

Designator	Comment	Footprint	Quantity
		MKS-Logo	1
AUX-1	Header 4X2	DC8P	1
C1	12pF	C0603	1
C2	12pF	C0603	1
C3	0.1uF	C0603	1
C4	10uF	RVT4X6	1
C5	0.1uF	C0603	1
C6	0.1uF	C0603	1
C7	0.1uF	C0603	1
C8	0.1uF	C0603	1
C9	0.1uF	C0603	1
C10	0.1uF	C0603	1
C11	0.1uF	C0603	1
C12	1000uF/35V	CAPPR5-12.5X20	1
C13	1000uF/35V	CAPPR5-12.5X20	1
C14	0.1uF	C0603	1
C15	22uF	RVT	1
C16	1nF	C0603	1
C17	0.1uF	C0603	1
C18	100uF	RVT	1
C19	0.1uF	C0603	1
C20	22nF	C0603	1
C21	22nF	C0603	1
C22	0.1uF	C0603	1
C23	10uF	RVT4X6	1
C24	2.2uF	C0603	1
C25	0.1uF	C0603	1
C26	0.1uF	C0603	1
C27	0.1uF	C0603	1
C28	0.1uF	C0603	1
C29	0.1uF	C0603	1
C30	0.1uF	C0603	1
C31	0.1uF	C0603	1
C32	0.1uF	C0603	1
C33	0.1uF	C0603	1
C34	0.1uF	C0603	1
C35	10uF	RVT4X6	1
C36	10uF	RVT4X6	1
C37	10uF	RVT4X6	1
C38	10uF	RVT4X6	1
C39	0.1uF	C0603	1
C40	18pF	C0603	1
C41	18pF	C0603	1
C42	0.1uF	C0603	1
C43	10uF	RVT4X6	1
C44	10uF	RVT4X6	1

C45	0.1uF	C0603	1
C46	0.1uF	C0603	1
C47	1uF	C0603	1
C48	470pF	C0603	1
C49	0.1uF	C0603	1
C50	0.1uF	C0603	1
C51	0.1uF	C0603	1
C52	12pF	C0603	1
C53	12pF	C0603	1
C54	1uF	C0603	1
C55	0.1uF	C0603	1
C56	0.47uF	C0603	1
C57	100uF	RVT	1
Cm1_M1	0.01uF	C0603	1
Cm1_M2	0.01uF	C0603	1
Cm1_M3	0.01uF	C0603	1
Cm1_M4	0.01uF	C0603	1
Cm1_M5	0.01uF	C0603	1
Cm2_M1	100uF	RVT	1
Cm2_M2	100uF	RVT	1
Cm2_M3	100uF	RVT	1
Cm2_M4	100uF	RVT	1
Cm2_M5	100uF	RVT	1
Cm3_M1	0.1uF	C0603	1
Cm3_M2	0.1uF	C0603	1
Cm3_M3	0.1uF	C0603	1
Cm3_M4	0.1uF	C0603	1
Cm3_M5	0.1uF	C0603	1
Cm4_M1	0.1uF	C0603	1
Cm4_M2	0.1uF	C0603	1
Cm4_M3	0.1uF	C0603	1
Cm4_M4	0.1uF	C0603	1
Cm4_M5	0.1uF	C0603	1
Cm5_M1	0.47uF	C0603	1
Cm5_M2	0.47uF	C0603	1
Cm5_M3	0.47uF	C0603	1
Cm5_M4	0.47uF	C0603	1
Cm5_M5	0.47uF	C0603	1
D1	LED	LED0603	1
D2	LED	LED0603	1
D3	LED	LED0603	1
D4	LED	LED0603	1
D5	S1G-13-F	D-SMA	1
D6	S1A-13-F	D-SMA	1
D7	LED	LED0603	1
D8	B260A-13-F	STPS2L40U	1
D9	SS12	D-SMA	1

