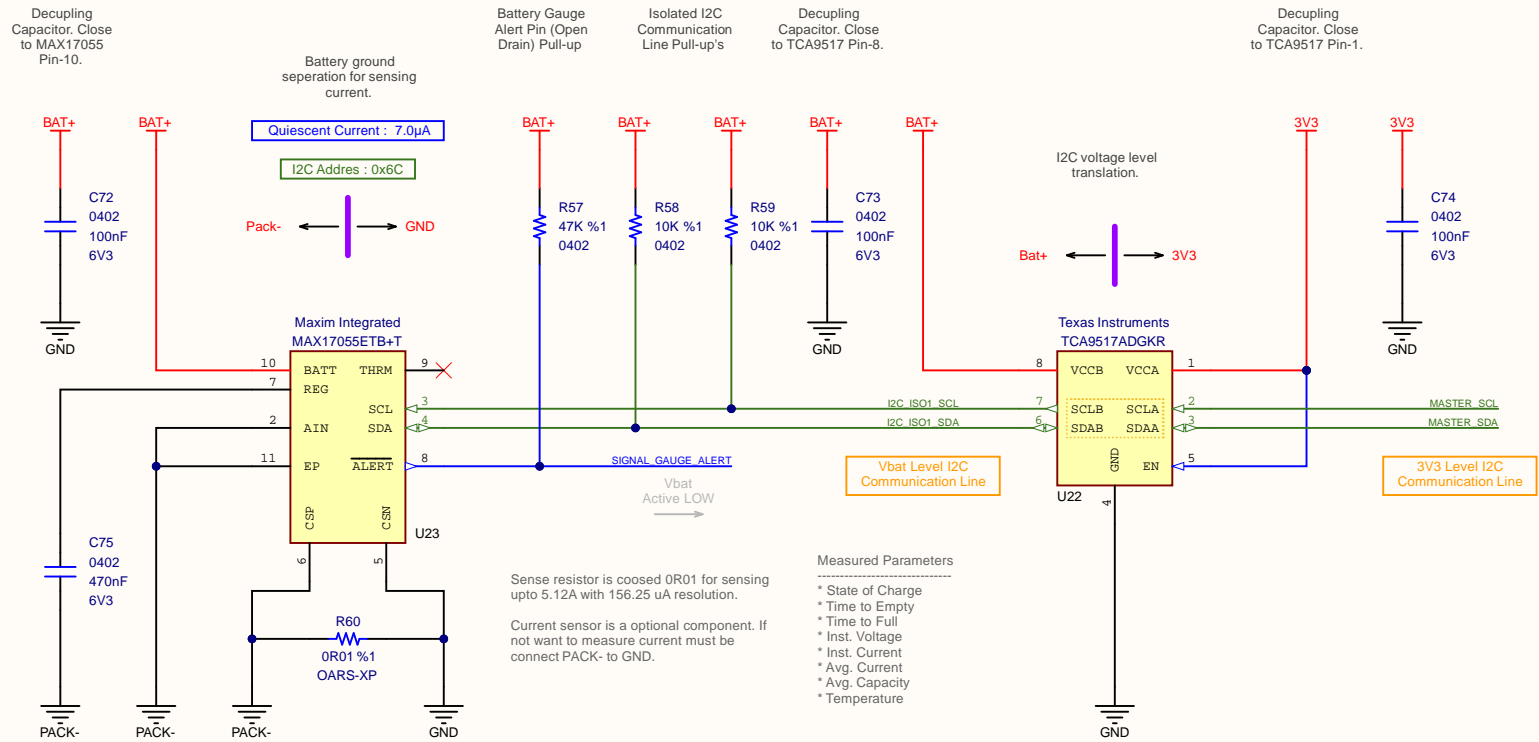
Necip Fazıl Mah. Ortarmak Sok.
Bırgölü Apt. No: 19/6
Meram / Konya
Türkiye



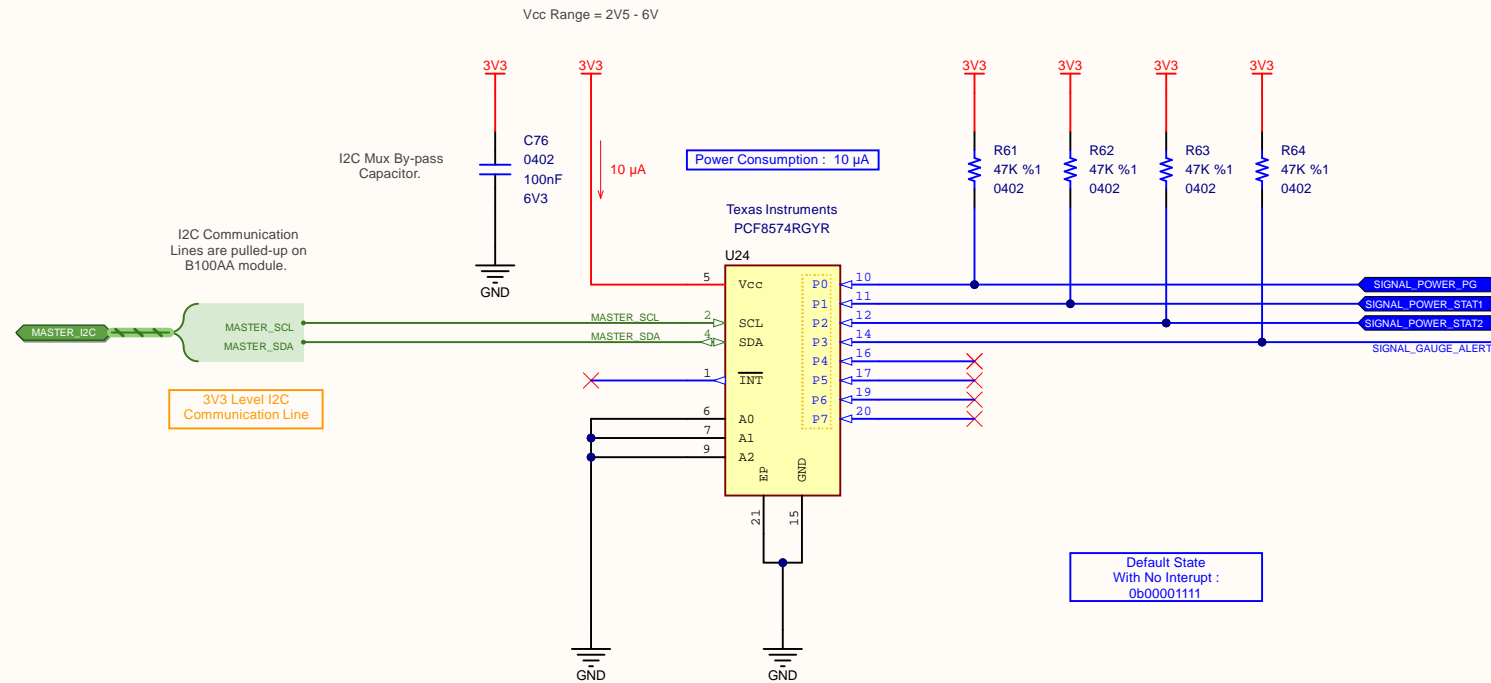
Battery Socket



Battery Measurement



I2C I/O Expander



A

B

C

D

A

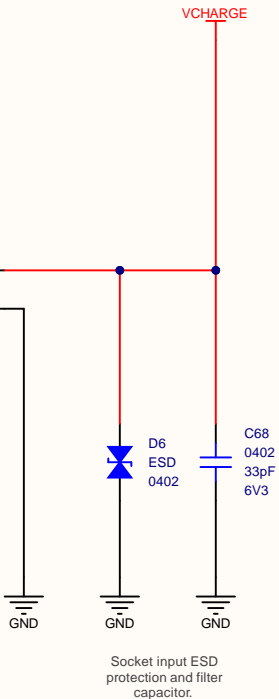
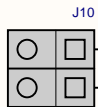
B

C

D

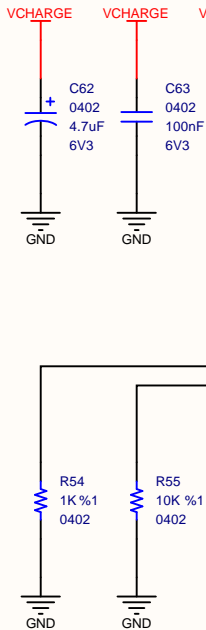
CUI Devices Manufacturer :
Screwless Screw Type :
2 Position :
3.5 mm Pitch :
45 Degree Orientation :
24 - 20 AWG Wire Gauge :
Terminal Color :
Button Color :

Charge Feed Socket

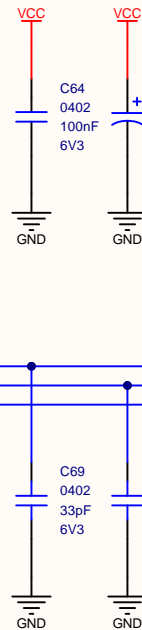


Socket input ESD
protection and filter
capacitor.

