-	Designator	Description	Comment	ManufacturerI	Footprint
	SBC1	KARO TX28 SINGLE BOARD COMPUTER, 26mm SO-DM	TX28400/645/13 F/I	KARO ELECTRONICS PN:TX28/400/645/128F/I	SBC KARO TX25 SM SOCKETED
	A1	ASSESSET, RF SICOCEL, 2.4GHz	XBP24-AU1-250	AUF001	SOCKETED
41	DH1	BATTERY, HOLDER, 1225	500	KEYSTONE PN: 500	16mm
-	D1	BATTERY, 1225, 3V CAPACITOR, CERAMIC, 5%	BR1225	PANASONIC PN: BR 122	SOCKETED
*	CSB	SOV, 680pF CAPACITOR, CERAMIC, 5%	0805SAGBIJATZ		0805
	CS9 C6	SOV, 47pF CAPACITOR, CERAMIC, 101	08055A470JAT2	<b>.</b>	onos onos
	C74	100V, 220pF CAPACITOR, CERAMIC, 101 100V, 22nF			0805
- 74	C23, C25	CAPACITOR, CERAMIC, 101 10V, 1uF	08051C223KAT2 C0805C105KBR/ C		0805
17	C64, C66	CAPACITOR CERAMIC, 101 250V, 0.1uF	CTU		1206
2	CR, C34	100V, 2.2uF	C1210C225K1K		1210
25	C1, C2, C3, C4, C5, C7, C16, C17, C18, C21, C C28, C29, C30, C35, C35, C40, C44, C48, C49, C51, C70, C71, C73, C76	CAPACITOR, CERAMIC, 101 100V, 0.1uF	C0805C104K1RA		0805
2	C10, C50, C57	CAPACITOR, CERAMIC, 5% 50V, 100pF CAPACITOR, CERAMIC, 101	08055A101JAT2		0005
4	C61, C62, C63, C65	CAPACITOR, CERAMIC, 101 250V, 22±F CAPACITOR, CERAMIC, 101	C0805C223KAR		0805
4	C67, C69, C69, C78	100V, 0.01uF CAPACITOR, CERAMIC, 101	08051C103KAT2	•	0805
5	C12, C19, C22, C24, C79	CAPACITOR, CERAMIC, 5%	08053C 105KAT2	•	0805
	C13, C38, C39, C40, C41	100V, 22pF CAPACITOR, CERAMIC, 101	08051A220JAT2		0805
	C15, C52, C53, C54, C55 C11	100V, 1nF CAPACITOR, TANTALON, 10%, 20V, 100HF	1495E 10900204		7260.38
-	C27	10%, 10V, 47uF	9		6032-28
-	C42	CAPACITOR, TANTALON, LOWESR, 10%, 20V, 33uF CAPACITOR, SUPER, 5.0V,	9		7343-31
-	C60	CAPACITOR, SUPER, S.OV, 0.47sF CAPACITOR, TANTALUM,	PM-SR0V474-R T49534768000A	COOPERBUSSMANN P PM-SR0V474-R	PM-SROV474-R SUP CAP
2	014, 032	10%, 20V, 47uF CAPACITOR, TANTALUM,	0065 T491A106M010A		7343-43
2	C20, C37	20%, 10V, 10uF CAPACITOR, TANTALUM,	T T495A105K025Z		3216-18
2	CM, C75	10%, 25V, 1uF CAPACITOR, TANTALOM,	E4KO T4SOXTOSMUSOF		3216-13
2	CB, C33 C47, C72, C77	20%, 50V, 10uF CAPACITOR, TANTALON, LOWESR, 10%, 25V, 4.7uF	1490x47500257		7343-43 3216-18
	JI	CONNECTOR, SINGLE ROP 0.5mm, 18POS	0F2M-1815-1A	OMRON XF2M-1815-1A	CONCERNI CHIRLINI 18
1	и	SOCKET, DOR1 & DOR2	1473005-1	TYCO PN: 1473005-1	CONCERN 110017
ļ	12,13	CONNECTOR, DUAL ROW, SONIL 16POS	MS0-49YMAK	HARWIN PN: MSO- 4900845	CON_SMT HARWIN
2	15,36	CONNECTOR, SOCKET, SINGLE ROW, 10POS	SMM-110-02-5-5	SAMTEC PR: SMM-110-1 S-S	CON_SMT SOCKET ROW 258M 10POS
