

























Comment	Designator	Description	Footprint	Quantity
0	R17, R25, R27, RI1_1, RI1_2, RI1_3, RI1_4, RI2_1, RI2_2, RI2_3, RI2_4	Resistor	SMD_0603_ESC1608X55N	11
1nF	C2, C3, CO1_1, CO1_2, CO1_3, CO1_4	Capacitor	SMD_0603_CAPC1608X80N	6
	CM_1, CM_2, CM_3, CM_4, CM_5, CM_6, CM_7, CM_8, CM_9, CM_10, CM_11, CM_12, CM_13, CM_14, CM_15, CM_16, CM_17, CM_18, CM_19, CM_20, CM_21, CM_22, CM_23, CM_24, CM_25, CM_26, CM_27, CM_28, CM_29, CM_30, CM_31, CM_32, CM_33, CM_34, CM_35, CM_36, CM_37, CM_38, CM_39, CM_40, CM_41, CM_42, CM_43, CM_44, CM_45, CM_46, CM_47, CM_48, CM_49, CM_50, CM_51, CM_52, CM_53, CM_54, CM_55, CM_56, CM_57, CM_58, CM_59, CM_60, CM_61, CM_62, CM_63, CM_64, CM_65, CM_66, CM_67, CM_68, CM_69, CM_70, CM_71, CM_72, CM_73, CM_74, CM_75, CM_76, CM_77, CM_78, CM_79, CM_80, CM_81, CM_82, CM_83, CM_84, CM_85, CM_86, CM_87, CM_88, CM_89, CM_90, CM_91, CM_92, CM_93, CM_94, CM_95, CM_96, CM_97, CM_98, CM_99, CM_100, CM_101, CM_102, CM_103, CM_104, CM_105, CM_106, CM_107, CM_108, CM_109, CM_110, CM_111, CM_112	CL32A227MQVNNNE 220UF 6.3V 20% X5R 1210	SMD_1210_CAPC3225X279N	112
1uF	C2P_1, C2P_2, C2P_3, C2P_4, C2P_5, C2P_6, C2P_7, C2P_8	Capacitor	SMD_0805_CAPC2012X145N	8
2	R26	Resistor	SMD_1206_ESC3216X180N	1
2.4k	R16	Resistor	SMD_0603_ESC1608X55N	1
10k	R1, R2, R3, R4, R9, R10, R11, R12, R15, R18, R22, R23, R03_1, R03_2, R03_3, R03_4	Resistor	SMD_0603_ESC1608X55N	16
10uF/16V	C1, C1P_1, C1P_2, C1P_3, C1P_4, C1P_5, C1P_6, C1P_7, C1P_8, C14, C15	Capacitor	SMD_0805_CAPC2012X145N	11
18pF	C12, C13	Capacitor	SMD_0603_CAPC1608X80N	2
22uF/6.3V	C17, C25, C26, CO4_1, CO4_2, CO4_3, CO4_4	Capacitor	SMD_0805_CAPC2012X145N	7
22uF/16V	C4P_1, C4P_2, C4P_3, C4P_4, C4P_5, C4P_6, C4P_7, C4P_8, C5P_1, C5P_2, C5P_3, C5P_4, C5P_5, C5P_6, C5P_7, C5P_8, C9P_1, C9P_2, C9P_3, C9P_4, C9P_5, C9P_6, C9P_7, C9P_8, C10P_1, C10P_2, C10P_3, C10P_4, C10P_5, C10P_6, C10P_7, C10P_8, C11P_1, C11P_2, C11P_3, C11P_4, C11P_5, C11P_6, C11P_7, C11P_8, C12P_1, C12P_2, C12P_3, C12P_4, C12P_5, C12P_6, C12P_7, C12P_8	CL32A227MQVNNNE 220UF 6.3V 20% X5R 1210	SMD_1210_CAPC3225X279N	48
47	R29, R31	Resistor	SMD_0603_ESC1608X55N	2
100	R28	Resistor	SMD_1206_ESC3216X180N	1
