	Embedded Planet	DES0211_11	Bill of Materials (BOM)
Date:	18-May-2007	Document Version: 14	Prepared by: D. Thorndike



BASE BOARD - RoHS

Embedded Planet, LLC. 4760 Richmond Road, Suite 400 Warrensville Heights, OH 44128 216-245-4180

Document R	evisi	on History			
Date		Description	Author		Version
21-Nov-2006		Initial Release to Production	D. Thorndik	е	10
10-Jan-2007		Added an additional jumper for J2	D. Thorndik	е	11
22-Mar-2007		Added BOM Option items for 667MHz processors	D. Thorndik	e	12
25-Apr-2007		Chgd prog. clock U9, providing 33.333MHz rather than 33.0MHz	D. Thorndik	e	13
18-May-2007		Chgd p/n for CPLD, U25, to Pre-Prog'd part	D. Thorndik	е	14
Sign-Off					
Sign-On		Signature		Date	
Marketing		Oignature		Date	
Operations	×		<u></u>		
Purchasing	×				
Engineering	×		<u> </u>		
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Marketing					
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Option List		
Option	Designator	Function
	440EPx533	PPC440EPx @ 533MHz Core w/ Security Feature
Option 1 (Processor)	440EPx667	PPC440EPx @ 667MHz Core w/ Security Feature
Option i (Flocessoi)	440GRx533	PPC440EPx @ 533MHz Core w/ Security Feature
	440GRx667	PPC440GRx @ 667MHz Core w/ Security Feature
Option 2 (DDR2 SDRAM)	D	256MBytes
	1 00	Locus .
Option 3 (FLASH)	32	32MBytes
-1 (/	64	64MBytes
	A	32MBytes
Option 4 (NAND FLASH)	- / /	ozinsytoo
	•	
Option 5 (EBC Connector)	N	No Pop EBC Bus Expansion Connector
Option 3 (LBC Connector)	E	Populate EBC Bus Expansion Connector
	1 -	-
Option 6 (+/-12V Power)	P	Populate +12V & -12V Power Modules and related parts for PC

Capacitors Base Board Item EP#	EPI#	GRN	Qty	Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
	P10100000000015 P10100000000028			C48,C49,C51,C52 CC1,CC2,CC3,CC4,CC5,CC6,	C48:49,51:52; CC1:23:	18pF 24pF	CAP_18PF_0402_25V_10%_COG CAP_24PF_0402_25V_10%_COG	C_0402_IPC C_0402_IPC	AVX: 04023A180KAT2A AVX: 04023A240KAT2A	KEM: C0402C180K3GAC KEM: C0402C240K3GAC	AVX: 04023A180KAT2A AVX: 04023A240KAT2A	KEM: C0402C180K3GAC KEM: C0402C240K3GAC	
2 1 10 100000000020	1101000000000020	LIIIX		CC7.CC8.CC9.CC10.CC11.	001.23,	2-чрі	CAF_24F1_0402_23V_1078_CCG	C_0402_IF C	AVA. 04023A240KA12A	ILM. CO402C240N3GAC	AVA. 04023A240ICK12A	KLIW. CO402C240K3GAC	
