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D	U4	http://www.advanced-monolithic.com/pdf/ds1117.pdf
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D	D1	~
D	D2	https://www.vishay.com/
D	R1	~
D	R2	~
D	Q1	https://www.onsemi.com/pub/Collateral/FDN359BN-D.pdf
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D	U2	
D	C5	~
D	C4	~
D	U5	http://www.advanced-monolithic.com/pdf/ds1117.pdf
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D	R5	~
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/components/comp/footprint

Connector BarrelJack:BarrelJack Horizontal

Package TO SOT SMD:SOT-223-3 TabPin2

Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Diode_SMD:D_SOD-323_HandSoldering

Diode SMD:D SOD-323 HandSoldering

Resistor SMD:R 0603 1608Metric Pad1.05x0.95mm HandSolder

Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Package_TO_SOT_SMD:SOT-23

Diode SMD:D SOD-323 HandSoldering

Package_DFN_QFN:QFN-16-1EP_3x3mm_P0.5mm_EP1.8x1.8mm

Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Capacitor SMD:C 0603 1608Metric Pad1.05x0.95mm HandSolder

Package_TO_SOT_SMD:SOT-223-3_TabPin2

Capacitor_SMD:C_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Resistor_SMD:R_0603_1608Metric_Pad1.05x0.95mm_HandSolder

Package_TO_SOT_SMD:SOT-23

Connector_Phoenix_GMSTB:PhoenixContact_GMSTBA_2,5_2-G_1x02_P7.50mm_Horizontal

Connector_Phoenix_GMSTB:PhoenixContact_GMSTBA_2,5_5-G-7,62_1x05_P7.62mm_Horizontal

 $Connector_Phoenix_GMSTB:PhoenixContact_GMSTBA_2,5_3-G_1x03_P7.50mm_Horizontal$

Package_SO:SOIC-14_3.9x8.7mm_P1.27mm

Diode_SMD:D_0603_1608Metric

Resistor SMD:R 0603 1608Metric Pad1.05x0.95mm HandSolder

/components/comp/libsource/@description

DC Barrel Jack with an internal switch

1A Low Dropout regulator, positive, 5.0V fixed output, SOT-223

Polarized capacitor

Polarized capacitor

Bidirectional transient-voltage-suppression diode

Zener diode

Resistor

Resistor

170A Id, 25V Vds, 1.2mOhm Rds, N-Channel MOSFET, DirectFET MX

Schottky diode

Unpolarized capacitor

Unpolarized capacitor

1A Low Dropout regulator, positive, 3.3V fixed output, SOT-223

Polarized capacitor

Resistor

Resistor

33A Id, 40V Vds, N-Channel TrenchMOS MOSFET, 21mOhm Ron, 10.7nC Qqd, -55 to 175 °C, LFPAK33 Generic screw terminal, single row, 01x02, script generated (kicad-library-utils/schlib/autogen/connector/) Generic connector, single row, 01x05, script generated (kicad-library-utils/schlib/autogen/connector/) Generic connector, single row, 01x03, script generated (kicad-library-utils/schlib/autogen/connector/) PIC16F505, 1024W FLASH, 72B SRAM, SO14

Light emitting diode

Resistor

/components/comp/libsource/@lib	/components/comp/libsource/@part	/compone /compon
Connector	Barrel_Jack_Switch	/ /
Regulator_Linear	AMS1117-5.0	/ /
Device	СР	/ /
Device	СР	/ /
Device	D_TVS	/ /
Device	D_Zener	/ /
Device	R	/ /
Device	R	/ /
Transistor_FET	FDN359BN	/ /
Device	D_Schottky	/ /
hmc5883l	HMC5883L	/ /
Device	С	/ /
Device	С	/ /
Regulator_Linear	AMS1117-3.3	/ /
Device	СР	/ /
Device	R	/ /
Device	R	/ /
Transistor_FET	FDN359BN	/ /
Connector	Screw_Terminal_01x02	/ /
Connector	Conn_01x05_Male	/ /
Connector	Conn_01x03_Male	/ /
MCU_Microchip_PIC16	PIC16F505-ISL	/ /
Device	LED	/ /
Device	R	/ /