D10	SS12	D-SMA	1
D11	LED	LED0603	1
D12	LED	LED0603	1
D13	LED	LED0603	1
D14	LED	LED0603	1
EXP1	Header 5X2	DC10P	1
EXP2	Header 5X2	DC10P	1
F1	25A	F1206	1
F2	12A	F1206	1
F3	MF-MSMF110	MF-MSMF050	1
F4	500mA	MF-MSMF050	1
F5	MF-MSMF050	MF-MSMF050	1
Fid1	Fiducial	Fiducial-A	1
Fid2	Fiducial	Fiducial-A	1
Fid3	Fiducial	Fiducial-A	1
J1	Header 2	HDR1X2	1
J2	Header 3X2	HDR2X3SMT	1
J3	Header 3	HDR1X3	1
J4	Header 3	HDR1X3	1
J5	Header 4H	DG301-5.0	1
J6	Header 2	DG302-5.0	1
J7	Header 6	HDR1X6	1
J8	Header 6	HDR1X6	1
J9	X-	XH-3A	1
J10	X+	XH-3A	1
J11	Y-	XH-3A	1
J12	Y+	XH-3A	1
J13	Z-	XH-3A	1
J14	Z+	XH-3A	1
J15	USB	USBB	1
J16	AH6-4101	AH6-4101	1
J17	129-5.08	129-5.08	1
Jc_M1	Header 4	HDR1X4	1
Jc_M2	Header 4	HDR1X4	1
Jc_M3	Header 4	HDR1X4	1
Jc_M4	Header 4	HDR1X4	1
Jc_M5	Header 4	HDR1X4	1
Jm_M1	Header 4H	XH-4A	1
Jm_M2	Header 4H	XH-4A	1
Jm_M3	Header 4H	XH-4A	1
Jm_M4	Header 4H	XH-4A	1
Jm_M5	Header 4H	XH-4A	1
L2	PBO3316M-101MT	DO3316P	1
LG2	BLM21	R0805	1
LV1	FBMA-11-160808-601A20T	L0603	1
LV2	FBMA-11-160808-601A10T	L0603	1
LV3	PDR-3015--6R8MT	PDR-3015	1

LV4	FBMA-11-160808-601A20T	L0603	1
LV5	FBMA-11-160808-601A20T	L0603	1
LV6	FBMA-11-160808-601A20T	L0603	1
LV7	FBMA-11-160808-601A20T	L0603	1
LV8	FBMA-11-160808-601A20T	L0603	1
POWER	129-5.08	129-5.08	1
Q1	IRLR7843PBF	TO-252AA	1
Q2	IRLR7843PBF	TO-252AA	1
Q3	IRLR7843PBF	TO-252AA	1
Q4	MOSFET-25A	TO-252AA	1
Q5	FDN340P	SOT-23	1
R1	1K	R0603	1
R2	1K	R0603	1
R3	1K	R0603	1
R4	1K	R0603	1
R5	10K	R0603	1
R6	10K	R0603	1
R7	1.8K	R0603	1
R8	1K*	R0603	1
R9	1K*	R0603	1
R10	1M	R0603	1
R11	20K*	R0603	1
R12	2.2K	R0603	1
R13	2.2K	R0603	1
R14	100K	R0603	1
R15	20K*	R0603	1
R16	100K	R0603	1
R17	22	R0603	1
R18	1.8K	R0603	1
R19	10K	R0603	1
R20	10K	R0603	1
R21	22	R0603	1
R22	1.8K	R0603	1
R23	10K	R0603	1
R24	10K	R0603	1
R25	22	R0603	1
R26	1.8K	R0603	1
R27	10K	R0603	1
R28	10K	R0603	1
R29	22	R0603	1
R30	1.8K	R0603	1
R31	10K	R0603	1
R32	10K	R0603	1
R33	1K	R0603	1
R34	1K	R0603	1
R35	1K	R0603	1
R36	5.6K	R0603	1

