Parts List

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		002R 802-HC-C2 MOTOR BC	OARD		Type Revision Status Date	PL D U 10/7/2011	PCB Package ION Footprint Package Qty Bin Loc.	1	
SUBA					Ву			SUBA	
Item	Qty Unit	Part Number	Type Rev	Title Detail				Referenc	е
		ION Footprint				Mfr P/N	N .		Mfr Name
1	1 each	515501-0001R	DWG D	PWB,DR	V830X-HC-(C2 MOTOR B	SOARD		
2	1	515502-0001	DOC	LOGIC,	RV830X-HC	C-C2 MOTOR	BOARD		
	each		D	SCH					
4	1	103742-0001R	PS		P16,TRANS	LATOR,6-BI		U7	
	each	pw16-14x70		MATL			TXB0106PWR		Texas Instruments
5	1 each	103808-0002R	PS	IC,TSSO MATL	P56,THREE	PHASE PRE	- DRIVER DRV8302DCA	U1	Texas Instruments
7	2	103805-0001R	PS	IC,SOT2	3-5,OP AMP)		U13, U	9
	each			MATL			OPA365AIDBVR		
		dbv-20x60-5							Texas Instruments
8	1 each	103806-0001R dw16-25x75-375	PS	IC,SOIC,	HIGH SPEE	D QUAD DIG	ISO7241ADW	U5	Texas Instruments
9	1 each	103518-0001R	PS	IC,SMT8	,ISOLATED	CAN TRANS	SCEIVER ISO1050DUBR	U4	
		dub8-35x90							Texas Instruments
10	1 each	103743-0001R	PS	IC,DBV6	DUAL SCH	MITT-TRIGG SI	ER BUFFER N74LVC2G17DBVR	U6	
		dbv6-27x39-6							Texas Instruments
11	2 each	103807-0033R	PS	IC,DBV5	,LDO REGU	ILATOR,3.3V	,400mA PS73633MDBVREP	U3, U8	
		dbv-20x60-5		I					Texas Instruments

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Item	Qty Unit	Part Number	Type Rev	Title Detail		Reference
		ION Footprint			Mfr P/N	Mfr Name
12	1 each	103739-0005R	PS	POWER MODULE,5V,1W,A	DCH010505SN7	U2
		edj4-6040				Texas Instruments
15	2 each	103825-0001R	PS	TRANSISTOR,SOT23,MOS MATL	FET,150V,530mA SI2325DS-T1-E3	Q1, Q2
	ı			'		Vishay Intertechnology
16	1 each	103824-0001R	PS	TRANSISTOR,SOT23,MOS MATL	FET,N CHANNEL 2N7002E,215	Q3
	eacii	SOT23-28X44-GSD		MATE	2.11.0022,2.10	NXP Semiconductors
17	6	103810-0001R	PS	TRANSISTOR,TO263,MOS	FET,60V,110A SUM110N06-3M9H-E3	Q4, Q5, Q6, Q7, Q8, Q9
	each			MATL	SOM FOMOG-SMAH-ES	Vishay Intertechnology
18	3	103952-0001R	PS	IC,SO5,OP AMP,1.8V	T	U10, U11, U12
	each	dbv5-27x39		MATL	TLV2781IDBVR	Texas Instruments
		30,0 20,000				
20	1 each	103820-0001R	PS	DIODE,SMT,SCHOTTKY,2A MATL	A,100V CDBB2100-G	D1
]			1 =		Comchip Technology
25	5	103827-0002R	PS	LED,SMT 0805,GREEN		LED1, LED10, LED11,
	each	1, 10, 47,		MATL	LTST-C170KGKT	LED12, LED3
		led2-47sq				LITEON
26	1	103827-0001R	PS	LED,SMT 0805,SUPER REI	D LTST-C170KRKT	LED6
	each	led2-47sq		MATL	LISI-CITURRA	LITEON
		1002 47 09				EFFECIN
27	1	103330-0003R	PS	LED,SMT 0805,YELLOW	LTST-C171YKT	LED5
	each			MATL	LIGI GITTIKI	LITEON
30	1 each	103135-0331R	PS	INDUCTOR,SMT,33uH MATL	DR74-330-R	L1
	I	dr74-98x126		1		Coiltronics Incorporated

