

Partlist

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Assembly variant:

Part	Value	Package	Library	Position (inch)	Orientation
BZ1	PS12	PS12	tdk	(1.09 2.345)	R90
C1	10uF	C0805	rcl	(0.68 2.065)	R270
C2	100nF	C0603	rcl	(1.31 0)	MR180
C3	1uF	C0603	rcl	(2.85 3.685)	MR180
C4	47nF	C0603	rcl	(6.655 0.025)	R270
C5	100nF	C0603	rcl	(1.31 0.51)	MR180
C6	100nF	C0603	rcl	(4.415 2.09)	MR180
C7	47nF	C0603	rcl	(0.81 0.67)	R270
C8	10nF	C0603	rcl	(3.98 2.03)	MR0
C9	2.2nF	C0603	rcl	(4.36 1.97)	MR270
C10	100nF	C0603	rcl	(1.31 0.78)	MR180
C11	10nF	C0603	rcl	(4.22 1.845)	MR270
C12	220nF	C0603	rcl	(4.285 2.205)	MR180
C13	100pF	C0603	rcl	(4.595 2.165)	R90
C14	47nF	C0603	rcl	(0.79 0.83)	R180
C15	27pF	C0603	rcl	(4.095 1.85)	R90
C16	27pF	C0603	rcl	(4.345 1.85)	R270
C17	100nF	C0603	rcl	(4 1.925)	MR270
C18	33pF	C0603	rcl	(4.34 1.685)	R270
C19	10nF	C0603	rcl	(3.75 1.285)	R270
C20	1nF	C0603	rcl	(3.585 1.285)	R270
C21	100nF	C0603	rcl	(0.355 2.885)	MR270
C22	47nF	C0603	rcl	(0.575 3.13)	R90
C23	100nF	C0603	rcl	(2.012 1.366)	MR0
C24	100nF	C0603	rcl	(2.082 1.465)	MR90
C25	100nF	C0603	rcl	(2.558 0.649)	MR270
C26	100nF	C0603	rcl	(0.66 2.885)	MR270
C27	47nF	C0603	rcl	(0.895 3.13)	R90
C28	100nF	C0603	rcl	(0.98 2.885)	MR270
C29	47nF	C0603	rcl	(1.215 3.13)	R90
C30	100nF	C0603	rcl	(3.425 2.885)	MR270
C31	1uF	C0603	rcl	(0.576 2.472)	R0
C32	47nF	C0603	rcl	(3.645 3.13)	R90

C33	100nF	C0603	rcl	(3.73 2.885)	MR270
C34	1uF	C0603	rcl	(0.577 2.287)	R0
C35	47nF	C0603	rcl	(3.965 3.13)	R90
C36	100nF	C0603	rcl	(4.05 2.885)	MR270
C37	47nF	C0603	rcl	(4.285 3.13)	R90
C38	100nF	C0603	rcl	(6.56 1.015)	R0
C39	47nF	C0603	rcl	(6.725 -0.005)	R0
C40	500R07S1R8BV4T	C0402	rcl	(4.595 2.01)	R270
C41	1uF 35V	C0805	rcl	(0.501 1.379)	R0
C42	100uF 25V	PANASONIC_E	rcl	(0.44 1.17)	R0
C43	10nF	C0603	rcl	(0.448 1.589)	R270
C44	22uF 6.3V	C1206	rcl	(0.787 1.784)	R0
C45	100nF	C0603	rcl	(6.735 1.12)	R0
C46	100nF	C0603	rcl	(2.049 1.899)	MR0
C47	100nF	C0603	rcl	(2.057 1.58)	MR0
C48	100nF	C0603	rcl	(1.54 1.69)	MR270
C49	100nF	C0603	rcl	(1.559 1.472)	MR90
C50	100nF	C0603	rcl	(1.912 1.965)	MR0
C51	100nF	C0603	rcl	(1.648 1.367)	MR180
C52	100nF	C0603	rcl	(1.82 3.26)	MR180
C53	100nF	C0603	rcl	(1.835 0.91)	MR0
C54	100nF	C0603	rcl	(2.649 2.061)	MR270
C55	100nF	C0603	rcl	(1.71 3.355)	R90
C56	100nF	C0603	rcl	(0.8 1.565)	R270
C57	100nF	C0603	rcl	(1.645 3.02)	R270
C58	100nF	C0603	rcl	(1.755 3.18)	R180
C59	2.2nF	C0603	rcl	(1.735 2.85)	R180
C60	100nF	C0603	rcl	(1.838 1.365)	MR0
C61	47nF	C0603	rcl	(6.745 -0.065)	R0
C62	100nF	C0603	rcl	(6.655 0.025)	R0
C63	47nF	C0603	rcl	(6.655 0.025)	R0
C64	100nF	C0603	rcl	(6.655 1.025)	R0
C65	47nF	C0603	rcl	(6.655 1.025)	R0
C66	100nF	C0603	rcl	(6.655 1.025)	R0
C67	100nF	C0603	rcl	(1.636 1.907)	MR180
C68	100nF	C0603	rcl	(2.082 1.794)	MR270
C69	47nF	C0603	rcl	(6.655 1.025)	R0
C70	100nF	C0603	rcl	(6.655 1.025)	R0
C71	100nF	C0603	rcl	(1.638 1.825)	MR180
C72	47nF	C0603	rcl	(6.655 1.025)	R0
C73	470uF 25V	PANASONIC_G	rcl	(0.455 -1.155)	R0
C74	470uF 25V	PANASONIC_G	rcl	(1.215 -1.165)	R0
C75	470uF 25V	PANASONIC_G	rcl	(-0.355 -1.19)	R0