				CC12,CC13,CC14,CC15,CC16, CC17,CC18,CC19,CC20,CC21,	-								
				CC22,CC23 CE-1,CE-2,CE-5									
	P10100000000004 P101000000000025	LHR	3	CE-1,CE-2,CE-5	CE-1:2,5; C14,18:20,31;	100pF	CAP_100PF_0402_25V_10%_X7R	C_0402_IPC	AVX: 04023C101KAT2A	KEM: C0402C101K3RAC	AVX: 04023C101KAT2A AVX: 04023C221KAT2A	KEM: C0402C101K3RAC KEM: C0402C221K3RAC	
5 P10100000000034	P10100000000034	LHR	4	C14,C18,C19,C20,C31 C1P-3,C1P-6,C1P-10,C1P-14	C1P-3,6,10,14;	220pF 470pF	CAP_220PF_0402_25V_10%_X7R CAP_470PF_0402_25V_10%_X7R	C_0402_IPC C_0402_IPC	AVX: 04023C221KAT2A AVX: 04023C471KAT2A	KEM: C0402C221K3RAC KEM: C0402C471K3RAC	AVX: 04023C471KAT2A	KEM: C0402C471K3RAC	
6 P10100000000017	P10100000000017	LHR	7	C33-1,C33-9,C34-1,C34-9, C33-17.C34-17.C58	C33-1,9,17;C34-1,9,17;C58;	1000pF	CAP_1NF_0402_25V_10%_X7R	C_0402_IPC	AVX: 04023C102KAT2A	KEM: C0402C102K3RAC	AVX: 04023C102KAT2A	KEM: C0402C102K3RAC	
7 P10100000000020	P10100000000020	LHR		C178,C183	C178,183;	1000pF,2KV	CAP_1NF_1808_2KV_10%_X7R	C_1808_AVX	AVX: 1808GC102KAT2A	NOV: 1808B102K202NT	AVX: 1808GC102KAT2A	NOV: 1808B102K202NT	
8 P10100000000030	P10100000000030	LHR	1	C32-9	C32-9:	2200nF	CAP_2r2NF_0402_25V_10%_X7R	C_0402_IPC	AVX: 04023C222KAT2A	KEM: C0402C222K3RAC	AVX: 04023C222KAT2A	KEM: C0402C222K3RAC	
9 P10100000000008	P10100000000008	LHR	35	C84,C85,C86,C1P-13,C173,C1-87	C1P-2,5,9,13;C61:63,84:86,170:173	.01uF	CAP_10NF_0402_25V_10%_X7R	C_0402_IPC	KEM: C0402C103K3RAC	VIS: VJ0402Y103KXX	KEM: C0402C103K3RAC	VIS: VJ0402Y103KXX	
				C11-11,C12-11,C13-11,C14-11,									
		+		C33-10,C170,C171,C172,C184, C185,C186,C187,C33-2,C33-3,									
				C34-2,C34-3,C33-11,C33-18,									
		+		C33-19,C34-10,C34-11,C34-18, C34-19									
10 P10100000000001	P101000000000001	LHR	280	CVT-3.C3.CVT-4.C4.CVT-5.	CVT-3:14;C3:5,8:9,11,13,16,21:22,2	0.1uF	CAP_100NF_0402_16V_10%_X7R	C_0402_IPC	VEN: C0402X7R160-104KN	NA	VEN: C0402X7R160-104KN	NA	
		+		C5,CVT-6,CVT-7,CVT-8,C8, CVT-9,C9,CVT-10,CVT-11,	C25-1:10;C26-1;C27-1;C28-1;C31-1								
				C1P-1,C11,C1-1,CVT-12,									
		-		C1-2,CVT-13,C13,C1-3, CVT-14,C1P-4,C1-4,C1-5,									
				C16,C1-6,C1P-7,C1-7,									
		-		C1P-8,C1-8,C1-9,C21,C22, C29,C30,C53,C54,C66,C67,									
			L	C68,C69,C70,C71,C72,C73,									
				C74,C75,C78,C79,C80,C81, C90,C91,C9-1,C92,C93,C98.									