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5CB2B0D2	Barrel_Jack_Switch		
5CB2B9A2	AMS1117-5.0		
5CB2BA49	22uF		
5CB2BA9D	22uF		
5CB2C801	CDSOD323-T12C		
5CB2C8BB	GDZ5V1B		
5CB2C92A	9.1k		
5CB2C990	6.8k		
5CB2CA27	FDN359BN		
5CB2DE98	D_Schottky_SD0603S020S0R3		
5CB3132D	HMC5883L		
5CB33668	0.22uF		
5CB34FF7	4.7uF		
5CB37421	AMS1117-3.3		
5CB375F2	22uF		
5CB3C7CA	4.7k		
5CB3C84C	4.7k		
5CB4A0C2	FDN359BN		
5CB4C3F5	Ext LED (12V)		
5CB4FCDC	ICSP		
5CB7D812	Ext I/P		
5CB9F7C7	PIC16F505-ISL		
5CBA6E49	LED		
5CBA720C	560)	
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		04/27/19 09:3	3/

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SS	17-04-19
SS	17-04-19
SS	17-04-19

parking_sense_1.sch parking_sense_1.sch parking_sense_1.sch parking_sense_1.sch Schematic for vehicle indicator Schematic for vehicle indicator Schematic for vehicle indicator Schematic for vehicle indicator C:\KiCAD\tutoria Eeschema (5.C C:\KiCAD\tutoria Eeschema (5.C C:\KiCAD\tutoria Eeschema (5.C C:\KiCAD\tutoria Eeschema (5.C C:\KiCAD\tutoria Eeschema (5.C

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).2)-1

).2)-1

).2)-1

1 Connector	Barrel_Jack_Switch
1 Connector	Barrel_Jack_Switch
2 Connector	Conn_01x03_Male
3 Connector	Conn_01x05_Male

3 Connector Conn_01x05_Male
3 Connector Conn_01x05_Male
3 Connector Conn_01x05_Male
4 Connector Screw_Terminal_01x02
4 Connector Screw_Terminal_01x02

4 Connector Screw_Terminal_01x02
4 Connector Screw_Terminal_01x02
4 Connector Screw_Terminal_01x02

5 Device C C 5 Device C 5 Device С 5 Device 5 Device С 6 Device CP CP 6 Device CP 6 Device CP 6 Device

CP 6 Device 7 Device D_Schottky 7 Device D_Schottky

7 Device D_Schottky 8 Device D_TVS 8 Device D_TVS 8 Device D_TVS 8 Device D_TVS 8 Device D_TVS 8 Device D_TVS 8 Device D_TVS 8 Device D_TVS