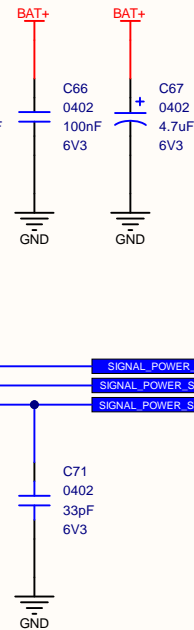
By-Pass Capacitors
Close to MCP73871
Pin-18/19 (IN)



By-Pass Capacitors
Close to MCP73871
Pin-1/20 (OUT)



By-Pass Capacitors
Close to MCP73871
Pin-14/15 (OUT)




SEL Pin : Input type selection (Low for USB port, High for
other type of power source)

TE Pin : Enables Safety Timer when active Low.

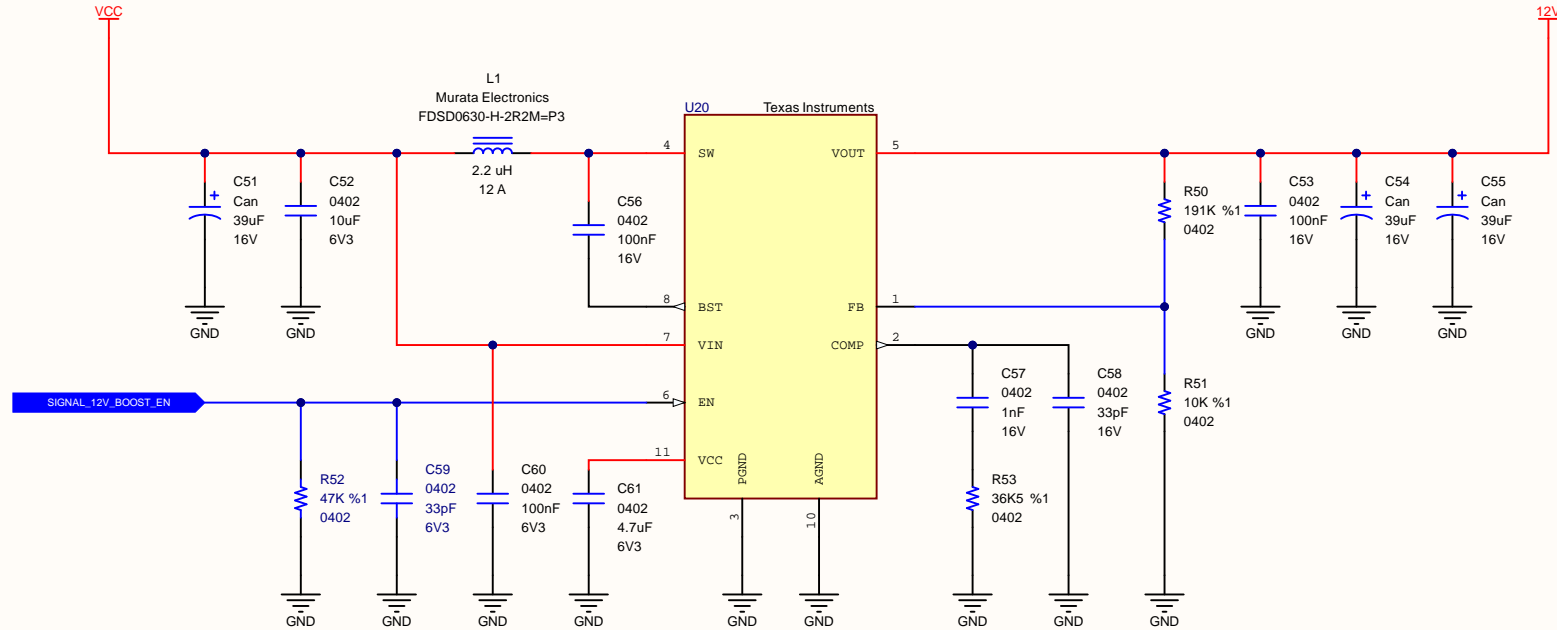
PROG1 Pin : Fast charge current regulation setting with
PROG1 = High. Preconditioning set point for both USB port
and other type of power source. 1K = 1A charge current limit.

PROG2 Pin : USB port input current limit selection when
PROG2 = HIGH. (Low = 100 mA, High = 500 mA)

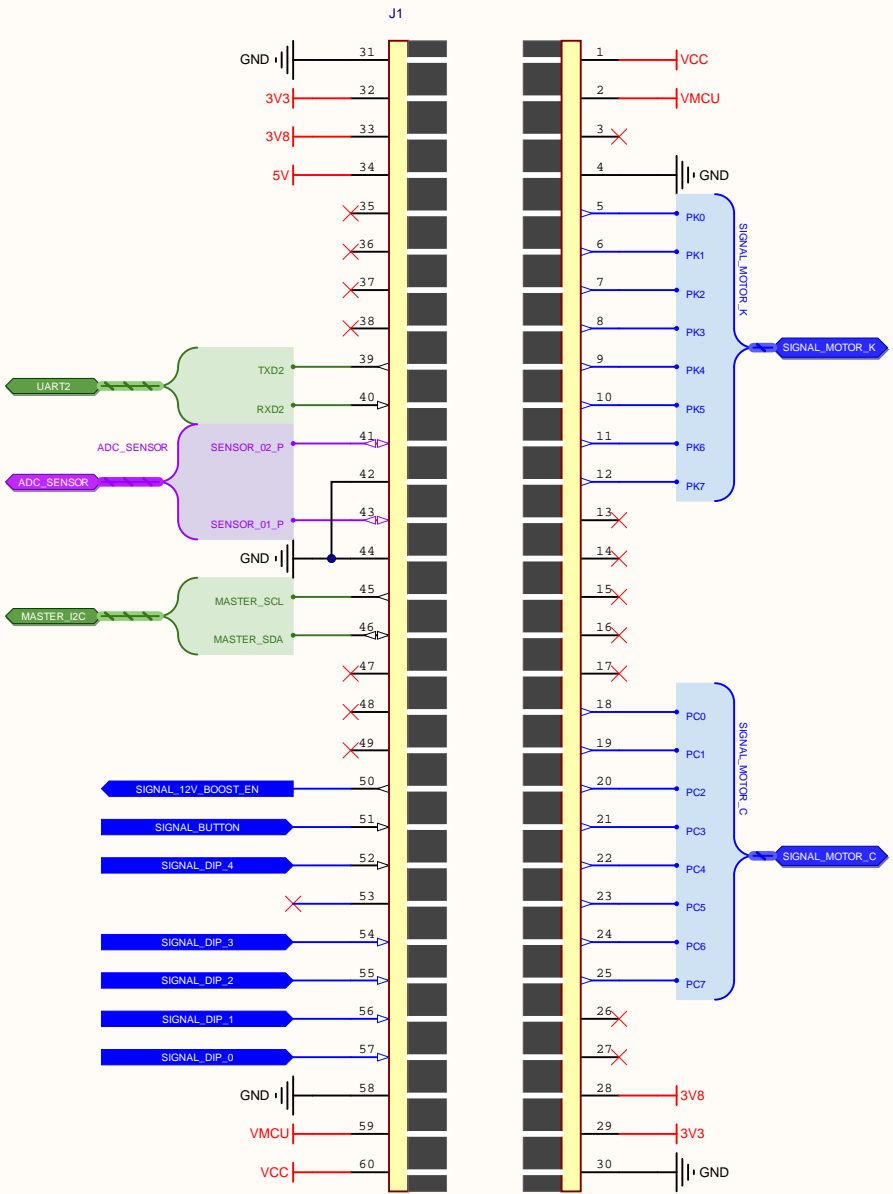
PROG3 Pin : Termination set point for power source and USB
port. Minimum charge current. 10K = 100 mA.