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Item	Qty Unit	Part Number	Type Rev	Title Detail		Reference
		ION Footprint			Mfr P/N	Mfr Name
40	1 each	103818-0222R	PS	MATL	SMT,220uF,10V EEE-1AA221XP	C57 Panasonic
45	2 each	103819-0332R	PS	CAP,ELEC,I	RADIAL,330uF,100V,20% UVZ2A331MHD	C93, C94 Nichicon Corporation
46	1 each	103817-0103R	PS	MATL	RADIAL,1000uF,100V,20% ECA-2AHG102	C50 Panasonic
50	1 each	103815-0471R c1210-70x102	PS	CAP,CER,SI MATL	MT 1210,47uF,16V,X5R,+/-20% EMK325BJ476MM-T	C11 Taiyo Yuden
51	5 each	103814-0220R c1210-70x102	PS	CAP,CER,SI MATL	MT 1210,2.2uF,100V,X7R,+/-10% C3225X7R2A225K	C6, C7, C81, C82, C83 TDK Corporation
55	1 each	101415-0220R c805-35x60	PS	CAP,CER,SI	MT 0805,2.2uF,25V,X7R,10% 08053C225KAT2A	C14 AVX Corporation
56	3 each	103813-1100R c805-35x60	PS	CAP,CER,SI MATL	MT 0805,.1uF,100V,+10/-10%,X7R C0805C104K1RACTU	C5, C51, C8 Kemet Electronics Corporation
58	1 each	100993-1682R c603-35x45	PS	CAP,CER,SI MATL	MT 0603,6800pF,50V,+/-10%,X7R ECJ-1VB1H682K	C1 Panasonic
59	1 each	101002-1394R c603-35x45	PS	CAP,CER,SI MATL	MT 0603,39pF,50V,+/-5%,NPO ECJ-1VC1H390J	C2 Panasonic
60	5 each	102965-0220R c603-35x45	PS	MATL	MT 0603,2.2uF,10V,+/-10%,X7R GRM188R71A225KE15D	C20, C22, C44, C46, C48 Murata Electronics

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
61	5 each	103594-0100R	PS	CAP,CER,SMT 0603,1uF,25V,+/-10%,X5R MATL GRM188R61E105KA12D	C10, C12, C15, C19, C23
		c603-35x45			Murata Electronics
62	4	103816-1470R	PS	CAP,CER,SMT 0603,.47uF,25V,+/-10%,X7R	C29, C30, C31, C33
	each			MATL GRM188R71E474KA12D	
		c603-35x45			Murata Electronics
63	28	100993-1100R	PS	CAP,CER,SMT 0603,.1uF,50V,+/-10%,X7R	C13, C16, C17, C18,
	each			MATL 06035C104KAT2A	C21, C24, C25, C26, C27, C28, C32, C34,
					C35, C42, C43, C45, C47, C58, C59, C67,
					C68, C69, C72, C74, C76, C77, C85, C9
		c603-35x45			AVX Corporation
64	1	100993-1221R	PS	CAP,CER,SMT 0603,.022uF,50V,+/-10%,X7R	C3
	each			MATL GRM188R71H223KA01D	
		c603-35x45			Murata Electronics
65	1	102482-1101R	PS	CAP,CER,SMT 0603,.01uF,100V,+/-10%,X7R	C53
	each			MATL C1608X7R2A103K	
		c603-35x45			TDK Corporation
66	1	100993-1151R	PS	CAP,CER,SMT 0603,.015uF,50V,+/-10%,X7R	C4
	each			MATL ECJ-1VB1H153K	
		c603-35x45			Panasonic
67	12	100993-1102R	PS	CAP,CER,SMT 0603,.001uF,50V,+/-10%,X7R	C36, C37, C38, C39,
	each			MATL 06035C102KAT2A	C40, C41, C75, C78, C79, C80, C84, C98
		c603-35x45			AVX Corporation
75	1	103811-1003R	PS	POT,12mm SQ,10K,1/8 WATT,SINGLE TURN	R28
	each			MATL 296UD103B1N	
					CTS Electronics Corporation
80	14	100687-0001R	PS	RES,SMT 0603,0 OHM,1/16 WATT	R109, R110, R111,
	each			MATL ERJ-3GEY0R00V	R112, R117, R130, R133, R134, R135, R5, R50, R91, R97, R98
		r603-35X45			Panasonic