C76	470uF 25V	PANASONIC_G	rcl	(6.655 0.025)	R0
C77	100nF	C0603	rcl	(3.515 1.86)	MR0
C78	470uF 25V	PANASONIC_G	rcl	(6.655 1.025)	R0
C79	100nF	C0603	rcl	(3.54 1.78)	MR0
D1	MBRX160-TP	SOD123	diode	(0.522 1.455)	R0
D2	MBRX160-TP	SOD123	diode	(1.854 0.706)	MR270
D3	BAS16H	SOD323-W	diode	(0.576 1.791)	R0
D7	SMBJP6KE18A-TP	SMBJ	power	(2.095 0.62)	R270
F1	2x BK6011 [30A]	FUSE_MINI_ATC	power	(2.215 0.875)	R180
F2	SF-1206F100-2	F1206	power	(1.985 0.69)	MR270
J1	0528520870	0528520870	con-robocup	(0.125 2.03)	R270
J2	MINI-USB	UX60A-MB-5ST	con-robocup	(4.655 1.7)	R180
J3	2MM-2H	2MM-2-H	2mm	(2.895 3.79)	R0
J4	Molex 0522711179	FH_11_HOR	hirose	(0.15 0.6)	R90
J5	Molex 0522711179	FH_11_HOR	hirose	(0.15 3.16)	R90
J6	Molex 0522711179	FH_11_HOR	hirose	(4.55 3.16)	R270
J7	Molex 0522711179	FH_11_HOR	hirose	(4.55 0.6)	R270
J8	MMCX_RA	MMCX_RA	radio	(4.74 2.19)	R0
J9	2MM-3H	2MM-3-H	2mm	(1.125 3.79)	R0
J10	2MM-6H	2MM-6-H	2mm	(1.78 3.79)	R0
J11	BATT	JST_VH_2_RA	jst_vh	(3.005 0.095)	R0
J12	2MM-4V	2MM-4-V	2mm	(0.765 1.04)	R270
J13	2MM-4H	2MM-4-H	2mm	(0.08 1.32)	R90
J14	2MM-4H	2MM-4-H	2mm	(0.08 2.675)	R90
J15	2MM-4H	2MM-4-H	2mm	(4.63 2.44)	R270
J16	2MM-4H	2MM-4-H	2mm	(4.63 1.08)	R270
J17	2MM-8H	2MM-8-H	2mm	(2.56 3.79)	R0
J18	2MM-4V	2MM-4-V	2mm	(1 1.04)	R270
J19	JST_VH_2	JST_VH_2_RA	jst_vh	(0.8 0.41)	R0
J20	2MM-5V	2MM-5-V	2mm	(1.625 0.33)	R90
L1	SDR0403-270KL	SDR0403	power	(0.62 1.62)	R180
L2	HZ0603B102R-10	C0603	radio	(1.615 3.145)	R270
L3	HZ0603B102R-10	C0603	radio	(1.625 3.355)	R270
L4	L-07C5N6SV6T	R0402	rcl	(4.515 2.085)	R0
L5	HZ0603B102R-10	C0603	radio	(3.88 2.205)	MR180
LED1		CHIP-LED0603	led	(2.375 2.125)	R270
LED2	LED2	5350T5	5350T5	(2.235 -0.05)	R180
LED7	LDS-M514RI-RA	LDS-M514RI-RA	rjrc-7seg-disp	(2.555 0.01)	R180
P1	SI7141DP	POWERPAK_SO-8	rjrc_power_transistors	(2.38 0.59)	R90
Q1	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(-1.2 1.05)	
MR0					
Q2	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(-0.765 0.315)	
MR0					