-	DIS	DICOE, RECTIFIER, 3A, 600	53J-63/57T	VISHAY PN: S3J-E357T	SMC
	D17	175mA	BAS16W-7-F	DIODES INC PIX BASTE 7-F DIODES INC PIX BZXMC13-7-F	SOT323 A1,C3
-	D%	DIDDE, ZENER, 13V, 350mV	BZXMC13-7-F		SOT23 A1,C3
1	D18	DICCE, ZENER, 39V, 350mV	8ZXMC39-7-F	BZXMC39-7-F DOUGS INC PRE BUSIN-	S0T23 A1,C3
5	D6, D7, D13, D20, D21	DIDDE, SCHOTTKY, 60V	8360A-13-F	13-F	SMA
1	D10 D14	DIRECTIONAL, 8.5V DICCE, TVS, 81- DIRECTIONAL, 100V	SMBJB SCA	BOURNS PN: SMBUBSC	EMB, NON-POLARA
5	D14 FB1, FB3, FB4, FB5, FB6	DIRECTIONAL, 100V FERRITE BEAD, 3A, 25 mOI	SMILJ100CA 8W2792114	WURTH PN: 742792114	EMB, NON-POLARA FERRITE BEAD- WURTH1206
	F1	FUSE, THERMAL, 1.5A	1206L150THWR	LITTELFUSE PN:	1206
1	U14	C, QUAD, BUFFER, NON- NVERTING, 3-STATE C, CONVERTER, USB TO	MC74HC126ADG	ON SEMI PN: MC74HC126ADG	SO14
100	US	SERIAL RS232	FT232RL	FTDI PN: FT232RL	TSSOP28
-	U2	MAGNETICS, 1 PORT	H1102NL	PULSE PN: H1102NL	911102NL
-	us	MOTION SENSOR, 3-AXIS IC, REGULATOR, LOW NOS	LISCONDLH CT1761ISS-	ST PN: LISSSIDLH LINEAR PN: LT1/61ISS-	LGA16
	U15	LDO, 100mA IC, SINGLE DVIOV VOLTAGE	DIFTRADE CTC2912FS8- 29TRMADE	SHTRPSF CHEST LTC2912/158-	TSOT23-5
		MONITOR IC CONSTRUTED DC DC	CYTRMPSF LTC3112EFE#P1	ONTRIMPER	TSOT23-8
4	UB	IC, CONVERTER, DC-DC, REGULATED OUTPUT, 2:5A IC, CONTROLLER, STEP	F CTCSHD4H0GE49	LINEAR PN LTC3112EFE#PBF LINEAR PN	TSSOP20 EXPOSED
1	U7	DOWN, HIGH VOLTAGE IC, POWER PATH CONTROLLER	or	LTC382NIMSE#PBF	PAD
4	UG IM		LTC4412ISE#PB	LTC4412ISE#PBF ST PN:M24C64-WDWKP	T50723
-	U4 U17	IC, EEPROM, ICC BUS, 64K E., MUSFET PWK SW, P CHANNEL, 1.2A	M24C64-WDW6	MAXIM PN: MAXIBULES.	TSSOP8 SOR
	UI	IC, TRANSCEIVER, RS-232 IC, VOLTAGE DETECTOR,	MAY1222EELID	MAXIZZZEEUP	TSSOP20
1	U%	IC, VOLTAGE DETECTOR, 3.0V	NCP303LSN30T G	ON SEMI PN: NCP303LSN30T1G	SOT25(23-5)
1	U18	w, wos exercholdr, ISC, 8- Bit	PCA9500PW	NXP PN: PCASS00 DIODES INC PN:	TSSOP16
1	U19	IC, CURRENT MONITOR	ZXCT1009 MSS1278T-	DICIDES INC PN: ZXCT1Oxx COLCRAFT PN: MSS1278T-472ML	ZXCT10xx (SOT23) INDUCTOR_SMT COLCRAFT MSS12
-	Li	NOUCTOR, SHELDED, 474 NOUCTOR, SHELDED, MODEL 473-41	473ML		
-	L10 L9	850mA, 47uH NUOCTOR, SPIELDED, 1.3P 100uH	29473C 882477G2104M	MURATA PN: 29473C EPCUS PN: B82477G2104M	NDUCTOR_SMT 29 NUCCTOR_SMT EP 082477G2
2	12,13	NDUCTOR, SHELDED, 4.7s	MSS1048-472NL	COLUMN 1 PRE MISSIO 472NL	NUCCIOR_SMI COLURAFT MSS10