				C99.C100.C101.C10-1.C102.			<u> </u>						
				C10-2,C103,C104,C105, C108,C109,C1-10,C1P-11,									
				C11-1,C1-11,C1P-12,C11-2,									
				C1-12,C11-3,C1-13,C11-4,									
				C1-14,C11-5,C1-15,C11-6, C1-16,C11-7,C1-17,C11-8,									
				C1-18,C11-9,C1-19,C1-20,									
		+		C12-1,C1-21,C12-2,C1-22, C12-3,C1-23,C12-4,C1-24,									
				C12-5 C1-25 C12-6 C1-26									
				C12-7,C1-27,C12-8,C1-28, C12-9,C1-29,C1-30,C13-1,									
				C1-31,C13-2,C1-32,C13-3,									
				C1-33,C13-4,C1-34,C13-5, C1-35,C13-6,C1-36,C13-7,									
				C1-37,C13-8,C1-38,C13-9,									
				C1-39,C1-40,C14-1,C1-41, C14-2,C1-42,C14-3,C1-43,									
				C14-4,C1-44,C14-5,C1-45,									
				C14-6,C1-46,C14-7,C1-47, C14-8,C1-48,C14-9,C1-49,	-								
		+		C1-50,C15-1,C1-51,C15-2, C1-52,C15-3,C1-53,C1-54,									
				C1-52,C15-3,C1-53,C1-54, C1-55,C1-56,C1-57,C1-58,									
		+		C1-59,C1-60,C16-1,C1-61,									
				C1-62,C1-63,C1-64,C1-65, C1-66,C1-67,C1-68,C1-69,									
				C1-70,C1-71,C1-72,C1-73,									
				C174,C1-74,C175,C1-75,									
				C176,C1-76,C177,C1-77, C1-78,C179,C1-79,C180,									
				C1-80,C181,C1-81,C182,									
 		+		C1-82,C1-83,C1-84,C1-85, C1-86,C19-1,C192,C193,									
				C194,C195,C196,C197,C198,									
		+		C199,C20-1,C204,C205, C21-1 C22-1 C22-2 C23-1									
				C21-1,C22-1,C22-2,C23-1, C24-1,C24-3,C24-4,C24-5,									
				C24-6,C24-7,C24-8,C24-9, C25-1,C25-2,C25-3,C25-4,		1	1			1		1	
				C25-5,C25-6,C25-7,C25-8,									
		-	1	C25-9,C26-1,C27-1,C28-1, C31-1,C32-1,C32-2,C32-3,			-			 			
				C32-4,C32-5,C32-6,C32-7,									
		-	1	C33-4,C33-5,C33-6,C33-7, C33-8,C34-4,C34-5,C34-6,			-			 			
				C34-7,C34-8,C11-10,									
		_		C12-10,C13-10,C14-10, C24-10,C24-11,C25-10,			+						
			-	C33-12,C33-13,C33-14,									
		+		C33-15,C33-16,C33-20, C33-21,C33-22,C34-12,			+						
			L	C34-13,C34-14,C34-15,									
		1	F	C34-16,C34-20,C34-21, C34-22,C35-1,C57,C210,C238,									
				C36-1,C37-1			<u> </u>						
11 P10100000000022 12 P10100000000031	P10100000000022 P10100000000031	LHR	2	C206,C211 C7,C23,C47,C233,C236	C206,211; C7,23,47,233,236;	1uF 2.2uF	CAP_1UF_0805_16V_10%_X7R CAP_2r2UF_0805_25V_10%_X7R	C_0805_IPC C_0805_IPC	KEM: C0805C105K4RAC AVX: 08053C225KAT2A	VEN: C0805X7R160-105KN KEM: C0805C225K3RAC	KEM: C0805C105K4RAC AVX: 08053C225KAT2A	VEN: C0805X7R160-105KN KEM: C0805C225K3RAC	
13 P10100000000039	P10100000000039	LHR	4	C228,C232,C235,C32-8	C228,232,235;C32-8;	4.7uF	CAP_4r7UF_0805_10V_10%_X5R	C_0805_IPC	AVX: 0805ZD475KAT2A	KEM: C0805C475K8PAC	AVX: 0805ZD475KAT2A	KEM: C0805C475K8PAC	