Q3	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(-0.955 0.685)	
MR0					
Q4	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(0.5 3.385)	
MR90					
Q5	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(0.82 3.385)	
MR90					
Q6	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(1.14 3.385)	
MR90					
Q7	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(3.57 3.385)	
MR90					
Q8	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(3.89 3.385)	
MR90					
Q9	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(4.21 3.385)	
MR90					
Q10	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(6.655 0.025)	
R0					
Q11	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(6.655 0.025)	
R0					
Q12	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(6.655 0.025)	
R0					
Q13	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(6.655 1.025)	
R0					
Q14	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(6.655 1.025)	
R0					
Q15	BSC072N03LD	BSC072N03LD	Dual N-Channel MOSFET	(6.655 1.025)	
R0					
Q33	FDV304P	SOT-23	zetex	(3.92 1.355)	R90
RT1	22	R0603	rcl	(0.755 0.105)	MR0
RT2	10.0k	R0603	rcl	(2.734 2.061)	MR270
RT3	220	RA_4_1206	resistor-array	(1.6 3.62)	MR0
RT4	220	RA_4_1206	resistor-array	(0.395 1.815)	MR90
RT5	10.0k	R0603	rcl	(0.243 1.46)	R0
RT6	220	RA_4_1206	resistor-array	(0.305 0.735)	R90
RT7	10.0k	R0603	rcl	(1.224 1.227)	R0
RT8	10.0k	R0603	rcl	(4.259 1.069)	R0
RT9	150 1/8W	R0805	rcl	(2.7 3.745)	MR90
RT10	220	R0603	rcl	(1.35 1.17)	R0
RT11	NP	R0603	rcl	(2.42 1.73)	R0
RT12	10.0k	R0603	rcl	(2.42 1.65)	R180
RT13	220	R0603	rcl	(2.258 2.123)	R0
RT14	0	R0603	rcl	(0.715 1.93)	R0
RT15	0	R0603	rcl	(0.64 2.2)	R0
RT16	100k	R0603	rcl	(3 3.755)	MR270

RT17	22	R0603	rcl	(0.755 -0.015)	MR0
RT18	10.0k	R0603	rcl	(1.31 0.16)	MR0
RT19	10.0k	R0603	rcl	(1.31 0.08)	MR0
RT20	22	R0603	rcl	(0.755 0.615)	MR0
RT21	22	R0603	rcl	(0.755 0.495)	MR0
RT22	10.0k	R0603	rcl	(1.31 0.67)	MR0
RT23	10.0k	R0603	rcl	(1.31 0.59)	MR0
RT24	22	R0603	rcl	(0.755 0.885)	MR0
RT25	22	R0603	rcl	(0.755 0.765)	MR0
RT26	10.0k	R0603	rcl	(1.31 0.94)	MR0
RT27	10.0k	R0603	rcl	(1.31 0.86)	MR0
RT28	220	RA_2_0606	resistor-array	(1.63 0.955)	R90
RT29	220	RA_4_1206	resistor-array	(1.425 2.345)	R90
RT30	22	RA_4_1206	resistor-array	(1.35 3.13)	R0
RT31	22	R0603	rcl	(0.515 3.13)	MR90
RT32	22	R0603	rcl	(0.435 3.13)	MR90
RT33	10.0k	R0603	rcl	(0.66 2.755)	MR270
RT34	10.0k	R0603	rcl	(0.47 2.655)	MR180
RT35	22	R0603	rcl	(0.835 3.13)	MR90
RT36	22	R0603	rcl	(0.755 3.13)	MR90
RT37	10.0k	R0603	rcl	(0.98 2.755)	MR270
RT38	10.0k	R0603	rcl	(0.75 2.655)	MR180
RT39	22	R0603	rcl	(1.155 3.13)	MR90
RT40	22	R0603	rcl	(1.075 3.13)	MR90
RT41	10.0k	R0603	rcl	(1.3 2.755)	MR270
RT42	10.0k	R0603	rcl	(1.1 2.67)	MR180
RT43	220	RA_2_0606	resistor-array	(0.975 2.28)	MR0
RT44	220	R0603	rcl	(2.24 0.14)	R90
RT46	22	R0603	rcl	(3.585 3.13)	MR90
RT47	22	R0603	rcl	(3.505 3.13)	MR90
RT48	10.0k	R0603	rcl	(3.73 2.755)	MR270
RT49	10.0k	R0603	rcl	(3.54 2.655)	MR180
RT50	22	R0603	rcl	(3.905 3.13)	MR90
RT51	22	R0603	rcl	(3.825 3.13)	MR90
RT52	10.0k	R0603	rcl	(4.05 2.755)	MR270
RT53	10.0k	R0603	rcl	(3.82 2.655)	MR180
RT54	22	R0603	rcl	(4.225 3.13)	MR90
RT55	22	R0603	rcl	(4.145 3.13)	MR90
RT56	10.0k	R0603	rcl	(4.37 2.755)	MR270
RT57	10.0k	R0603	rcl	(4.17 2.67)	MR180
RT58	220	RA_2_0606	resistor-array	(4.155 2.57)	MR90
RT59	22	RA_4_1206	resistor-array	(1.665 0.535)	R270
RT61	22	R0603	rcl	(6.655 0.025)	R0

