

Item	Nome	Valor	Dispositivo	Package	Descrição
1	3V3_FR	TPSPAD1-13Y	TPSPAD1-13Y	P1-13Y	TEST PIN
2	5V_FR	TPSPAD1-13Y	TPSPAD1-13Y	P1-13Y	TEST PIN
3	GND_FR	TPSPAD1-13Y	TPSPAD1-13Y	P1-13Y	TEST PIN
4	C11	100nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
5	C4	220nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
6	C6	220nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
7	C7	220nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
8	C8	220nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
9	C9	220nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
10	C3	220uF	C-US050-075X075	C050-075X075	CAPACITOR, American symbol
11	C13	470nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
12	C14	470nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
13	C15	470nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
14	C2	470nF	C-EU050-025X075	C050-025X075	CAPACITOR, European symbol
15	C1	470uF	C-US050-075X075	C050-075X075	CAPACITOR, American symbol
16	D1	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
17	D2	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
18	D3	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
19	D4	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
20	D5	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
21	D6	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
22	D7	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
23	D8	1N5817-B	1N5817-B	DO41-7.6	1.0A SCHOTTKY BARRIER RECTIFIER
24	D9	1N4004	1N4004	DO41-10	DIODE
25	D10	1N4004	1N4004	DO41-10	DIODE
26	D11	1N4004	1N4004	DO41-10	DIODE
27	D12	1N4004	1N4004	DO41-10	DIODE
28	D13	1N4004	1N4004	DO41-10	DIODE
29	D14	1N4004	1N4004	DO41-10	DIODE
30	D15	1N4004	1N4004	DO41-10	DIODE
31	D16	1N4004	1N4004	DO41-10	DIODE
32	D17	1N4004	1N4004	DO41-10	DIODE
33	D18	1N4004	1N4004	DO41-10	DIODE
34	D19	1N4004	1N4004	DO41-10	DIODE
35	DSENS_2	NA	10-XX	B3F-10XX	OMRON SWITCH
36	DSENS_3	NA	10-XX	B3F-10XX	OMRON SWITCH
37	F1	1,0 A	SH22,5A	SH22,5A	FUSE HOLDER grid 22,5mm, isolated cap OGN0031 8201, Schurter (Buerklin)
38	IC1	7805DT	7805DT	TO252	Positive VOLTAGE REGULATOR
39	IC2	L298	L298	MULTIWATT-15	DUAL FULL-BRIDGE DRIVER
40	J1	+12VDC	JACK-PLUG0	SPC4077	DC POWER JACK
41	J2	Soldado na placa	J2X2MM	04C	Jumper switch 2 x 2.5 mm
42	JP1	OPEN	JP1E	JP1	JUMPER
43	JP2	OPEN	JP1E	JP1	JUMPER
44	JP3	OPEN	JP1E	JP1	JUMPER
45	JP4	OPEN	JP1E	JP1	JUMPER
46	JP5	OPEN	JP1E	JP1	JUMPER
47	JP6	OPEN	JP1E	JP1	JUMPER
48	K1	CQ1-12V	CQ1-12V	CQ1	AUTOMOTIVE QUIET RELAY NAIS
49	K2	CQ1-12V	CQ1-12V	CQ1	AUTOMOTIVE QUIET RELAY NAIS
50	LED3V3	5mm	LED_ELD260	LED_LD260	LED
51	LED5V	5mm	LED_ELD260	LED_LD260	LED
52	LED12V	5mm	LED_ELD260	LED_LD260	LED
53	LEDDI_0	5mm	LED_ELD260	LED_LD260	LED
54	LEDDI_1	5mm	LED_ELD260	LED_LD260	LED
55	LEDDO_0	5mm	LED_ELD260	LED_LD260	LED
56	LEDDO_1	5mm	LED_ELD260	LED_LD260	LED
57	LEDDO_2	5mm	LED_ELD260	LED_LD260	LED
58	LEDDO_3	5mm	LED_ELD260	LED_LD260	LED
59	LEDDO_4	5mm	LED_ELD260	LED_LD260	LED
60	LEDDO_5	5mm	LED_ELD260	LED_LD260	LED
61	LEDDO_6	5mm	LED_ELD260	LED_LD260	LED
62	LEDDO_7	5mm	LED_ELD260	LED_LD260	LED
63	OK1	TIL111	TIL111	DIL06	OPTO COUPLER
64	OK2	TIL111	TIL111	DIL06	OPTO COUPLER
65	Q1	BC548	BC548	TO92-EBC	NPN Transistor
66	Q2	BC548	BC548	TO92-EBC	NPN Transistor
67	R32	OR	R-US_0207/10	0207/10	RESISTOR, American symbol - pode ser feito um jumper
68	R33	OR	R-US_0207/10	0207/10	RESISTOR, American symbol - pode ser feito um jumper

69	R5	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
70	R7	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
71	R26	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
72	R27	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
73	R28	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
74	R29	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
75	R30	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
76	R31	10k	R-US_0207/10	0207/10	RESISTOR, American symbol
77	R1	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
78	R8	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
79	R10	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
80	R16	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
81	R17	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
82	R18	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
83	R19	1k	R-US_0207/10	0207/10	RESISTOR, American symbol
84	R4	2k2	R-US_0207/10	0207/10	RESISTOR, American symbol
85	R6	2k2	R-US_0207/10	0207/10	RESISTOR, American symbol
86	R3	300R	R-US_0207/10	0207/10	RESISTOR, American symbol
87	R9	300R	R-US_0207/10	0207/10	RESISTOR, American symbol
88	R11	300R	R-US_0207/10	0207/10	RESISTOR, American symbol
89	R2	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
90	R12	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
91	R13	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
92	R14	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
93	R15	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
94	R20	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
95	R21	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
96	R22	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
97	R23	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
98	R24	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
99	R25	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
100	R34	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
101	R35	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
102	R36	470R	R-US_0207/10	0207/10	RESISTOR, American symbol
103	SV1	DSSENS	FE05-1	FE05-1	FEMALE HEADER
104	SV2	ASENS	FE05-1	FE05-1	FEMALE HEADER
105	SV4	3V3	FE05-1	FE05-1	FEMALE HEADER
106	SV5	GND	FE05-1	FE05-1	FEMALE HEADER
107	SV3	DOUTS	FE10-1	FE10	FEMALE HEADER
108	X7	DSSENS_0	W237-02P	W237-132	Terminal Block 2 terminais com parafusos
109	X8	DSSENS_1	W237-02P	W237-132	Terminal Block 2 terminais com parafusos
110	X10	BRD_A	W237-02P	W237-132	Terminal Block 2 terminais com parafusos
111	X11	BRD_B	W237-02P	W237-132	Terminal Block 2 terminais com parafusos
112	X1	ASENS_0	W237-03P	W237-133	Terminal Block 3 terminais com parafusos
113	X2	ASENS_1	W237-03P	W237-133	Terminal Block 3 terminais com parafusos
114	X3	ASENS_2	W237-03P	W237-133	Terminal Block 3 terminais com parafusos
115	X4	ASENS_3	W237-03P	W237-133	Terminal Block 3 terminais com parafusos
116	X5	RLY_0	W237-03P	W237-133	Terminal Block 3 terminais com parafusos
117	X6	RLY_1	W237-03P	W237-133	Terminal Block 3 terminais com parafusos
118	X9	EXT_SUPPLY	W237-03P	W237-133	Terminal Block 3 terminais com parafusos