9 Device D_Zener

D_Zener

9 Device

10 Device LED

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LED
10 Device
10 Device
                        LED
11 Device
                        R
12 MCU_Microchip_PIC16 PIC16F505-ISL
                                                PIC16C505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
12 MCU Microchip PIC16 PIC16F505-ISL
12 MCU_Microchip_PIC16 PIC16F505-ISL
13 Regulator Linear
                        AP1117-15
                                                AP1117-18
13 Regulator_Linear
                        AP1117-15
                                                AP1117-25
13 Regulator Linear
                                                AP1117-33
                        AP1117-15
13 Regulator_Linear
                        AP1117-15
                                                AP1117-50
13 Regulator Linear
                        AP1117-15
                                                LD1117S33TR SOT223
13 Regulator_Linear
                        AP1117-15
                                                LD1117S12TR_SOT223
                                                LD1117S18TR_SOT223
13 Regulator Linear
                        AP1117-15
13 Regulator Linear
                                                LD1117S25TR_SOT223
                        AP1117-15
                                                LD1117S50TR_SOT223
13 Regulator_Linear
                        AP1117-15
13 Regulator_Linear
                        AP1117-15
                                                NCP1117-12_SOT223
13 Regulator Linear
                                                NCP1117-1.5 SOT223
                        AP1117-15
13 Regulator Linear
                        AP1117-15
                                                NCP1117-1.8_SOT223
                                                NCP1117-2.0 SOT223
13 Regulator Linear
                        AP1117-15
13 Regulator Linear
                        AP1117-15
                                                NCP1117-2.5 SOT223
                                                NCP1117-2.85 SOT223
13 Regulator Linear
                        AP1117-15
13 Regulator_Linear
                                                NCP1117-3.3 SOT223
                        AP1117-15
                                                NCP1117-5.0_SOT223
13 Regulator_Linear
                        AP1117-15
13 Regulator_Linear
                        AP1117-15
                                                AMS1117-1.5
13 Regulator Linear
                                                AMS1117-1.8
                        AP1117-15
13 Regulator_Linear
                        AP1117-15
                                                AMS1117-2.5
13 Regulator_Linear
                        AP1117-15
                                                AMS1117-2.85
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13 Regulator_Linear	AP1117-15	AMS1117-3.3
13 Regulator Linear	AP1117-15	AMS1117-5.0
13 Regulator_Linear	AP1117-15	
13 Regulator Linear	AP1117-15 AP1117-15	
· -		
13 Regulator_Linear	AP1117-15	DCDO4 2NE2LVI
14 Transistor_FET	BSB008NE2LX	BSB012NE2LXI
14 Transistor_FET	BSB008NE2LX	BSB013NE2LXI
14 Transistor_FET	BSB008NE2LX	BSB014N04LX3
14 Transistor_FET	BSB008NE2LX	BSB015N04NX3
14 Transistor_FET	BSB008NE2LX	IRF6616
14 Transistor_FET	BSB008NE2LX	IRF6620
14 Transistor_FET	BSB008NE2LX	IRF6628
14 Transistor_FET	BSB008NE2LX	IRF6635
14 Transistor_FET	BSB008NE2LX	IRF6714M
14 Transistor_FET	BSB008NE2LX	IRF6715M
14 Transistor_FET	BSB008NE2LX	IRF6716M
14 Transistor_FET	BSB008NE2LX	IRF6717M
14 Transistor_FET	BSB008NE2LX	IRF6724M
 14 Transistor_FET	BSB008NE2LX	IRF6725M
 14 Transistor_FET	BSB008NE2LX	IRF6727M
14 Transistor_FET	BSB008NE2LX	IRF6728M
14 Transistor_FET	BSB008NE2LX	IRF6795M
14 Transistor FET	BSB008NE2LX	IRF6797M
14 Transistor_FET	BSB008NE2LX	IRF6798M
14 Transistor_FET	BSB008NE2LX	IRF6893M
14 Transistor_FET	BSB008NE2LX	IRF6894M
14 Transistor_FET	BSB008NE2LX	
-		IRF6898M
14 Transistor_FET	BSB008NE2LX	IRF7946
14 Transistor_FET	BSB008NE2LX	IRF8302M
14 Transistor_FET	BSB008NE2LX	IRF8304M
14 Transistor_FET	BSB008NE2LX	IRF8306M
14 Transistor_FET	BSB008NE2LX	IRF8308M
14 Transistor_FET	BSB008NE2LX	
15 Transistor_FET	BUK9M53-60EX	BUK9M85-60EX
15 Transistor_FET	BUK9M53-60EX	BUK7M45-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M52-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M42-60EX
	_ 5555 6627.	20.02 002/