100nF	C4, C7, C8, C9, C10, C11, C02_1, C02_2, C02_3, C02_4, C08_1, C08_2, C08_3, C08_4	Capacitor	SMD_0603_CAPC1608X80N	14
100nF/50V	C3P_1, C3P_2, C3P_3, C3P_4, C3P_5, C3P_6, C3P_7, C3P_8	Capacitor	SMD_0805_CAPC2012X145N	8
220uF	C6P_1, C6P_2, C6P_3, C6P_4, C6P_5, C6P_6, C6P_7, C6P_8, C7P_1, C7P_2, C7P_3, C7P_4, C7P_5, C7P_6, C7P_7, C7P_8, C8P_1, C8P_2, C8P_3, C8P_4, C8P_5, C8P_6, C8P_7, C8P_8, C03_1, C03_2, C03_3, C03_4	CL32A227MQVNNNE 220UF 6.3V 20% X5R 1210	SMD_1210_CAPC3225X279N	28
470nF	C07_1, C07_2, C07_3, C07_4	Capacitor	SMD_0603_CAPC1608X80N	4
AP1RA03GMT-3	Q1P_1, Q1P_2, Q1P_3, Q1P_4, Q1P_5, Q1P_6, Q1P_7, Q1P_8, Q2P_1, Q2P_2, Q2P_3, Q2P_4, Q2P_5, Q2P_6, Q2P_7, Q2P_8, Q3P_1, Q3P_2, Q3P_3, Q3P_4, Q3P_5, Q3P_6, Q3P_7, Q3P_8		SMD_SON127P615X520X100-8N	24
BAT54C	D1P_1, D1P_2, D1P_3, D1P_4, D1P_5, D1P_6, D1P_7, D1P_8		SMD_SOT23_SOT95P240X120-3N	8
BD18K5WF	U6		SMD_SOIC127P602X173-8N	1
BD33K5WF	U7, U8		SMD_SOIC127P602X173-8N	2
BGA FAN	J5, J6, J7, J8		SMD_BGA900_FAN	4
CON FAN	J12, J13, J14, J15		PTH_CON_PANCON-MPSS100-04D	4
CU045CM15B0-R0	J2		SMD_CON_CVILUX-CU045CM15B0	1
dsPIC33EP256MU806	U1		SMD_QFP50P1200X1200X120-64N	1
Green SML210MT ROHM	D2, D12_1, D12_2, D12_3, D12_4		SMD_0805_LED2012X100N	5
L78M05CDT-TR	U5		SMD_TO229P991X239-4AN_DPAK	1
LTC 4449	U1P_1, U1P_2, U1P_3, U1P_4, U1P_5, U1P_6, U1P_7, U1P_8	Mosfet 12V Dual Bootstrapped PWM Sync Buck Optimised	SMD_DFN16166SON50P161X161X60-9N - LTC4449	8
Minion BGA	U1_1, U1_2, U1_3, U1_4		SMD_BGA900C80P30X30_2500X2500X240 - FANOUT	4
Orange SML210DT ROHM	D4, D18_1, D18_2, D18_3, D18_4		SMD_0805_LED2012X100N	5
Q4.000 MHz HC-49SM SMD	Y1	Crystal	SMD_HC49_XTAL140X480X420N	1
Red SML210VT ROHM	D1, D11_1, D11_2, D11_3, D11_4		SMD_0805_LED2012X100N	5
SLC1480-201MLD	L1P_1, L1P_2, L1P_3, L1P_4, L1P_5, L1P_6, L1P_7, L1P_8		SMD_INDM12501250X800A - Coilcraft SLC1480	8
SMCJ12A	D6, D10, D11, D12		????????????????????? 600W, UBRmin13.3V@1mA	4
SMS05T1G	D5	4 IO lines TVS	SMD_SOT95P280X145-6N-W	1
SS14	D9	4.20mm Male Dual Row Angled Header WR-MPC4	SMD_DO214AC_SMA	1
WURTH 649 006 295 22	J4, J9, J10		PTH_CON_PCI-E	3
XTAL_TXC 16 MHz	Y04_1, Y04_2, Y04_3, Y04_4		SMD_OSC_DFN_2.5X3.2MM	4
Yellow SML210YT ROHM	D3, D13_1, D13_2, D13_3, D13_4		SMD_0805_LED2012X100N	5