RT62	22	R0603	rcl	(6.655 0.025)	R0
RT63	10.0k	R0603	rcl	(6.655 0.025)	R0
RT64	10.0k	R0603	rcl	(6.655 0.025)	R0
RT65	22	R0603	rcl	(6.655 0.025)	R0
RT66	22	R0603	rcl	(6.655 0.025)	R0
RT67	10.0k	R0603	rcl	(6.655 0.025)	R0
RT68	10.0k	R0603	rcl	(6.655 0.025)	R0
RT69	22	R0603	rcl	(6.655 0.025)	R0
RT70	22	R0603	rcl	(6.655 0.025)	R0
RT71	10.0k	R0603	rcl	(6.655 0.025)	R0
RT72	10.0k	R0603	rcl	(6.655 0.025)	R0
RT73	220	RA_2_0606	resistor-array	(6.655 0.025)	R0
RT74	22	RA_4_1206	resistor-array	(3.43 2.95)	R90
RT76	22	R0603	rcl	(6.655 1.025)	R0
RT77	22	R0603	rcl	(6.655 1.025)	R0
RT78	5.6k	R0603	rcl	(1.195 3.63)	R180
RT79	10.0k	R0603	rcl	(6.655 1.025)	MR90
RT80	NP	R0603	rcl	(3.265 1.42)	R180
RT81	68k	R0603	rcl	(2.5255 0.7485)	MR0
RT82	10.0k	R0603	rcl	(2.638 0.649)	MR90
RT83	52.3k	R0603	rcl	(0.27 1.745)	R90
RT84	10.0k	R0603	rcl	(0.383 1.766)	R180
RT85	220	RA_4_1206	resistor-array	(0 3.1)	MR0
RT86	220	RA_4_1206	resistor-array	(4.335 2.625)	R270
RT87	220	RA_4_1206	resistor-array	(6.375 0.215)	MR180
RT88	220	RA_4_1206	resistor-array	(2.07 3.63)	MR0
RT89	220	RA_2_0606	resistor-array	(0.225 1.225)	MR270
RT90	220	RA_2_0606	resistor-array	(0.175 2.355)	MR0
RT91	220	RA_2_0606	resistor-array	(4.335 2.51)	R90
RT92	220	RA_2_0606	resistor-array	(4.49 1.135)	MR90
RT93	27	RA_2_0606	resistor-array	(4.23 1.26)	R180
RT94	1.5k	R0603	rcl	(3.665 1.285)	R90
RT95	56k	R0603	rcl	(4.285 2.205)	R180
RT96	10.0k	R0603	rcl	(1.8 2.765)	R180
RT97	10.0k	R0603	rcl	(1.915 2.845)	R0
RT98	100k	R0603	rcl	(2.375 0.41)	MR0
RT99	10.0k	R0603	rcl	(6.655 1.025)	R0
RT100	22	R0603	rcl	(6.655 1.025)	R0
RT101	22	R0603	rcl	(6.655 1.025)	R0
RT102	0	R0603	rcl	(0.565 1.9)	MR0
RT103	220	RA_2_0606	resistor-array	(0.395 1.625)	MR270
RT104	220	RA_4_1206	resistor-array	(1.87 1.06)	R0
RT105	NP	R0603	rcl	(3.52 1.425)	MR180