4	JP1, JP2, JP3, JP4	NDUCTOR, SHELDED, 4.7s JUMPER, 2-CKT, 2MM, JUMPER, 4-CKT, 2MM	57202-G52-02LF	FCI PN: 57202-G52-03LF	CON_SMT FCI 5720
-	DI	DIODE, LED, AMBER	DOMA-A100- COOUT PISMM-A101-	Q00J1 AVAGO HSMM-A101-	PLOC-2 LED_SMT AVAGO H
2	02, 03, 04	DIODE, LED, GREEN MOSFET, N.CHANNEL, 1.9A	R00J1	R00J1	PLUD-2
a	04, 05, 06, 07, 09, 014, 015, 016	30V MOSFET, N-CHANNEL, 20V, 44	FDN357N	FAIRCHILD PN: FONDS7 ON SEMI PN: NTJS3157NT1G	SOT23 G1,52,03
	Q17 Q2, Q3, Q10, Q18	MOSFET, P-CHANNEL, 1A,	NTJS3157NT1G NDS332P	NTJS3157NT1G FAIRCHILD PN: NDS332	SOT263 SOT23 G1,52,03
-	01 01	20V MOSFET, P-CHANNEL, -30V MOSFET, P-CHANNEL, 1501	NDT456P	FAIRCHILD PN: NDT456	
4					
4	QI3	13A	F	R PN: IRF62155TRLPBI	SOT223 G1,53,0084 D2PAK G1,53,0284
4	013 08	13A MOSFET, P-CHANNEL, 60V	F F IRFL9014 C11963AEFE-	IR PN: IRFE215STRLPBI VISHAY PN: IRFL9014 CINEAR TECHT PN:	D2PAK G1,53,D284 SOT223 G1,53,D284
4 4 4	013 08 U9	13A MOSPET, P-CHANNEL, 60V IC, REGULATOR, 1.5A, 3.3V	F RFL9014 CT1960AEFE- 3.3#PBF	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	02PAK G1,53,0284 SOT223 G1,53,0284 TSSOP16 EXPOSED
4	013 08	ISA MOSFET, P-CHANNEL, 607 IC, REGULATOR, 15A, 33V IC, REGULATOR, 30V RESISTOR, CURRENT	F BRFL9014 CTMSCAUFE- 3.2#PSF XC62198302MR	IR PN: IRFE215STRLPBI VEHAY PN: IRFLS014 ENEAR TEUH PN: LT19GAEFE-3.3HPBF TUREX PN: NOS219B302MR	D2PAK G1,53,D284 SOT223 G1,53,D284
	013 08 U9 UH	13A MOSPET, P-CHANNEL, 60V IC, REGULATOR, 1.5A, 3.3V IC, REGULATOR, 3.0V RESIGTOR, CURRENT SENSE, 0.5W, 1%, 0.003 OH	F BRFL9014 CTMSCAUFE- 3.2#PSF XC62198302MR	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	02PAK G1,53,0284 SOT223 G1,53,0284 TSSOP16 EXPOSED
4	013 08 UP UH1 R1	13A WOSFET, P-CHANNEL, 60V IC, REGULATOR, 1.5A, 3.3V IC, REGULATOR, 3.0V RESISTOR, CURRENT SENSE, 0.5W, 1%, 0.033 OH RESISTOR, 0.125W, 1%, 841	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	02PAK G1, 53, D28A S07223 G1, 53, 028A TSSOP16 EXPOSED S0725(23-5) 1206
	013 08 US US US R1 R1	13A MOSPET, P-CHANNEL, 60V IC, REGULATOR, 1.5A, 3.3V IC, REGULATOR, 3.0V RESIGTOR, CURRENT SENSE, 0.5W, 1%, 0.003 OH	F BRFL9014 CTMSCAUFE- 3.2#PSF XC62198302MR	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	02PAK G1, 53, D28A S07223 G1, 53, D28A TSSGP16 EXPOSED S0725(23-5) 1206 0805
	013 08 UP UH1 R1	13A MOSFET, P-CHANNEL, 607- C, REGULATOR, 1.5A, 3.3V/ CC, REGULATOR, 3.0V/ RESISTOR, CURRENT SENSE, 0.3V, 1%, 0.033 CH RESISTOR, 0.129W, 1%, MRSSISTOR, 0.129W, 1%, 18, 182 RESISTOR, 0.129W, 1%, 18, 187 CHM, 0.129W, 1%, 18	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	02PAK G1, 53, D28A S07223 G1, 53, 028A TSSOP16 EXPOSED S0725(23-5) 1206
