

## Mcc18\_bom\_

Component	Value	References
1	100nF	C1 C3 C4 C6 C7 C8 C9
2	10uF	C2 C5 C10
3	6.8uF	Cc1 Cc2 Cc3 Cc4
4	4.7uF	Ci1 Ci2 Ci3
5	4.7uF	Co1 Co2 Co3
6	??	Cs1 Cs2 Cs3 Cs4
7	80CPQ150PbF	D1
8	BYD77	Ds1 Ds2
9	Fuse	F1
10	Heatsink	HS1
11	50uH/50uH	L1
12	L_Small	L2 L3
13	IRFP4321PbF	Q1
14	10k	R1
15	??	Rs1 Rs2 Rs3 Rs4
16	DRIVER_(INEP)	U2
17	LM7812_TO220	U3
18	LTSP_25-NP	U1
19	Signals_MCC	U4
20	ZCS	U5

Component Groups: 20  
 Component Count: 43  
 Fitted Components: 43  
 Number of PCBs: 1  
 Total components: 43  
 Schematic Version:  
 Schematic Date:  
 BoM Date: 28/05/2018 12:19:19  
 KiCad Version: Eeschema (5.0.0-rc2-dev-586-g888c43477)

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Footprint	Part	Quantity	Tolerance
C_0805_2012Metric_Pad1.29x1.40mm_HandSolder	C_Small	7	
C_0805_2012Metric_Pad1.29x1.40mm_HandSolder	CP1_Small	3	
C_Rect_L29.0mm_W11.9mm_P27.50mm_MKT	C	4	
C_Rect_L16.5mm_W9.2mm_P15.00mm_MKT	C	3	
C_Rect_L29.0mm_W11.9mm_P27.50mm_MKT	C	3	
C_1206_3216Metric_Pad1.39x1.80mm_HandSolder	C_Small	4	10%
TO-247-3_Horizontal_TabUp	D_Schottky_AKA	1	
D_MELF_Handsoldering	D_Small	2	
Porta_Fusivel	Fuse	1	
hs10425	Heatsink	1	
NEE-42-20-DE	L_Core_Iron_Coupled	1	
L_0805_2012Metric_Pad1.29x1.40mm_HandSolder	L_Small	2	
TO-247-3_Horizontal_TabUp	IRF540N	1	
R_0805_2012Metric_Pad1.29x1.40mm_HandSolder	R_Small	1	
R_2512_6332Metric_Pad1.49x3.40mm_HandSolder	R_Small	4	10%
Driver_(INEP)	DRIVER_(INEP)-Driver_FET	1	
TO-220-3_Horizontal_TabDown	LM7812_TO220	1	
LTSP_25-NP	LTSP_25-NP-Sensor_Current	1	
Signals	Signals_MCC-MCC18	1	
ZCS18	ZCS-ZCS-Mcc18-rescue	1	

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Type	Voltage	Power	Description
			Unpolarized capacitor
			Polarised capacitor
			Unpolarized capacitor
			Unpolarized capacitor
			Unpolarized capacitor
X7R	200V		Unpolarized capacitor
			Schottky diode, two anode pins
			Diode, small symbol
			Fuse, generic
			Heatsink
			Coupled inductor with Iron Core
			Inductor, small symbol
			30A Id, 50V Vds, N-Channel Power MOSFET, TO-220
			Resistor, small symbol
		1W	Resistor, small symbol
			Positive 1A 35V Linear Regulator, Fixed Output 5V, TO-220