R37	5.6K	R0603	1
R38	5.6K	R0603	1
R39	1K	R0603	1
R40	1K	R0603	1
R41	1K	R0603	1
R42	5.6K	R0603	1
R43	5.6K	R0603	1
R44	5.6K	R0603	1
R45	4.7K	R0603	1
R46	4.7K	R0603	1
R47	4.7K	R0603	1
R48	4.7K	R0603	1
R49	1.5K	R0603	1
R50	33	R0603	1
R51	33	R0603	1
R52	22	R0603	1
R53	1.5K	R0603	1
R54	10K	R0603	1
R55	49.9	R0603	1
R56	49.9	R0603	1
R57	49.9	R0603	1
R58	49.9	R0603	1
R59	330	R0603	1
R60	22	R0603	1
R61	22	R0603	1
R62	22	R0603	1
R63	330	R0603	1
R64	10K	R0603	1
R65	12.1K	R0603	1
R66	10K	R0603	1
R67	10K	R0603	1
R68	10K	R0603	1
R69	10K	R0603	1
R70	10K	R0603	1
R71	1K	R0603	1
R72	100	R0603	1
R73	2.2K	R0603	1
R74	2.2K	R0603	1
R75	200K	R0603	1
RJ1	HR911105A	HR911105A	1
Rm1_M1	10K	R0603	1
Rm1_M2	10K	R0603	1
Rm1_M3	10K	R0603	1
Rm1_M4	10K	R0603	1
Rm1_M5	10K	R0603	1
Rm2_M1	100K	R0603	1
Rm2_M2	100K	R0603	1

Rm2_M3	100K	R0603	1
Rm2_M4	100K	R0603	1
Rm2_M5	100K	R0603	1
Rm3_M1	10K	R0603	1
Rm3_M2	10K	R0603	1
Rm3_M3	10K	R0603	1
Rm3_M4	10K	R0603	1
Rm3_M5	10K	R0603	1
Rm4_M1	1.5K	R0603	1
Rm4_M2	1.5K	R0603	1
Rm4_M3	1.5K	R0603	1
Rm4_M4	1.5K	R0603	1
Rm4_M5	1.5K	R0603	1
Rm7_M1	0.1	R1206	1
Rm7_M2	0.1	R1206	1
Rm7_M3	0.1	R1206	1
Rm7_M4	0.1	R1206	1
Rm7_M5	0.1	R1206	1
Rm8_M1	0.1	R1206	1
Rm8_M2	0.1	R1206	1
Rm8_M3	0.1	R1206	1
Rm8_M4	0.1	R1206	1
Rm8_M5	0.1	R1206	1
RPK1	100	RPACK4	1
RPK2	100	RPACK4	1
RPK3	100	RPACK4	1
RPK4	100	RPACK4	1
Ry	1M	R0603	1
S1	TS42	TS42	1
SD	microSD	MICROSD	1
TH1	Header 2	XH-2A	1
TH2	Header 2	XH-2A	1
TH3	Header 2	XH-2A	1
TH4	Header 2	XH-2A	1
U1	LPC1769	LQFP100	1
U2	LM25010MH	MXA14A_N	1
U3	7812D	TO-263S	1
U4	LM1117-3.3V	SOT223-4N	1
U5	MCP4451T-503EST	TSSOP20	1
U6	MCP4451T-503EST	TSSOP20	1
U7	TC427EOA	SOIC-OA8_N	1
U8	TC427EOA	SOIC-OA8_N	1
U9	74LVC1G04	SOT23-5	1
U10	LAN8720	QFN24_4MM	1
U11	SN74LVC1T45DCKT	DCK6	1
U12	SN74LVC1T45DCKT	DCK6	1
U13	SN74LVC1T45DCKT	DCK6	1

U14	SN74LVC1T45DCKT	DCK6	1
U15	SN74LVC1T45DCKT	DCK6	1
U16	SN74LVC1T45DCKT	DCK6	1
Um_M1	DRV8825PWP	DRV8825PWP	1
Um_M2	DRV8825PWP	DRV8825PWP	1
Um_M3	DRV8825PWP	DRV8825PWP	1
Um_M4	DRV8825PWP	DRV8825PWP	1
Um_M5	DRV8825PWP	DRV8825PWP	1
Y1	12MHz	CRY5032	1
Y2	25MHz	CRY5032	1
Z1	CG0603MLC-05E	R0603	1
Z2	CG0603MLC-05E	R0603	1
Z3	CG0603MLC-05E	R0603	1