Title Battery Charger			Ovoo Electronics		
Size: A4	Number: BA001	Revision: B151BA	Necip Fazıl Mah, Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye		
Date: 11.01.2021	Time: 14:25:22	Sheet 4	of		
File: C:\Altium Projects\PS111\BA\Electronic\B151BA\Design Files\Schematic\Battery Charger.SchDoc					

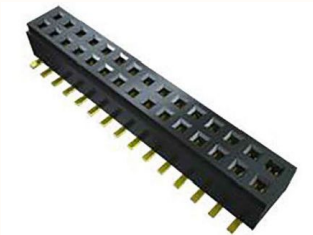
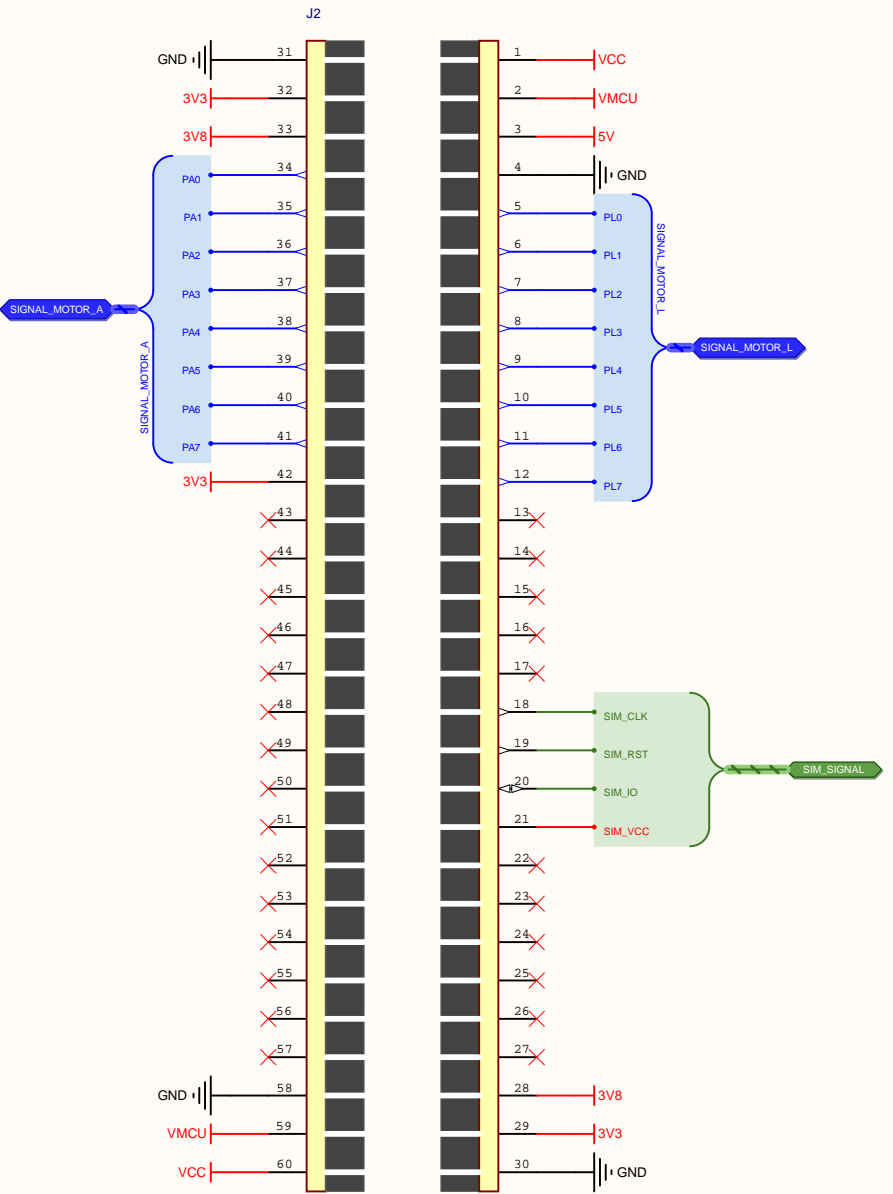
12V Synchronous Boost Converter