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
81	7 each	100687-0100R	PS	RES,SMT 0603,1 OHM,5%,1/16 WATT MATL ERJ-3RQJ1R0V	R66, R67, R68, R69, R70, R71, R8
		r603-35X45			Panasonic
82	1 each	100642-1000R	PS	RES,SMT 0603,10 OHM,1%,1/16 WATT	R87
	000	r603-35x45		······-	Panasonic
84	1 1	100687-1201R	PS	RES,SMT 0603,120 OHM,5%,1/16 WATT MATL	R17
	each	r603-35X45		INATE ETG GGETGTET	Panasonic
85	11	100687-1002R	PS	RES,SMT 0603,1K OHM,5%,1/16 WATT	R12, R13, R21, R29,
	each	202.05745		MATL RC0603JR-071KL	R30, R31, R32, R33, R34, R43, R47
		r603-35X45			Yageo
86	1 each	100687-8201R	PS	RES,SMT 0603,820 OHM,5%,1/16 WATT MATL ERJ-3GEYJ821V	R49
	I	r603-35X45		1	Panasonic
87	4 each	100687-4701R	PS	RES,SMT 0603,470 OHM,5%,1/16 WATT MATL	R20, R22, R23, R26
	I	r603-35X45			Panasonic
88	5 each	100687-3301R	PS	RES,SMT 0603,330 OHM,5%,1/16 WATT MATL	R14, R15, R18, R24,
	000	r603-35X45		······-	Panasonic
91	1	100642-1004R	PS	RES,SMT 0603,100K OHM,1%,1/16 WATT MATL RC0603FR-07100KL	R40
	each	r603-35x45		MATL RC0603FR-07100KL	Yageo
92	1	100642-1963R	PS	RES,SMT 0603,19.6K OHM,1%,1/16 WATT	R41
	each	r603-35x45		MATL ERJ-3EKF1962V	Panasonic
93	5	100642-1003R	PS	RES,SMT 0603,10K OHM,1%,1/16 WATT MATI	R10, R11, R7, R9, R44
	each	r603-35x45		MATL ERJ-3EKF1002V	 Panasonic

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
94	1 each	100642-2054R r603-35x45	PS	RES,SMT 0603,205K OHM,1%,1/16 WATT MATL ERJ-3EKF2053V	R1 Panasonic
95	1 each	100642-2803R r603-35x45	PS	RES,SMT 0603,28K OHM,1%,1/16 WATT MATL ERJ-3EKF2802V	R4
96	13 each	100642-4992R r603-35x45	PS	RES,SMT 0603,4.99K OHM,1%,1/16 WATT MATL ERJ-3EKF4991V	R122, R123, R124, R125, R126, R127, R19, R25, R36, R48, R62, R64, R65
97	2 each	100642-4993R r603-35x45	PS	RES,SMT 0603,49.9K OHM,1%,1/16 WATT MATL ERJ-3EKF4992V	R128, R129
98	1 each	100642-5363R r603-35x45	PS	RES,SMT 0603,53.6K OHM,1%,1/16 WATT MATL ERJ-3EKF5362V	R6
99	4 each	100642-9533R r603-35x45	PS	RES,SMT 0603,95.3K OHM,1%,1/16 WATT MATL ERJ-3EKF9532V	R35, R60, R61, R63 Panasonic
101	6 each	103951-2003R r603-35x45	PS	RES,SMT 0603,20K OHM, .1%,1/10 WATT MATL ERA-3AEB203V	R103, R105, R107, R108, R113, R95
102	2 each	103951-1003R r603-35x45	PS	RES,SMT 0603,10K OHM, .1%,1/10 WATT MATL ERA-3AEB103V	R37, R38
103	6 each	103951-1002R r603-35x45	PS	RES,SMT 0603,1K OHM, .1%,1/10 WATT MATL ERA-3AEB102V	R99, R101, R104, R92, R94, R102 Panasonic
106	1 each	100155-0100R r1206-40x70	PS	RES,SMT 1206,1 OHM,5%,1/4 WATT MATL ERJ-8GEYJ1R0V	R16 Panasonic