15 Transistor_FET	BUK9M53-60EX	BUK9M14-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M24-60EX
15 Transistor_FET	BUK9M53-60EX	BUK9M10-30EX
15 Transistor_FET	BUK9M53-60EX	BUK9M11-40EX
15 Transistor_FET	BUK9M53-60EX	BUK7M10-40EX
15 Transistor_FET	BUK9M53-60EX	BUK7M15-60EX
15 Transistor_FET	BUK9M53-60EX	BUK7M19-60EX
15 Transistor_FET	BUK9M53-60EX	BUK9M9R1-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M6R6-30EX
15 Transistor_FET	BUK9M53-60EX	BUK9M12-60EX
15 Transistor_FET	BUK9M53-60EX	BUK7M9R9-60EX
15 Transistor_FET	BUK9M53-60EX	BUK7M42-60EX
15 Transistor_FET	BUK9M53-60EX	BUK9M156-100EX
15 Transistor_FET	BUK9M53-60EX	BUK7M33-60EX
15 Transistor_FET	BUK9M53-60EX	BUK7M21-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M43-100EX
15 Transistor_FET	BUK9M53-60EX	BUK7M12-60EX
15 Transistor_FET	BUK9M53-60EX	BUK9M15-60EX
15 Transistor_FET	BUK9M53-60EX	BUK7M27-80EX
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15 Transistor_FET	BUK9M53-60EX	BUK9M7R2-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M34-100EX
15 Transistor_FET	BUK9M53-60EX	BUK9M23-80EX
15 Transistor_FET	BUK9M53-60EX	BUK7M67-60EX
15 Transistor_FET	BUK9M53-60EX	BUK9M24-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M120-100EX
15 Transistor_FET	BUK9M53-60EX	BUK9M17-30EX
15 Transistor_FET	BUK9M53-60EX	BUK7M12-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M28-80EX
15 Transistor_FET	BUK9M53-60EX	BUK7M8R0-40EX
15 Transistor_FET	BUK9M53-60EX	BUK9M35-80EX
15 Transistor_FET	BUK9M53-60EX	BUK7M6R3-40EX
15 Transistor_FET	BUK9M53-60EX	BUK7M22-80EX
15 Transistor_FET	BUK9M53-60EX	
16 hmc5883l	HMC5883L	
16 hmc5883l	HMC5883L	
16 hmc5883l	HMC5883L	

16 hmc5883l	HMC5883L
16 hmc5883l	HMC5883L

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DC Barrel Jack with an internal 5~
                                                        Barrel_Jack_Switch
DC Barrel Jack with an internal 5~
DC Barrel Jack with an internal <?
DC Barrel Jack with an internal 5~
DC Barrel Jack with an internal <?
DC Barrel Jack with an internal <?
Generic connector, single row, (~
Generic connector, single row, (~
                                                        Conn_01x03_Male
Generic connector, single row, (~
                                                        Conn_01x05_Male
Generic connector, single row, (~
Generic connector, single row, (~
Generic connector, single row, (~
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Generic connector, single row,	(~	
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Generic connector, single row,	(~	
Generic screw terminal, single		J
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Generic screw terminal, single		Screw_Terminal_01x02
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Generic screw terminal, single	r~	
Generic screw terminal, single	r~	
Unpolarized capacitor	~	С
Unpolarized capacitor	~	С
Unpolarized capacitor	~	_
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Unpolarized capacitor		
Unpolarized capacitor	.~	_
Polarized capacitor	~	С
Polarized capacitor	~	СР
Polarized capacitor	~	
Polarized capacitor	~	
Polarized capacitor	~	
Schottky diode	~	D
•	~	_
Schottky diode	~	D_Schottky
Schottky diode		
Schottky diode	~	
Bidirectional transient-voltage	_,~	D
Bidirectional transient-voltage		D_TVS
Bidirectional transient-voltage		2_143
_		
Bidirectional transient-voltage	-(~	
Bidirectional transient-voltage-	-(~	
Zener diode	~	D
Zener diode	~	D_Zener
Zener diode	~	_
Zener diode	~	
Zener diode	~	
	~	
Zener diode		
Zener diode	~	
Zener diode	~	
Light emitting diode	~	D
Light emitting diode	~	LED
Light emitting diode	~	
Light emitting diode	~	
Light emitting diode	~	
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Light emitting diode
Light emitting diode
Resistor
                                                   R
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Resistor
Resistor
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Resistor
PIC16F505, 1024W FLASH, 72B http://ww1.microchip.com/downloads/en/DeviceDoc/4
PIC16F505, 1024W FLASH, 72B http://ww1.microchip.ccU
PIC16F505, 1024W FLASH, 72B http://ww1.microchip.ccPIC16F505-ISL
PIC16F505, 1024W FLASH, 72B http://ww1.microchip.com/downloads/en/DeviceDoc/4
1A Low Dropout regulator, posi http://www.diodes.com/datasheets/AP1117.pdf
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1A Low Dropout regulator, posi http://www.diodes.com/datasheets/AP1117.pdf
1A Low Dropout regulator, posi http://www.diodes.com/datasheets/AP1117.pdf
1A Low Dropout regulator, posi http://www.diodes.com U
1A Low Dropout regulator, posi http://www.diodes.com AP1117-15
1A Low Dropout regulator, posi http://www.diodes.com Package TO SOT SMD:SOT-22
1A Low Dropout regulator, posi http://www.diodes.com/datasheets/AP1117.pdf
180A Id, 25V Vds, 0.8mOhm Rd: https://www.infineon.com/dgdl/Infineon-BSB008NE2LX
180A Id, 25V Vds, 0.8mOhm Rd https://www.infineon.ccQ
180A Id, 25V Vds, 0.8mOhm Rd https://www.infineon.cc BSB008NE2LX
180A Id, 25V Vds, 0.8mOhm Rd: https://www.infineon.com/dgdl/Infineon-BSB008NE2LX
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17A Id, 60V Vds, N-Channel Trei https://assets.nexperia.com/documents/data-sheet/BU
17A Id, 60V Vds, N-Channel Trei https://assets.nexperia.com/documents/data-sheet/BU
17A Id, 60V Vds, N-Channel Trei https://assets.nexperia.com/documents/data-sheet/BU
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Reference