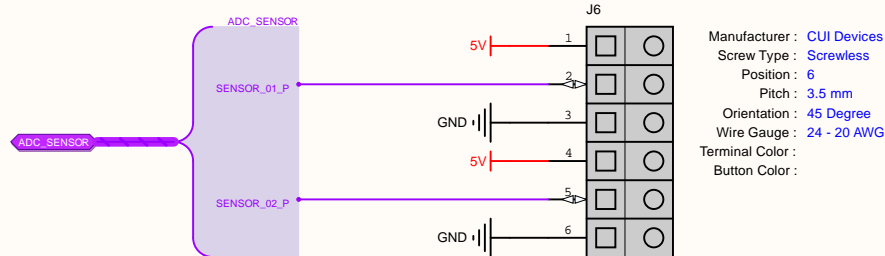
Module Input Sockets




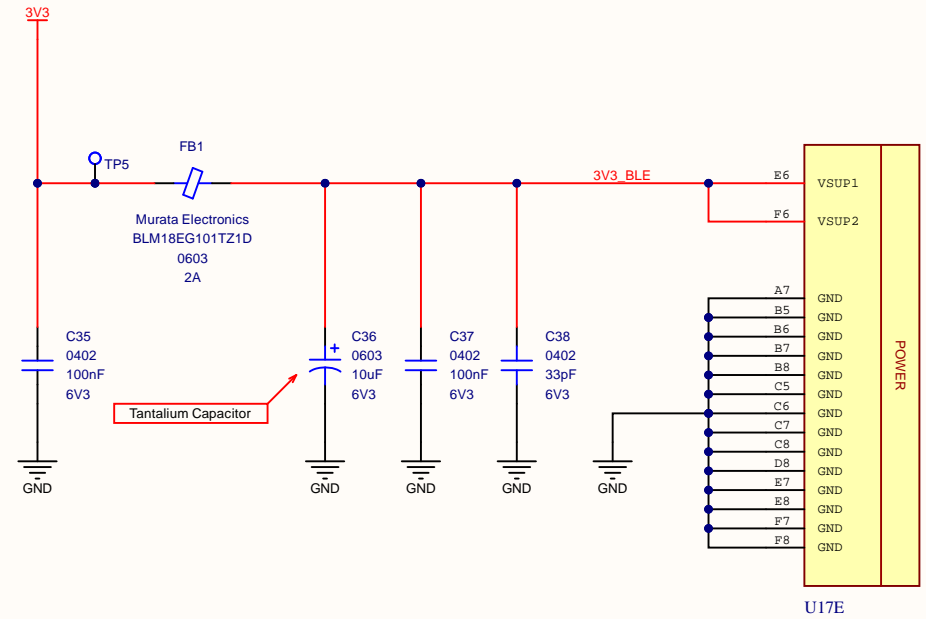
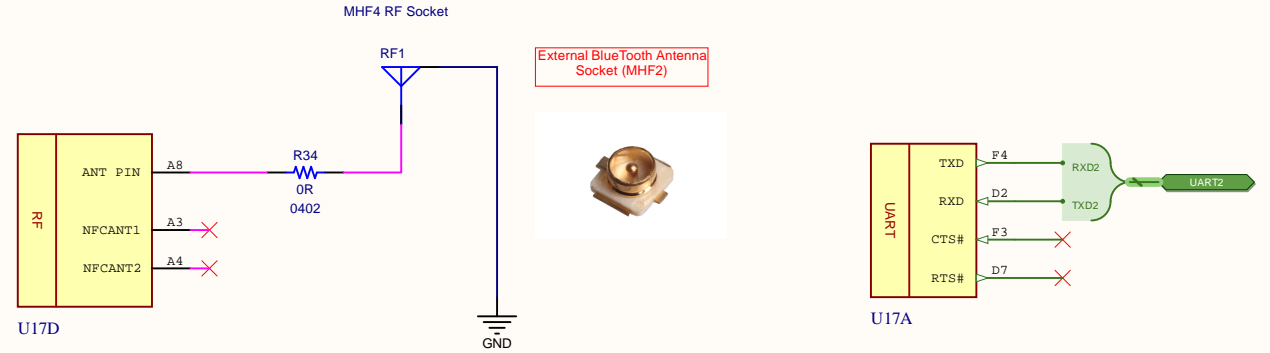
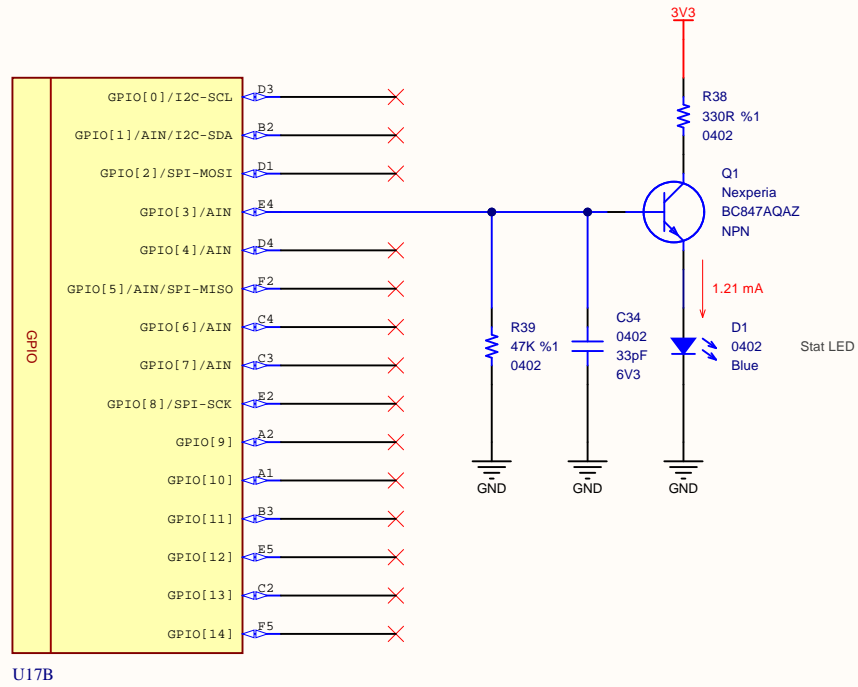
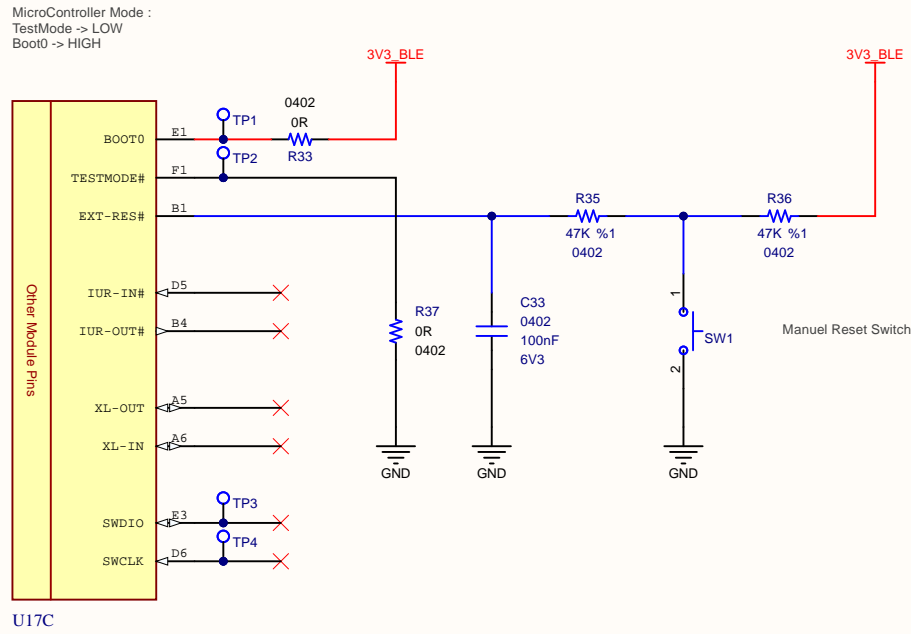
Module Input Sockets



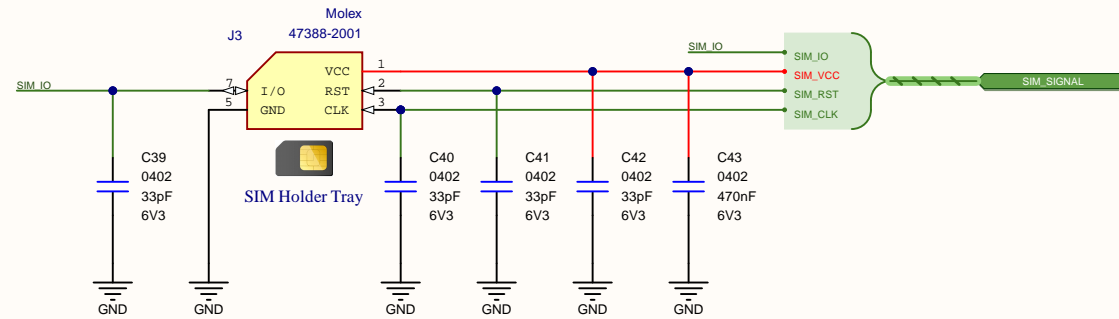
Analog Pressure Sensor Output Sockets




Title Pressure Sensor Output Sockets			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:22	Sheet 7 of *		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Pressure Sensor Output Sockets.SchDoc				