	013 08 US US US R1 R1	13A WOSFET, P-CHANNEL, 60V IC, REGULATOR, 1.5A, 3.3V IC, REGULATOR, 3.0V RESISTOR, CURRENT SENSE, 0.5W, 1%, 0.033 OH RESISTOR, 0.125W, 1%, 841	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	02PAK G1, 53, D28A S07223 G1, 53, D28A TSSGP16 EXPOSED S0725(23-5) 1206 0805
	O13 OIA OIA OIA R11 R11 R14 RR4 RR5	13A MOSSET, P-CHANNEL, 607  C, REGULATOR, 1.5A, 3.3V  C, REGULATOR, 3.6V  RESISTOR, CLRRENT SENSET, 0.30, 119, 0.003 CH  RESISTOR, 0.120W, 1%, 844  RESISTOR, 0.120W, 1%, 144	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	009AK G1, 33, D384 S01223 G1, 53, D384 TSSQP16 ENPOSED S0125(23-5) 1206 0005 0005
	001 002 003 003 003 003 003 003 003 003 003	13A MOSSET, P-CHANNEL, 607  C, REGULATOR, 1.5A, 3.3V  C, REGULATOR, 3.6V  RESISTOR, CLRRENT SENSET, 0.30, 119, 0.003 CH  RESISTOR, 0.120W, 1%, 844  RESISTOR, 0.120W, 1%, 144	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	00PAK G1, 33, D384 S01223 G1, 53, D384 TSSQP16 ENPOSED S0123(23-9) 1206 9805 9805 9805
	O13 O24 O25	13A MOSPET, P-CHANNEL, 607 C., REGULATOR, 1.5.4, 3.3V C., REGULATOR, 3.0V RESISTOR, CURRENT SONSE, 0.00, 1.5, 0.003 CH RESISTOR, 0.120V, 1.5, 0.003 CH RESISTOR, 0.120V, 1.5, 1.0 CH RESISTOR, 0.120V, 1.5, 5.0 CH RESIS	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	009AK G1, 93, D38A 507223 G1, 53, D38A 7550P16 ENPOSED 50723(23-5) 1206 8805 8805 8805 8805 8805 8805
	O13 O24 O25	13A MOSSTET, PCHANNEL, COV. C., REGULATOR, 15A, 23V. C., REGULATOR, 15A, 23V. REGISTOR, CLERRENT REGISTOR, 0.120V., 15, 643 GOMMAN CONTROL (120V.) 15, 644 GOMMAN CONTROL (120V.) 15, 643	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	009AK G1, 93, D38A 507223 G1, 53, D38A 7550P16 ENPOSED 50723(23-5) 1206 8805 8805 8805 8805 8805 8805
	001 001 000 000 000 000 000 000 000 000	13A (COSTET, P.C.194ANEL, 607 C., REGULATOR, 1.04 A. 207 C., REGULATOR, 3.07 C., REGULATOR, 3.03 C., P.S., 0.03 C., 0.03 C., P.S.,	F 107-12014 1-1106/SATE-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	00PAK G1,53,D3344 60P323 61 53,D324 60P33