Value

BarrelJack*

Reference

Value

Connector*:*_1x??_*

Pin_1

Pin_2

Pin_3

Reference

Value

Connector*:*_1x??_*

Pin_1

Pin_2

Reference		Pin_3 Pin_4 Pin_5
Value	TerminalBlock*:*	Pin_1 Pin_2
Reference Value	C_*	~
Reference Value	CP_*	~
Reference Value	TO 2224	~ ~
	TO-???* *_Diode_* *SingleDiode* D_*	
Reference Value		K A
	TO-???* *_Diode_* *SingleDiode* D_*	
Reference Value		A1 A2
	TO-???* *_Diode_* *SingleDiode* D_*	
Reference Value		K A
	LED* LED_SMD:* LED_THT:*	

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		Α
Reference		
Value		
	R_*	
		~
		~
l1236E.pdf		
Reference		
Value		
l1236E.pdf	SO*	
l1236E.pdf	SOIC*	
l1236E.pdf		VDD
l1236E.pdf		CLKIN/OSC1/RB5
l1236E.pdf		CLKOUT/OSC2/RB4
l1236E.pdf		Vpp/~MCLR~/RB3
l1236E.pdf		RC5/T0CKI
l1236E.pdf		RC4
l1236E.pdf		RC3
l1236E.pdf		RC2
l1236E.pdf		RC1
l1236E.pdf		RC0
l1236E.pdf		RB2
l1236E.pdf		ICSPCLK/RB1
l1236E.pdf		ICSPDAT/RB0
l1236E.pdf		VSS

Reference Value Footprint

SOT?223*TabPin2*

GND VO

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Value

Footprint

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Value		

VDD

NC

S1

NC

NC

NC

SETP

GND

C1

GND

SETC

VDDIO

NC

DRDY

SDA

- 1 passive
- 2 passive
- 3 passive
- 1 passive
- 2 passive
- 3 passive
- 1 passive
- 2 passive

- 3 passive
- 4 passive
- 5 passive
- 1 passive
- 2 passive
- 1 passive
- 2 passive
- 1 passive
- 2 passive

- 1 passive
- 2 passive

- 1 passive
- 2 passive

- 1 passive
- 2 passive

- 1 passive
- 2 passive
- 1 passive
- 2 passive
- 1 power_in
- 2 BiDi
- 3 BiDi
- 4 input
- 5 BiDi
- 6 BiDi
- 7 BiDi
- 8 BiDi
- 9 BiDi
- 10 BiDi
- 11 BiDi
- 12 BiDi
- 13 BiDi
- 14 power_in