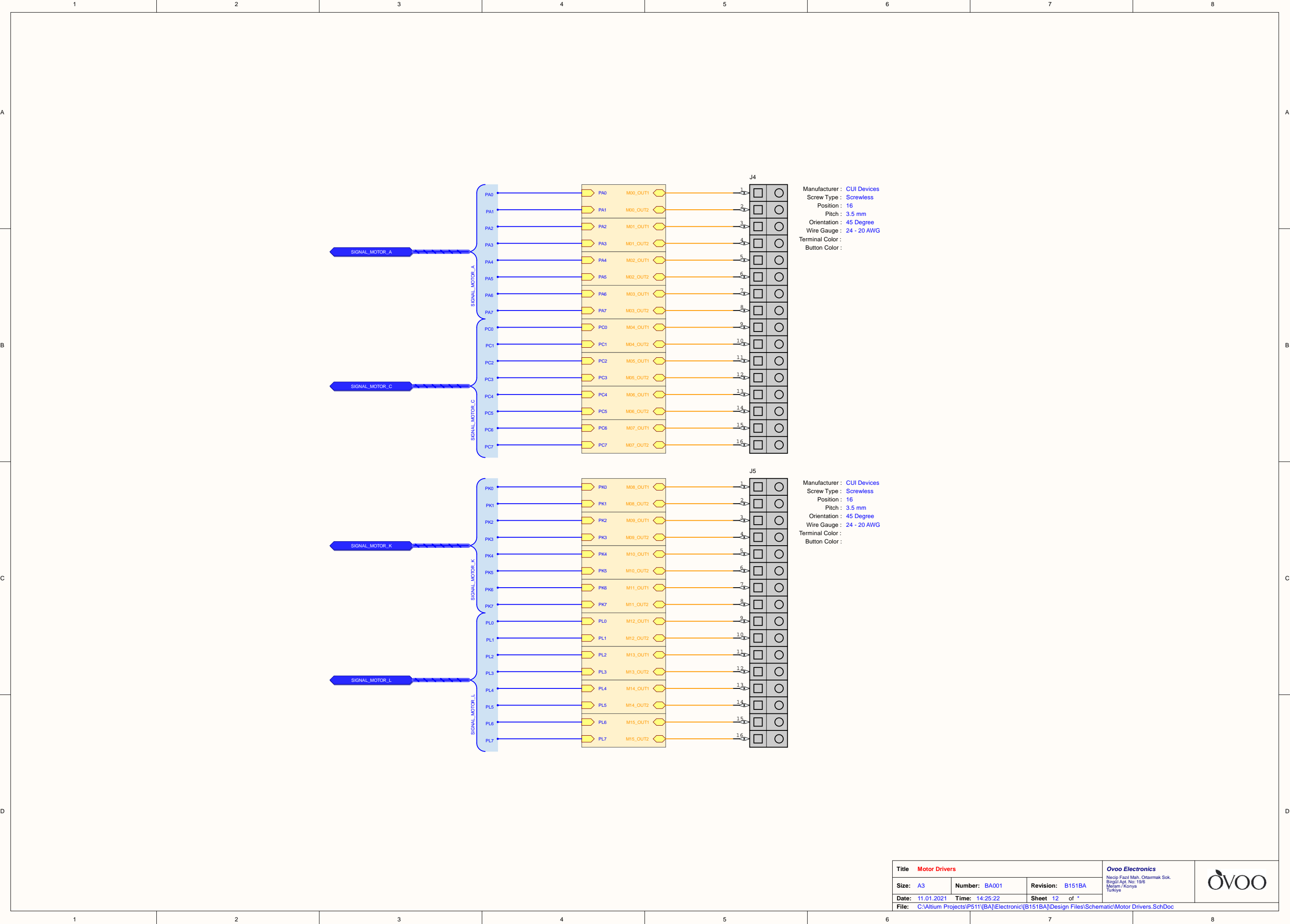


OnBoard Sim Tray

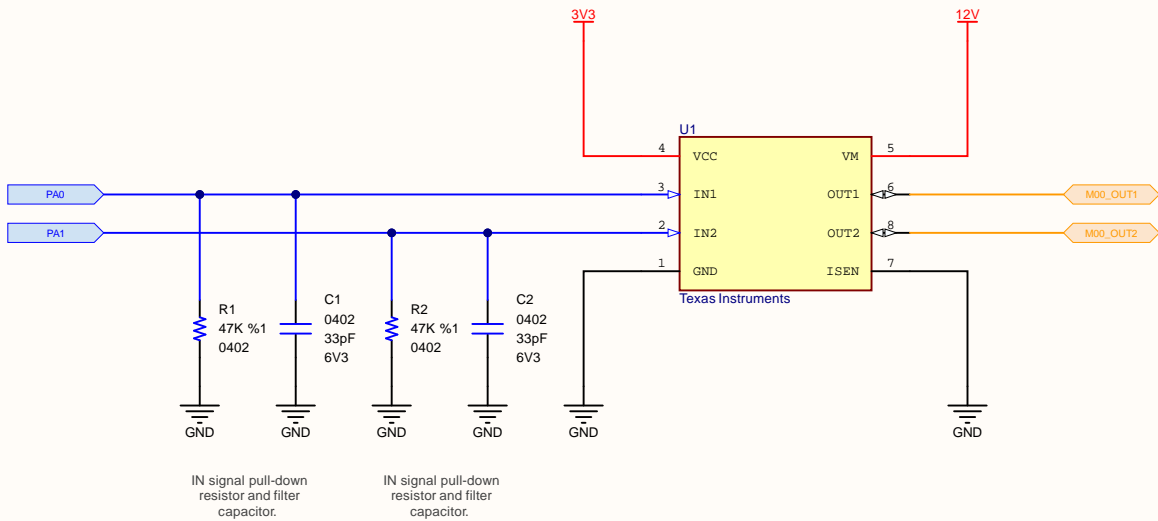



SIM_VCC capacitor is
chosed according Telit
SIM integration guide.

Title External SIM Tray			Ovoo Electronics		
Size: A4	Number: BA001	Revision: B151BA	Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye		
Date: 11.01.2021	Time: 14:25:22	Sheet 9 of *			
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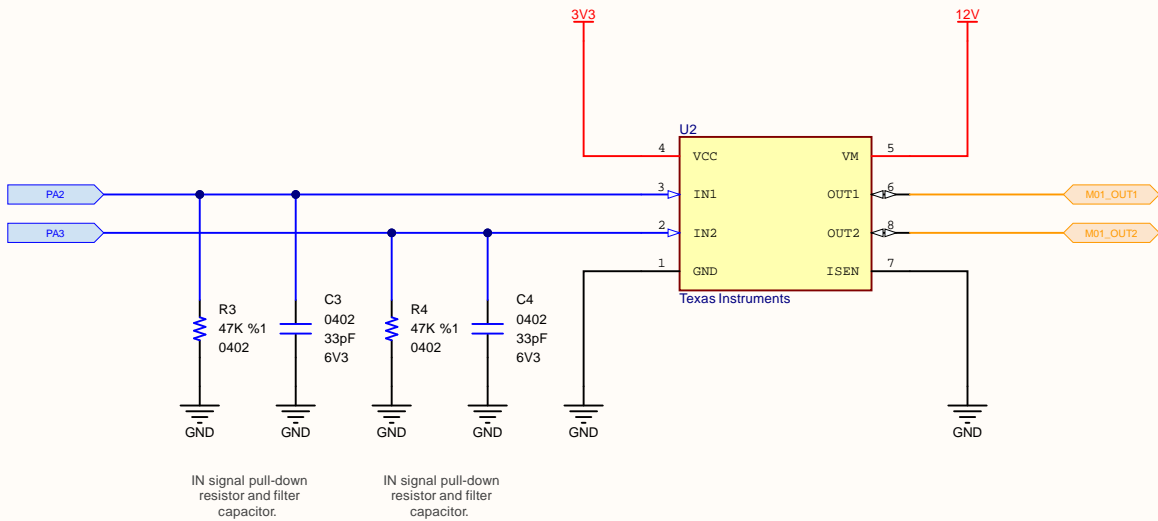


Solenoid Driver 01

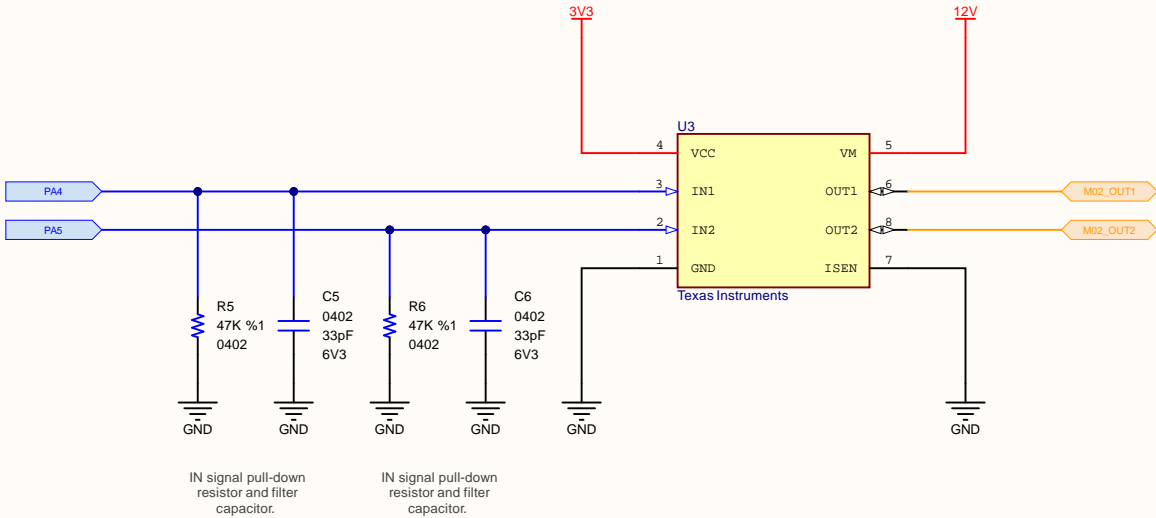



Title Solenoid 00 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:22	Sheet 13 of *		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 00 Driver.SchDoc				