14 P10100000000011 15 P10100000000045	P10100000000011 P10100000000045	LHR	5	C24,C25,C26,C27,C28	C24:28; C207;	10uF 10uF	CAP_10UF_0805_6r3V_10%_X5R CAPT_10UF_C6032_25V_20%_L0500	C_0805_IPC CT_6032_IPC	AVX: 08056D106KAT2A AVX: TPSC106M025R0500	KEM: C0805C106K9PAC KEM: T494C106M025AT	AVX: 08056D106KAT2A AVX: TPSC106M025R0500	KEM: C0805C106K9PAC KEM: T494C106M025AT	
16 P101000000000027	P101000000000045 P101000000000027	LHR	20	C2,C6,C32,C64,C65,C76,C77,C82		10uF 622uF	CAP1_100F_C6032_25V_20%_L0500 CAP_22UF_1210_16V_10%_X5R	C1_6032_IPC C_1210_IPC	AVX: 1PSC106M025R0500 AVX: 1210YD226KAT2A	KEM: 1494C106M025A1 KEM: C1210C226K4PAC	AVX: 1PSC106M025R0500 AVX: 1210YD226KAT2A	KEM: 1494C106M025A1 KEM: C1210C226K4PAC	
				C83,C94,C95,C96,C97,C106,									
		-		C107,C202,C203,C216, C24-2,C24-12			-			 			
17 P10100000000041	P101000000000041	LHR	16	CB-1.CB-2.CB-3.CB-4.CB-5.	CB-1:16;	100uF	CAPT_100UF_3528_6r3V_10%_LXXXX	CT_3528_IPC	AVX: TPSB107K006R	KEM: T494B107K006ATH	AVX: TPSB107K006R	KEM: T494B107K006ATH	
		_	<u> </u>	CB-6,CB-7,CB-8,CB-9, CB-10,CB-11,CB-12,CB-13,			+						
				CB-14,CB-15,CB-16			<u> </u>						
18 P10100000000048 19 P10100000000054	P101000000000048	LHR	3	C1,C200,C201 CVT-1,CVT-2,C10,C12,C15,	C1,200:201; CVT-1:2;C10,12,15,17,208:209;	220uF 330uF	CAPT_220UF_D7343_10V_10%_L0050 CAPT_330UF_D7343_4V_10%_L0035	CT_7343_IPC CT_7343_IPC	AVX: TPSD227K010R0050 AVX: TPSD337K004R0035	KEM: T494D227K010ATH NEM: LSR330/4DK35	AVX: TPSD227K010R0050 AVX: TPSD337K004R0035	KEM: T494D227K010ATH NEM: LSR330/4DK35	
18 10 10 10 10 10 10 10 10 10 10 10 10 10	0100000000000	LIIK	- 8	C17,C208,C209	O+1-1.2,O10,12,13,17,200.209;	occui	5.1. 1_33001_D7343_4V_1076_E0033	5/545_II*6	TO DO STROUGHROUSS	TALM. LONGOUMDROD	7.17 A. 11 GEGG/ NUUARUUGG	NEWL EDINGOUNDROD	

Resistors Base Board								Terms				
Item EP#	EPI#		Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1		Notes
20 P11400000000000	P11400000000000	LHR 1	3 R10,R11,R12,R13,R14,R15, R16,R17,R18,R19,R20,R21,	R10:22;	0	RES_0_0402_5%	R_0402_IPC	YAE: 9C04021A0R00JEPF3	BRN: CR0402J/000GLF	YAE: 9C04021A0R00JEPF3	BRN: CR0402J/000GLF	
20 P11400000000000	P11400000000000	LHR	R22 3 RO10.RO11.RO45	RO10:11 45:	0	RES_0_0402_5%_OPT	R 0402 IPC	YAF: 9C04021A0R00.IEPE3	BRN: CR0402.I/000GLF	YAE: 9C04021A0R00.IEPE3	BRN: CR0402.I/000GLF	
20 P11400000000000 21 P11400000000176	P114000000000000	LHR	2 RO39,RO40 23 RDS1,RDS2,RDS3,RDS4,RDS5,	RO39:40 (1/2)+G200;	0	RES_0_0402_5%_OPT3P RES_3r3_0402_5%	R_0402_3P_IPC R_0402_IPC	YAE: 9C04021A0R00JEPF3 YAE: RC0402JR-073R3L	BRN: CR0402J/0R1GLF BRN: CR0402JW3R3GLF	YAE: 9C04021A0R00JEPF3 YAE: RC0402JR-073R3L	BRN: CR0402J/0R1GLF BRN: CR0402JW3R3GLF	
21 P1140000000176	P11400000000176	LHK Z	RDS6,RDS7,RDS8,RDS9,	RDS1:23;	3.3	RES_3/3_0402_5%	R_0402_IPC	YAE: RCU4UZJR-U/3R3L	BRN: CR0402JW3R3GLF	YAE: RCU4UZJR-U/3R3L	BRN: CR0402JW3R3GLF	