RT106	10.0k	R0603	rcl	(6.655 1.025)	R0
RT107	220	R0603	rcl	(4.48 1.57)	R90
RT108	330k	R0603	rcl	(4.32 1.36)	R180
RT109	330k	R0603	rcl	(4.425 1.795)	R270
RT110	1.5k	R0603	rcl	(4.12 1.255)	R180
RT111	10.0k	R0603	rcl	(4.48 1.42)	R90
RT112	10.0k	R0603	rcl	(2.65 1.875)	MR90
RT113	0	R0603	rcl	(0.575 2.38)	R180
RT114	0	R0603	rcl	(0.575 2.565)	R180
RT115	NP	R0603	rcl	(2.385 1.86)	R0
RT116	10.0k	R0603	rcl	(3.84 1.8)	R270
RT117	10.0k	R0603	rcl	(6.655 1.025)	R180
RT118	22	R0603	rcl	(6.655 1.025)	R90
RT119	22	R0603	rcl	(6.655 1.025)	R90
RT120	10.0k	R0603	rcl	(6.655 1.025)	R180
RT121	10.0k	R0603	rcl	(6.655 1.025)	R0
RT122	220	RA_2_0606	resistor-array	(6.355 1.155)	MR0
RT123	22	RA_4_1206	resistor-array	(6.655 0.025)	R0
RT125	10	R0603	rcl	(1.985 0.245)	R0
RT126	220	RA_4_1206	resistor-array	(2.635 0.345)	MR0
RT127	220	RA_4_1206	resistor-array	(1.32 1.045)	R90
RT128	220	RA_4_1206	resistor-array	(3.735 2.525)	MR0
RT129	220	RA_4_1206	resistor-array	(6.655 0.025)	R90
RT130	220	RA_4_1206	resistor-array	(6.655 1.025)	R270
RT131	22	RA_4_1206	resistor-array	(6.655 1.025)	R0
S1	SWS004	SMS-004	smd-special	(2.795 0.94)	R0
S2		B3F-31XX	switch-omron	(0.34 3.77)	R180
S3	G3T12AP_SPDT	G3T12AP_SP	switch-robocup	(1.975 0.005)	R270
S4	KMR2	KMR2	switch-robocup	(4.07 1.035)	R180
S5	94HBB16RAT	HEX-RA-2C	switch-robocup	(3.38 3.865)	R270
U\$24	MMBD4448HTW	MMBD4448HTW	Diode-Array	(1.54 0.535)	R90
U\$25	MMBD4448HTW	MMBD4448HTW	Diode-Array	(1.27 2.965)	R90
U\$26	MMBD4448HTW	MMBD4448HTW	Diode-Array	(3.58 2.96)	R270
U\$27	MMBD4448HTW	MMBD4448HTW	Diode-Array	(6.655 0.025)	R0
U\$28	MMBD4448HTW	MMBD4448HTW	Diode-Array	(6.655 1.025)	R0
U1	XC3S100E	TQFP144	xilinx	(1.817 1.636)	R0
U2	M25P10	SO08	st_micro	(2.504 2.062)	MR0
U3	LM2734	SOT23-6L	power	(0.33 1.59)	R180
U4	MCP1824T-1202E/OT	SOT23-5	power	(0.415 2.34)	R270
U5	MCP1824T-2502E/OT	SOT23-5	power	(0.415 2.525)	R270
U6	FAN7380	SO08	microchip	(-1.125 1.6)	MR270
U7	AT91SAM7S256	SQFP-S-10X10-64	at91sam7	(3.455 1.765)	R90
U8	MCP1824ST-3302E/DB	SOT223	power	(0.46 2.02)	R90

U9	FAN7380	SO08	microchip	(-1.23 1.475)	MR270
U10	CC1101	QLP20	radio	(4.2 2.06)	R0
U11	FAN7380	SO08	microchip	(-1.11 1.18)	MR270
U12	FAN7380	SO08	microchip	(0.5 2.88)	MR0
U13	0896BM15A0001	0896BM15A0001	radio	(4.415 2.05)	R0
U14	FAN7380	SO08	microchip	(0.82 2.88)	MR0
U15	FAN7380	SO08	microchip	(1.14 2.88)	MR0
U16	FAN7380	SO08	microchip	(3.57 2.88)	MR0
U17	FAN7380	SO08	microchip	(3.89 2.88)	MR0
U18	FAN7380	SO08	microchip	(4.21 2.88)	MR0
U19	IMU3000	IMU3000	inertial-sensors	(1.805 3.015)	R180
U20	KXTF9-2050	KXTF9	inertial-sensors	(1.815 3.315)	R270
U21	FAN7380	SO08	microchip	(6.655 0.025)	MR0
U22	FAN7380	SO08	microchip	(6.655 0.025)	R0
U23	FAN7380	SO08	microchip	(6.655 0.025)	R0
U24	FAN7380	SO08	microchip	(6.655 1.025)	MR0
U25	FAN7380	SO08	microchip	(6.655 1.025)	R0
U26	FAN7380	SO08	microchip	(6.655 1.025)	R0
X1	18.432MHz	XTAL_LCC	oscillator	(1.925 1.12)	MR0
X2	644-1055-1-ND	XTAL-3.2X2.5	radio	(4.22 1.85)	R180