Solenoid Driver 02

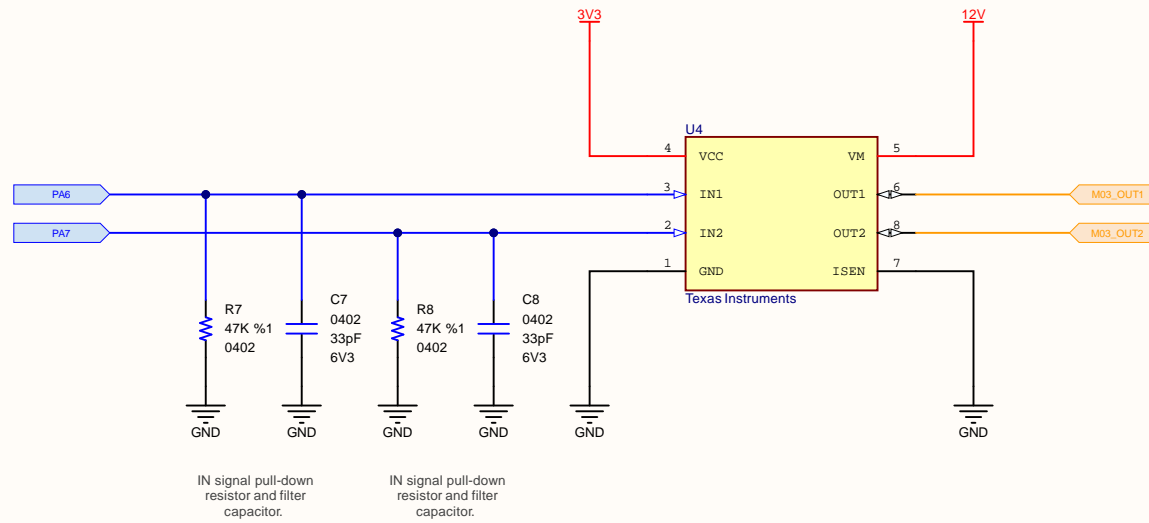



Solenoid Driver 03



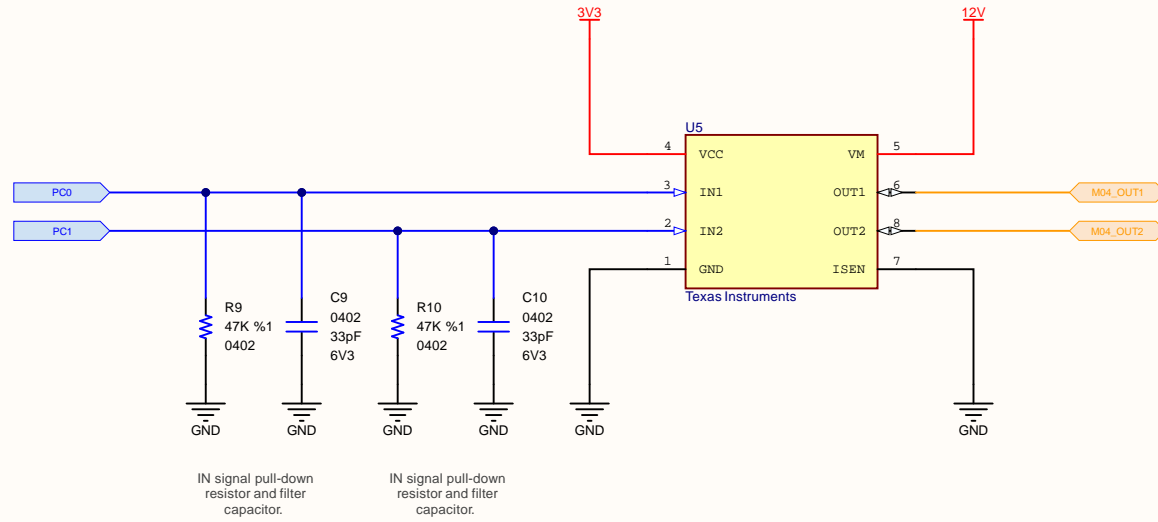
Title Solenoid 02 Driver			Ovoo Electronics		
			Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye		
Size: A4	Number: BA001	Revision: B151BA			
Date: 11.01.2021	Time: 14:25:23	Sheet 15 of *			
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 02 Driver.SchDoc					


Solenoid Driver 04



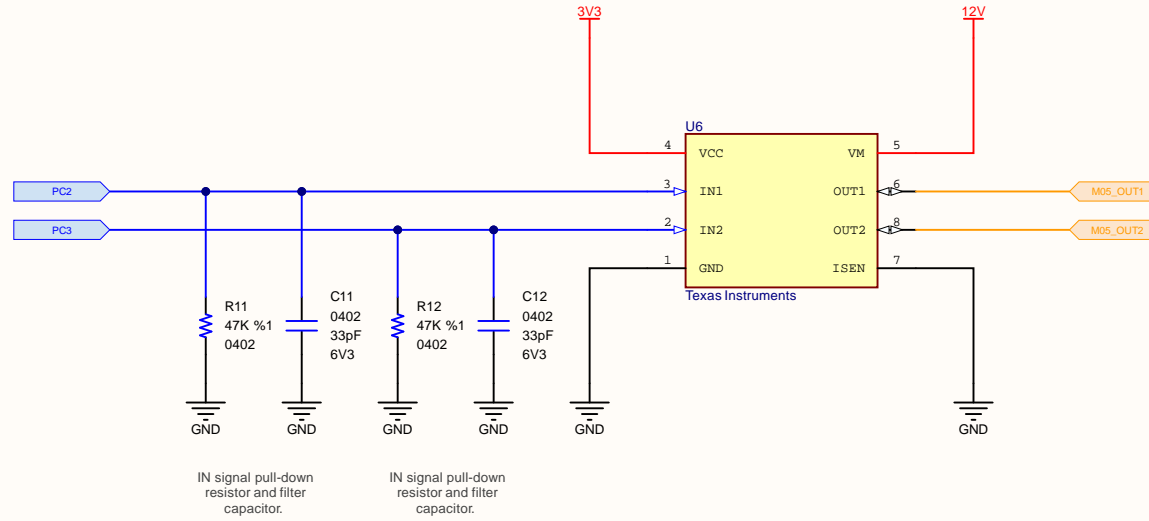
Title Solenoid 03 Driver			Ovoo Electronics		
Size: A4	Number: BA001	Revision: B151BA	Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye		
Date: 11.01.2021	Time: 14:25:23	Sheet 16 of *			
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 03 Driver.SchDoc					


Solenoid Driver 05



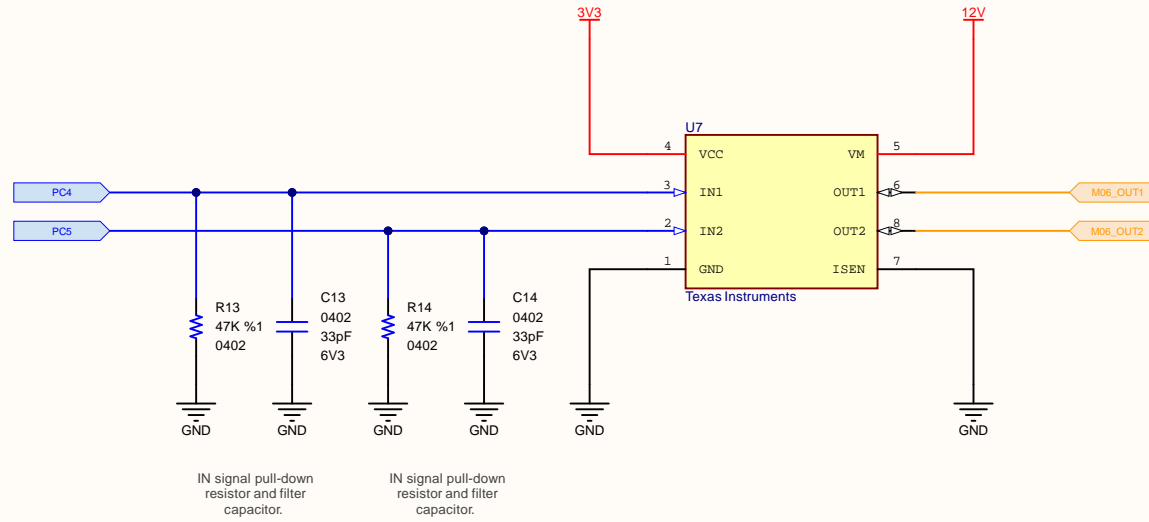
Title Solenoid 04 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:23	Sheet 17 of *		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 04 Driver.SchDoc				