			RDS10,RDS11,RDS12,RDS13, RDS14,RDS15,RDS16,RDS17,									
			RDS18,RDS19,RDS20,RDS21, RDS22,RDS23									
22 P11400000000009	P114000000000009		1 R1	R1;	10	RES_10_0805_5%	R_0805_IPC	YAE: 9C08052A10R0JEPF3	BRN: CR0805JE100GLF	YAE: 9C08052A10R0JEPF3	BRN: CR0805JE100GLF	
23 P11400000000174	P1140000000174	LHR 8	80 RDS24,RDS25,RDS26,RDS27, RDS28,RDS29,RDS30,RDS31,	RDS24:103;	22	RES_22_0402_5%	R_0402_IPC	YAE: RC0402JR-0722RL	BRN: CR0402JW220GLF	YAE: RC0402JR-0722RL	BRN: CR0402JW220GLF	
			RDS32,RDS33,RDS34,RDS35, RDS36,RDS37,RDS38,RDS39,									
			RDS40,RDS41,RDS42,RDS43, RDS44,RDS45,RDS46,RDS47,									
			RDS48,RDS49,RDS50,RDS51,									
			RDS52,RDS53,RDS54,RDS55, RDS56,RDS57,RDS58,RDS59,									
			RDS60,RDS61,RDS62,RDS63, RDS64,RDS65,RDS66,RDS67.									
			RDS68,RDS69,RDS70,RDS71, RDS72,RDS73,RDS74,RDS75,									
			RDS76,RDS77,RDS78,RDS79,									
			RDS80,RDS81,RDS82,RDS83, RDS84,RDS85,RDS86,RDS87,									
		+ -	RDS88,RDS89,RDS90,RDS91, RDS92,RDS93,RDS94,RDS95,			 			-			-
			RDS96,RDS97,RDS98,RDS99, RDS100,RDS101,RDS102,									
24 D44 4000000000	D4440000000077	LUD	RDS103	D00402422424	22.4.49/	DEC 2014 0402 49/	D 0402 IP2	VAE- DC04024 A2024FVDF0	DDNI CD0400EVCCD4OLE	VAE- 0004004 ACCENTINES	PRIN CROMOSTICORAGES	
24 P11400000000076	P11400000000076	LHR 2	5 R90,R91,R92,R93,R94,R95, R96,R97,R98,R99,R100,	R90:102,123:134;	22.1, 1%	RES_22r1_0402_1%	R_0402_IPC	YAE: 9C04021A22R1FKPF3	BRN: CR0402FK22R1GLF	YAE: 9C04021A22R1FKPF3	BRN: CR0402FK22R1GLF	
			R101,R102,R123,R124,R125, R126,R127,R128,R129,R130,									
25 P11400000000097	P11400000000097	LHR 1	R131,R132,R133,R134 4 RS-1,RS-2,RS-3,RS-4,RS-5,	RS-1:13;R26;	33	RES_33_0402_5%	R_0402_IPC	YAE: 9C04021A33R0JEPF3	BRN: CR0402JE330GLF	YAE: 9C04021A33R0JEPF3	BRN: CR0402JE330GLF	
			RS-6,RS-7,RS-8,RS-9,R26 RS-10,RS-11,RS-12,RS-13									
26 P11400000000111	P11400000000111	LHR 2	23 RDT1,RDT2,RDT3,RDT4,RDT5,	RDT1:23;	47	RES_47_0402_5%	R_0402_IPC	YAE: 9C04021A47R0JEPF3	BRN: CR0402JE470GLF	YAE: 9C04021A47R0JEPF3	BRN: CR0402JE470GLF	
			RDT6,RDT7,RDT8,RDT9, RDT10,RDT11,RDT12,RDT13,									
			RDT14,RDT15,RDT16,RDT17, RDT18,RDT19,RDT20,RDT21,									
27 P11400000000119	P11400000000119	LHR 1	RDT22,RDT23 6 R103,R104,R105,R106,R107,	R103:110,135:142;	49.9, 1%	RES_49r9_0402_1%	R_0402_IPC	YAE: 9C04021A49R9FKPF3	BRN: CR0402FK49R9GLF	YAE: 9C04021A49R9FKPF3	BRN: CR0402FK49R9GLF	
27 1 11400000000119	11140000000113	DIK I	R108,R109,R110,R135,R136,	100.110,100.142,	45.5, 176	NEG_4915_0402_176	11_0402_IF C	TAL: SCONOZ TANSIKSI KETS	BICIV. CICOMOZI ICMBICOGEI	TAL: SCOROZ TARSKSI KI I S	BINA CROADE NASKADE	
			R137,R138,R139,R140,R141, R142									