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
108	1 each	100155-0330R r1206-40x70	PS	RES,SMT 1206,3.3 OHM,5%,1/4 WATT MATL ERJ-8GEYJ3R3V	R39 Panasonic
110	3 each	103809-0002R	PS	RES,SMT 4527,.002 OHM,1%,5W MATL WSR52L000FEA	R80, R81, R82 Vishay Intertechnology
115	2 each	102984-0001R sw4-50x70-7914J	PS	SWITCH,SMT,PUSHBUTTON,MOMENTARY,4mm MATL 7914J-1-000E	SW1, SW2
120	2 each	103823-0002R	PS	TERMINAL BLOCK,2 POS.,VERT.,15mm SPC.,90A MATL 39920-0502	J25, J26 Molex
121	1 each	103821-0002R	PS	TERMINAL BLOCK,2 POS.,VERT.,5mm SPC. MATL ED500/2DS	J2 On-Shore Technology, Inc.
122	1 each	103823-0004R	PS	MATL 39920-0504	J11 Molex
125	1 each	102232-0100R molex100-71251-5101	PS	CONN,100 PIN,DIMM SOCKET,W/EXTRACTORS MATL 87630-1001	J1 Molex
129	6 each	JUMP1X2-6040	PL	HEADER,2 X 1,VERTICAL,PIN SUBA	J12, J13, J23, J24, JP2, JP4
130	1 each	JUMP1X3-6040	PL	HEADER,3 X 1,VERTICAL,PIN SUBA	J7
133	4 each	JUMP1X5-6040	PL	HEADER,5 X 1,VERTICAL,PIN SUBA	J10, J4, J6, J8

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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference
		ION Footprint		Mfr P/N	Mfr Name
134	1 each	JUMP2X5-6040	PL	HEADER,5 X 2,VERTICAL,PIN SUBA 2011-2X05G00SB/SN	J20 Oupiin
135	1 each	100116-0007R JUMP2X7-6040	PL	HEADER,7 X 2,VERTICAL,PIN SUBA 2011-2X07G00SB/SN	J21 Oupiin
136	1 each	100116-0020R conn40-5638	PL	HEADER,20 X 2,VERTICAL,PIN SUBA	J5
145	10 each	103020-5003R	PS	TEST POINT,ORANGE MATL 5003	TP12, TP13, TP14, TP16, TP17, TP19, TP23, TP24, TP25, TP3 Keystone Electronics Corp.
146	4 each	103020-5000R	PS	TEST POINT,RED MATL 5000	TP11, TP4, TP5, TP6 Keystone Electronics
147	5 each	103020-5001R	PS	TEST POINT,BLACK MATL 5001	Corp. TP10, TP20, TP7, TP8, TP9 Keystone Electronics Corp.
150	2 each	100123-0001R	PS	JUMPER,SHUNT,2 POS MATL SPC02SYAN	JP2, JP4 Sullins Electronics, Corp.
151	8 each	100329-0250R	PS	SCREW,PHILLIPS,PAN,SS,4-40 X .250 MATL 0440X0250PNPHSSPS	XMH1, XMH2, XMH3, XMH4, XMH5, XMH6, XMH7, XMH8 Above Board Electronics,Inc.
152	each	103812-0875R	PS	SPACER,ROUND,ALUM,4-40,.187 O.D. X .875L MATL 2030	XXMH1, XXMH2, XXMH3, XXMH4, XXMH5, XXMH6, XXMH7, XXMH8 Keystone Electronics Corp.
155	8 each	C0603-NOPOP c603-35x45	PS	NP	C52, C86, C87, C88, C95, C96, C97, C73

Parts List

ASSY,DRV8302-HC-C2 MOTOR BOARD SUBA

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Otv	Part Number	Type	Title	Reference

Item	Qty Unit	Part Number	Type Rev	Title Detail		Reference
		ION Footprint			Mfr P/N	Mfr Name
160	7 each	R0603-NOPOP	PS	NP		R2, R3, R42, R45, R46, R119, R132
		r603-35X45				
170	1 each	NO-POP	PS	NP		D2
200	6 each	TP-27SQ15-NO-POP	PS	NP		TP1, TP15, TP18, TP2, TP21, TP22