Solenoid Driver 06



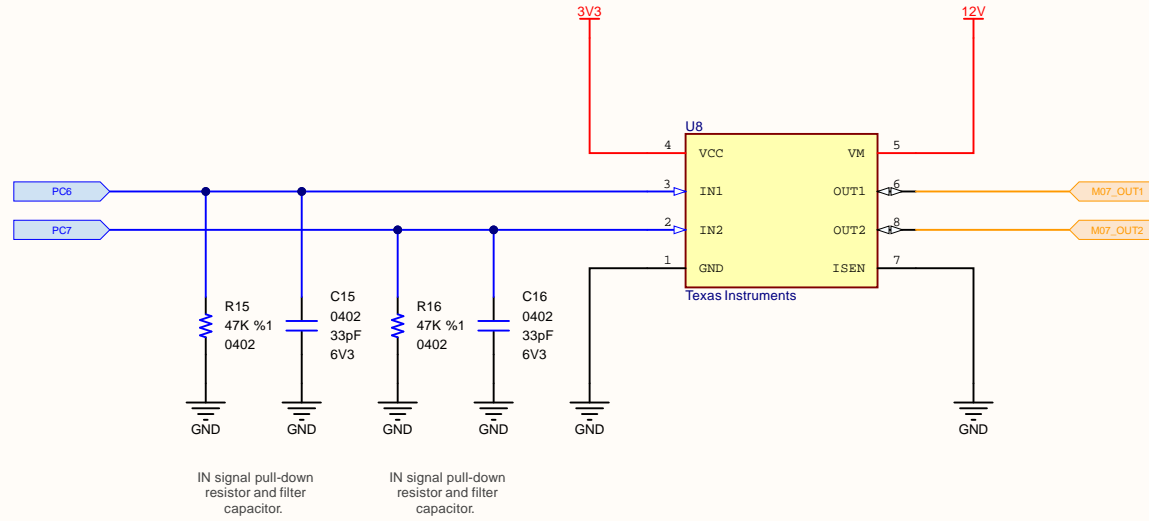
Title Solenoid 05 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:23	Sheet 18 of *		
File: C:\Altium Projects\PS11\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 05 Driver.SchDoc				


Solenoid Driver 07



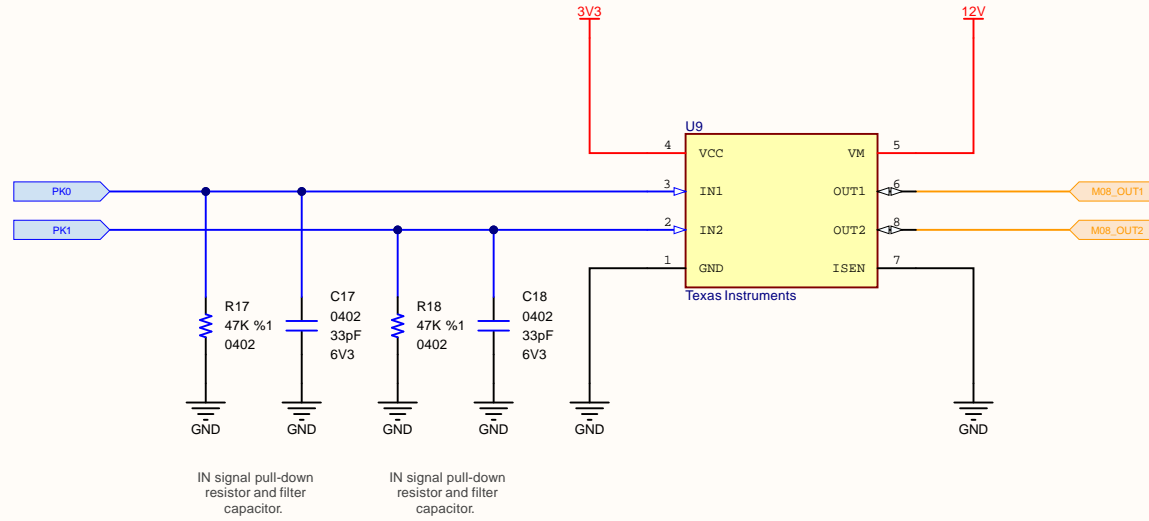
Title Solenoid 06 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:23	Sheet 19 of *		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 06 Driver.SchDoc				


Solenoid Driver 08



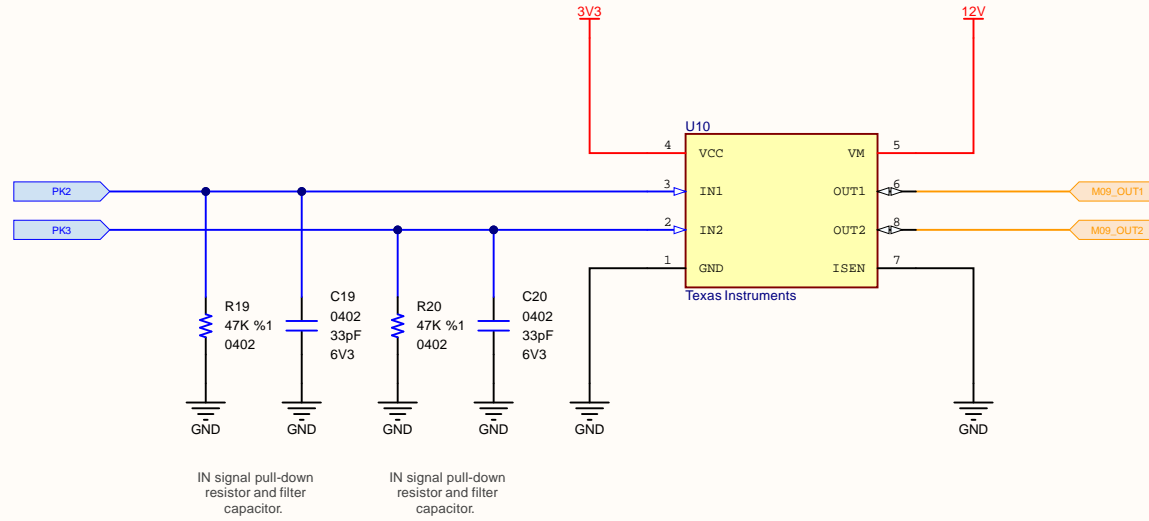
Title Solenoid 07 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:23	Sheet 20 of *		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 07 Driver.SchDoc				