	001 001 000 000 000 000 000 000 000 000	13A (COSTET, PCLOWNEEL, 607 (C. REGULATOR, 1.0 A, 2.07 (C. REGULATOR, 3.07 (REGULATOR, 3.	F RFLS014 C119004DFE- 3.38PBF NC62190302MR LRC-LR1206LF- 01-R0233-F CRC-W08058458 KEA	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	009AK G1, 93, D38A 507223 G1, 53, D38A 7550P16 ENPOSED 50723(23-5) 1206 8805 8805 8805 8805 8805 8805
	551 502 503 503 504 505 505 505 505 505 505 505 505 505	13A (13A) (13C) (1	F 107-12014 1-1106/SATE-1-2-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	00994 G1,53,0384 G1,53
	001 001 000 000 000 000 000 000 000 000	13A  (13A)  (13C)  (13C	F 107-12014 1-1106/SATE-1-2-2-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	00PAK G1,53,D3344 60P323 61 53,D324 60P33
	001 001 000 000 000 000 000 000 000 000	134 (135) (137) (1	F STEEDSH THE STEED STATE OF THE STEED STATE OF THE STEED STATE OF THE	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	00994 G1,53,0384 G1,53,0385 G1,53
	551 502 503 503 504 505 505 505 505 505 505 505 505 505	13A  (13A)  (13C)  (13C	F   100   10	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	OSPINA C4 .53. D384 C4 .53. D38
	CO1 CO1 CO	124 (1997) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F STEEDSH THE STEED STATE OF THE STEED STATE OF THE STEED STATE OF THE	VISHAY PN: IRFL9014 CINEAR TECH PN: LT1963AEFE-3.3#PBF TUREX PN:	00994 Gt 03 0284 07730 GT 03 0505 07730 GT 03 0505 07730 GT 03 0505 07730 GT 03 0505 0806 0806 0806 0806 0806 0806 0806
	GG1	CALL CALL CONTROL OF THE CALL CALL CALL CALL CALL CALL CALL CAL	F   100   10	OBJAN PILODA TORONO TOR	DOPAN GI 20. 0284 207220 GI 3. 0284 2086 2086 2086 2086 2086 2086 2086 2086
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	GG1	CANADA CONTRACTOR OF THE CONTR	F   100   10	OBJAN PILODA TORONO TOR	2009-05-03-03-05-05-05-05-05-05-05-05-05-05-05-05-05-
	CO1 CO1 CO	CASA TO SECURISH SECU	F   100   10	OBJAN PILODA TORONO TOR	2007 (C. S. D. D. S.
	GG1	CANADA CONTRACTOR OF THE CONTR	\$70,000 A 100 A 10	OBJAN PILODA TORONO TOR	2009-05-03-03-05-05-05-05-05-05-05-05-05-05-05-05-05-
	CO1 CO1 CO	CASA CONTRACTOR OF THE CONTRAC	## 100 PM	OBJAN PILODA TORONO TOR	2007 (C. S. D. D. S.
1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GG1	CASA TO SECURISH SECU	### CONTROL OF THE PROPERTY OF	OBJAN PILODA TORONO TOR	2007 (C. S. D. D. S.
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.	001 00 00 00 00 00 00 00 00 00 00 00 00	CASA CONTRACTOR OF THE CONTRAC	## 100 PM	OBJAN PILODA TORONO TOR	200946 (2 S. 2.1244 (2 S. 2.124 (2 S. 2.12
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