28 P11400000000151	P11400000000151	LHR 1	0 R111,R112,R113,R114,R143, R144,R145,R146,R178,R179	R111:114,143:146,178:179;	75	RES_75_0402_5%	R_0402_IPC	YAE: 9C04021A75R0JEPF3	BRN: CR0402JE750GLF	YAE: 9C04021A75R0JEPF3	BRN: CR0402JE750GLF	
29 P11400000000028 30 P11400000000043	P11400000000028		7 R6,R43,R44,R45,R46,R47,R48	R6,43:48; R42.197.199:203:	120, 1%	RES_120_0402_1%	R_0402_IPC	YAE: 9C04021A1200FxPF3	BRN: CR0402FX1200GLF	YAE: 9C04021A1200FxPF3	BRN: CR0402FX1200GLF	
		LHR	7 R42 R197 R199 R200					YAE: 9C04021A180R.IEPE3	BRN: CR0402.IE181GLE			
	P11400000000043		7 R42,R197,R199,R200, R201,R202,R203		180	RES_180_0402_5%	R_0402_IPC	YAE: 9C04021A180RJEPF3	BRN: CR0402JE181GLF	YAE: 9C04021A180RJEPF3	BRN: CR0402JE181GLF	
31 P11400000000093 32 P11400000000048	P1140000000093 P11400000000048	LHR LHR	R201,R202,R203 4 R115,R116,R147,R148 5 R23,R24,R25,R83,R84	R115:116,147:148; R23:25,83:84;	300 1K	RES_300_0402_5% RES_1K_0402_5%	R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF	
31 P11400000000093 32 P1140000000048 33 P1140000000171 34 P1140000000172	P1140000000093	LHR LHR LHR LHR	R201,R202,R203 4 R115,R116,R147,R148 5 R23,R24,R25,R83,R84 1 RSET6 1 RSET7	R115:116,147:148;	300	RES_300_0402_5%	R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L	BRN: CR0402JE301GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L	BRN: CR0402JE301GLF	
31 P11400000000093 32 P11400000000048 33 P11400000000171	P11400000000093 P11400000000048 P11400000000171	LHR LHR LHR LHR	R201,R202,R203 4 R115,R116,R147,R148 5 R23,R24,R25,R83,R84 1 RSET6	R115:116,147:148; R23:25,83:84; RSET6;	300 1K 1.33K, 1%	RES_300_0402_5% RES_1K_0402_5% RES_1733K_0402_1%	R_0402_IPC R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF	
31 P1140000000093 32 P1140000000018 33 P1140000000171 34 P1140000000172 35 P1140000000089 36 P1140000000175	P1140000000093 P1140000000048 P1140000000171 P1140000000172 P1140000000089 P11400000000175	LHR LHR LHR LHR LHR LHR LHR LHR LHR	R201,R202,R203 4 R115,R116,R147,R148 5 R23,R24,R25,R83,R84 1 RSET6 1 RSET7 0 R49,R50,R51,R52,R53,R54, R55,R56,R57,R58	R115:116,147:148; R23:25,83:84; RSET6; RSET7; R49:58;	300 1K 1.33K, 1% 1.96K, 1%	RES_300_0402_5% RES_1K_0402_5% RES_118X_0402_1% RES_1193K_0402_1% RES_277K_0402_5% RES_277K_0402_5%	R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEFF3 YAE: RC0402FR-073K16L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEPF3 YAE: RC0402FR-073K16L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF BRN: CR0402JE273GLF	