Solenoid Driver 09

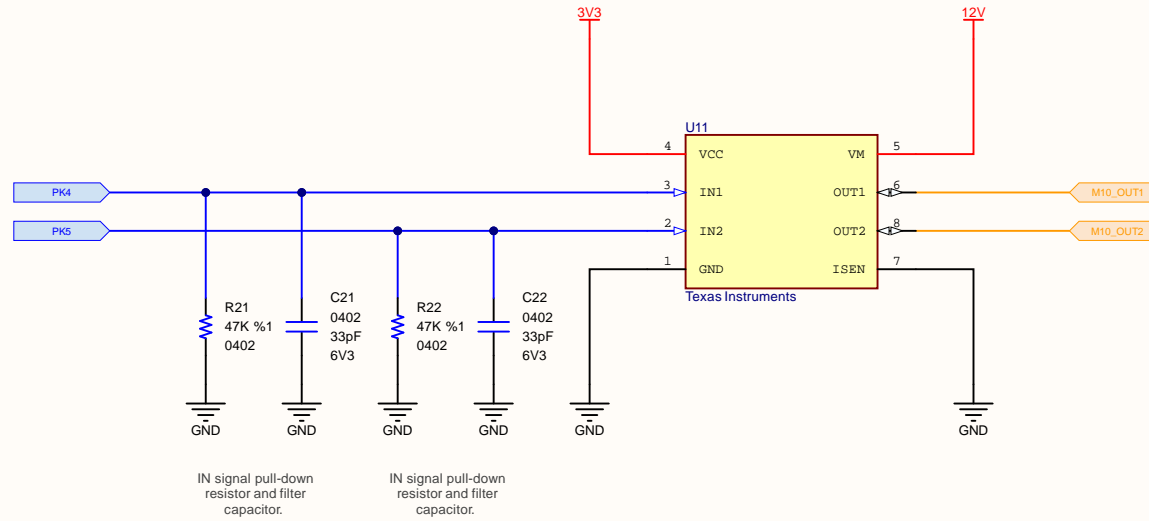


Title Solenoid 08 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:23	Sheet 21 of *		
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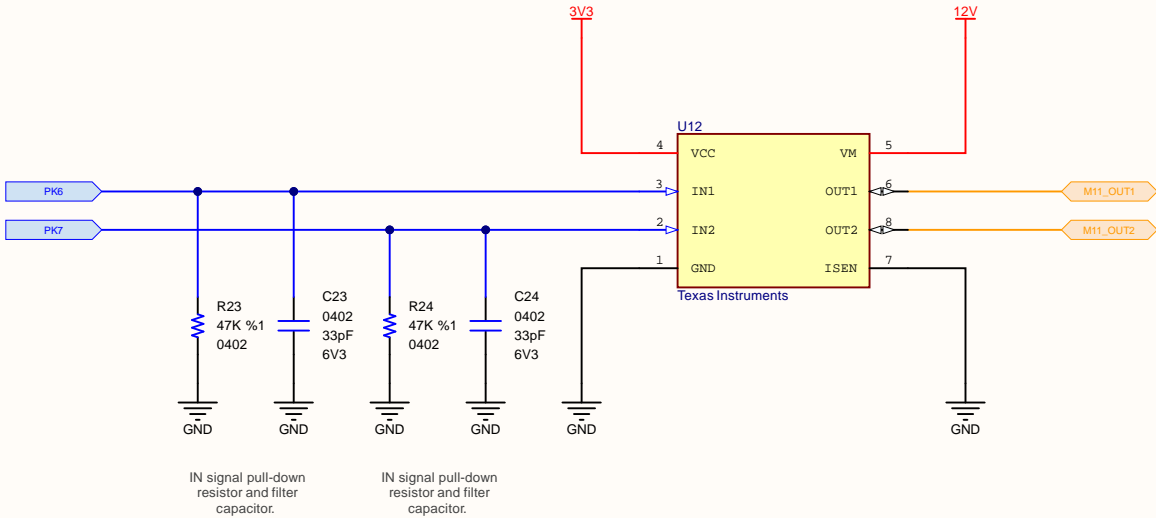
Solenoid Driver 10



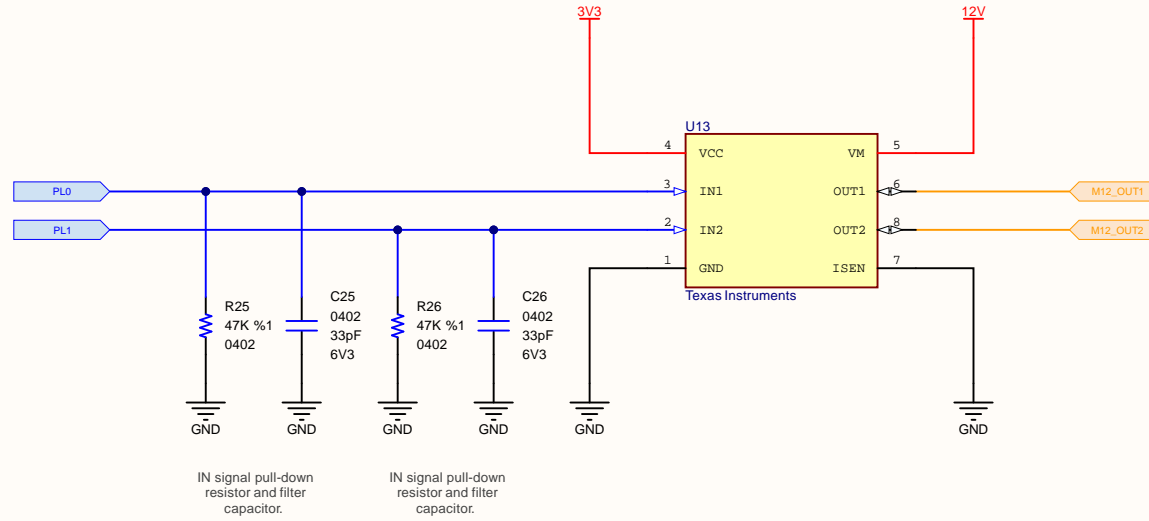
Solenoid Driver 11



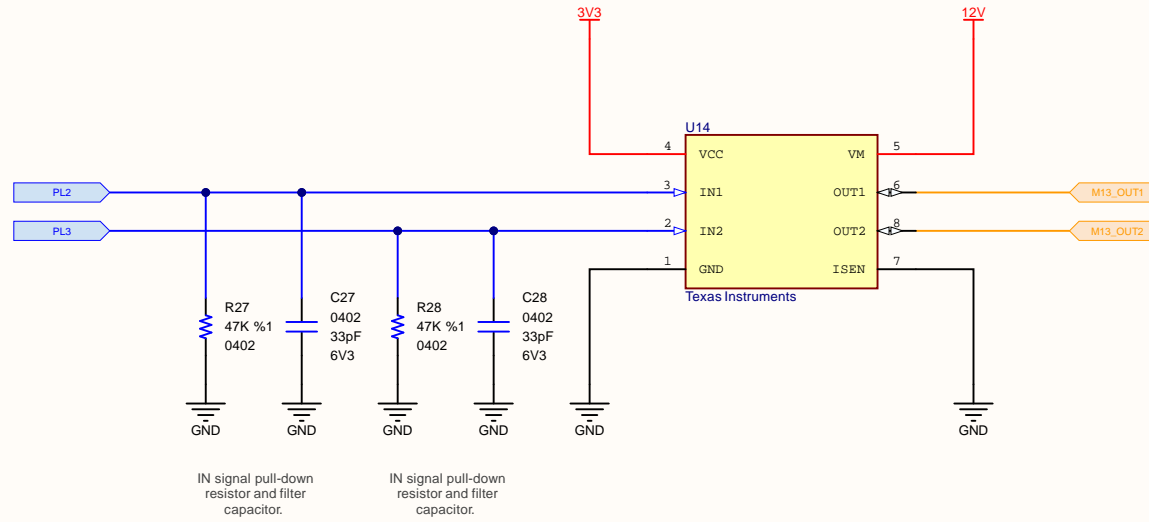
Solenoid Driver 12




Solenoid Driver 13

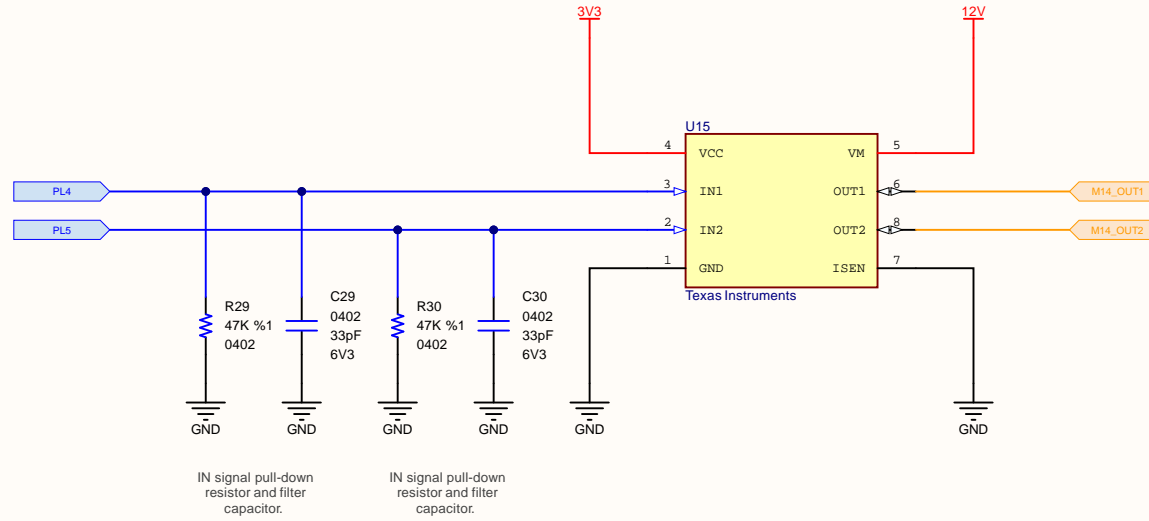


Solenoid Driver 14



Title Solenoid 13 Driver			Ovoo Electronics Necip Fazıl Mah. Ortarmak Sok. Bırgölü Apt. No: 19/6 Meram / Konya Türkiye	
Size: A4	Number: BA001	Revision: B151BA		
Date: 11.01.2021	Time: 14:25:23	Sheet 26 of *		
File: C:\Altium Projects\P511\BA\Electronic\B151BA\Design Files\Schematic\Solenoid 13 Driver.SchDoc				

Solenoid Driver 15



Solenoid Driver 16