- 1 power_in
- 2 power_out
- 3 power_in

- 1 passive
- 2 input
- 3 passive

- 1 passive
- 2 passive
- 3 passive
- 4 passive
- 5 passive

- 2 power_in
- 3 NotConnected
- 4 power_in
- 5 NotConnected
- 6 NotConnected
- 7 NotConnected
- 8 BiDi
- 9 power_in
- 10 BiDi
- 11 power_in
- 12 BiDi
- 13 power_in
- 14 NotConnected
- 15 BiDi
- 16 BiDi

Connector
Device
MCU_Microchip_PIC16
Regulator_Linear
Transistor_FET
hmc5883I

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1	1 GND	1
1	1 GND	14
1	1 GND	2
1	1 GND	3
1	1 GND	2
1	1 GND	2
1	1 GND	1
1	1 GND	3
1	1 GND	1
1	1 GND	2
1	1 GND	2
1	1 GND	2
1	1 GND	5
1	1 GND	9
1	1 GND	11
2	2 Net-(J2-Pad1)	2
2	2 Net-(J2-Pad1)	1
2	2 Net-(J2-Pad1)	3
2	2 Net-(J2-Pad1)	1
3	3 Vdd	4
3	3 Vdd	13
3	3 Vdd	2
3	3 Vdd	1
3	3 Vdd	2
3	3 Vdd	1

5

1 GND

3	3 Vdd	1
4	4 Vin	1
4	4 Vin	1
4	4 Vin	3
4	4 Vin	2
4	4 Vin	1
4	4 Vin	2
4	4 Vin	1
4	4 Vin	1
5	5 SDA	2
5	5 SDA	9
5	5 SDA	16
6	6 SCL	1
6	6 SCL	2
6	6 SCL	10
7	7 Net-(U1-Pad11)	11
8	8 Net-(U1-Pad2)	2
9	9 Net-(U1-Pad3)	3
10	10 Net-(U1-Pad5)	5
11	11 OP1	7
11	11 OP1	4
12	12 IP	8
12	12 IP	1
13	13 Vcc	1
13	13 Vcc	1
13	13 Vcc	2
13	13 Vcc	3
13	13 Vcc	2
13	13 Vcc	1
14	14 Net-(D4-Pad1)	1
14	14 Net-(D4-Pad1)	1
15	15 Ledpin	2
15	15 Ledpin	6
16	16 Vpp	2
16	16 Vpp	4
17	17 CLK	12
17	17 CLK	3
18	18 DATA	4
18	18 DATA	13
19	19 GND1	3
19	19 GND1	1
19	19 GND1	2
19	19 GND1	2
20	20 Net-(D2-Pad1)	1
20	20 Net-(D2-Pad1)	2
20	20 Net-(D2-Pad1)	2
20	20 Net-(D2-Pad1)	1
	,	

21	21 Net-(C5-Pad2)	2
21	21 Net-(C5-Pad2)	12
22	22 Net-(U2-Pad15)	15
23	23 Net-(C5-Pad1)	8
23	23 Net-(C5-Pad1)	1
24	24 Net-(U2-Pad14)	14
25	25 Net-(C4-Pad2)	2
25	25 Net-(C4-Pad2)	10
26	26 Net-(U2-Pad3)	3
27	27 Net-(U2-Pad5)	5
28	28 Net-(U2-Pad6)	6
29	29 Net-(U2-Pad7)	7

/nets/net/node/@ref

J4

C4

U1 D2

Q1

D3

R2

U5

J3

U4

C1

C2 C3

Q2

U2

U2

Q2

Q2

Q2 J2

U2

U2

U5 R4

U2

R3

С3

R1

D3

U4

J3 C1

J2

D1

J1

R4

U1

U2

U2

R3

U1

U1 U1

U1

U1

U1 Q2

U1

J3

J4 U1

D4

U5

U4

C2

D4

R5

R5

U1 J4

U1

U1

J4

J4 U1

J1

Q1

J1

D1

D2

Q1 R1

R2

C5

U2

U2

U2

C5

U2

C4

U2

U2

U2

U2

U2