31 P1140000000093 32 P1140000000048 33 P1140000000171 34 P1140000000172 35 P1140000000089	P1140000000093 P1140000000048 P1140000000171 P1140000000172 P1140000000089	LHR LHR LHR LHR LHR LHR LHR LHR LHR	R201, R202, R203 4 R115, R116, R147, R148 5 R23, R24, R25, R83, R84 1 RSET6 1 RSET7 0 R49, R50, R51, R52, R53, R54 R85, R56, R57, R58 1 RSET5 0 R27, R28, R29, R30, R31, R32, R33, R34, R35, R60, R61, R62,	R115:116,147:148; R23:25,83:84; RSET6; RSET7; R49:58;	300 1K 1.3K, 1% 1.96K, 1% 2.7K	RES_300_0402_5% RES_1K_0402_5% RES_1730K_0402_1% RES_1796K_0402_1% RES_277K_0402_5%	R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A100TJEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A270TJEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF	
31 P1140000000093 32 P1140000000018 33 P1140000000171 34 P1140000000172 35 P1140000000089 36 P1140000000175	P1140000000093 P1140000000048 P1140000000171 P1140000000172 P1140000000089 P11400000000175	LHR LHR LHR LHR LHR LHR LHR LHR LHR	R201, R202, R203 R115,R116,R147,R148 5 R23,R24,R25,R83,R84 1 RSET6 1 RSET7 1 RSET6 1 RSET7 1 RS	R115:116,147:148; R23:25,83:84; RSET6; RSET7; R49:58;	300 1K 1.3K, 1% 1.96K, 1% 2.7K	RES_300_0402_5% RES_1K_0402_5% RES_118X_0402_1% RES_1193K_0402_1% RES_277K_0402_5% RES_277K_0402_5%	R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEFF3 YAE: RC0402FR-073K16L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEPF3 YAE: RC0402FR-073K16L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF BRN: CR0402JE273GLF	
31 P1140000000093 32 P1140000000018 33 P1140000000171 34 P1140000000172 35 P1140000000089 36 P1140000000175	P1140000000093 P1140000000048 P1140000000171 P1140000000172 P1140000000089 P11400000000175	LHR LHR LHR LHR LHR LHR LHR LHR LHR	R201 R202 R203 4 R115,R116,R147 R148 5 R22,R24,R25,R83,R84 1 R5ET6 1 R5ET7 1 R5ET6 1 R5ET7 1 R5ET6 1 R5ET7 1 R	R115:116,147:148; R23:25,83:84; RSET6; RSET7; R49:58;	300 1K 1.3K, 1% 1.96K, 1% 2.7K	RES_300_0402_5% RES_1K_0402_5% RES_118X_0402_1% RES_1193K_0402_1% RES_277K_0402_5% RES_277K_0402_5%	R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEFF3 YAE: RC0402FR-073K16L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K96L YAE: 9C04021A2701JEPF3 YAE: RC0402FR-073K16L	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1961GLF BRN: CR0402JE272GLF BRN: CR0402JE273GLF	
31 P1140000000093 32 P11400000000048 33 P11400000000173 34 P11400000000173 35 P11400000000175 36 P1140000000175	P1140000000003 P1140000000001 P1140000000017 P1140000000172 P11400000000175 P11400000000175	LHR	R201 R202 R203 4 R115.R116.R147 R148 5 R22.R24.R25,R83,R84 1 RSET6 1 RSET6 1 RSET6 1 RSET6 1 RSET6 0 R49.R25,R53,R54 1 RSET6 0 R27,R28,R29,R30,R31,R32, R33,R34,R35,R60,R61,R62, R63,R74,R56,R67,R68,R67,R68,R67,R68,R67,R68,R67,R68,R67,R68,R67,R68,R67,R68,R69,R67,R67,R74,R73,R74,R73,R74,R73,R76,R78,R78,R78,R78,R78,R78,R78,R78,R78,R78	R115:116,147:148; R23:25,83:84; RSET6; RSET7; R49:58;	300 1K 1.34K 1% 1.39K 1% 1.99K 1% 2.7K 3.16K 1% 93.3K	RES 300, 0402, 5% RES IK (0402, 5% RES IK (0402, 5% RES ITSR (0402, 1% RES 1758K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5%	R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-O71K38J YAE: RC0402FR-O71K98L YAE: 9C0402TA207UJEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3	BRN: CR0402JE301GLF BRN: CR040ZJE102GLF BRN: CR040ZJE102GLF BRN: CR040ZFY331GLF BRN: CR040ZFY39E1GLF BRN: CR040ZFZ7GLF BRN: CR040ZFZ7GLF BRN: CR040ZJE35ZGLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-07H33L YAE: RC0402FR-07H33L YAE: RC0402FR-07H39E YAE: 9C0402FR-07H39E YAE: 9C0402FR-07H39E YAE: 9C0402FR-07H59E	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1391GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF	
31 P1140000000093 32 P1140000000071 33 P1140000000173 35 P1140000000175 37 P1140000000176 38 P1140000000176 38 P1140000000193 39 P114000000023 39 P114000000023	P114000000003 P1140000000007 P114000000007 P114000000017 P114000000007 P114000000007 P1140000000175 P1140000000175 P1400000000106	LHR	R201.R202.R203 4 R115.R116.R147.R148 5 R22.R24.R25.R83.R64 1 RSET6 1 RSET6 1 RSET6 1 RSET6 0 R49.R50.R51.R52.R53.R54, R55.R65.R57.R59 1 RSET6 0 R27.R59.R29.R30,R31.R32, R53.R54.R55.R66.R67.R59 1 RSET6 1 RSE	R115:116,147:148; R22:25,83:84; RSET0; RSET0; RSET7; R840:56; RSE55; R7:27:35,60:82,117:118,180:181,2	300 1K 1.33K, 1% 1.36K, 1% 1.96K, 1% 2.7K 3.16K, 1% 3.3K	RES 300, 0402, 5% RES IK (0402, 5% RES IK (0402, 5% RES 173K 0402, 1% RES 173K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 376K 0402, 5% RES 376K 0402, 5%	R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: ROOMOGPROTHS3 YAE: RCOMOGPROTHS3 YAE: RCOMOGPROTHS6I YAE: 9C0402FR-071K96I YAE: 9C0402FR-073K16I YAE: 9C0402FR-073K16I PAN: ERJ-2RKF3401X YAE: 9C0402TA300TJEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402F133TGLF BRN: CR0402F733TGLF BRN: CR0402F731GLF BRN: CR0402JE332GLF YAE: RC0402JE332GLF YAE: RC0402JE472GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K38L YAE: RC0402FR-071K96L YAE: 9C0402TA071K96L YAE: 9C0402TA3301JEPF3 PAN: ERJ-2RKF3401X YAE: 9C0402TA3301JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1391GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF VAE: RC0402JE332GLF VAE: RC0402JE73GLF BRN: CR0402JE73GLF BRN: CR0402JE73GLF	
31 P1140000000093 32 P1140000000018 33 P1140000000017 34 P1140000000172 36 P1140000000175 37 P114000000016	P1140000000033 P11400000000193 P1140000000017 P114000000017 P1140000000017 P1140000000019 P11400000000106 P11400000000106	LHR	R201.R202.R203 4 R115.R116.R147.R148 5 R22.R24.R25.R83.R64 1 RSETT 1 RSETT6 1 RSETT6 1 RSETT6 0 R40.R50.R51.R52.R53.R54, 0 R40.R50.R50.R50.R51.R52.R53.R54, 0 R40.R50.R50.R50.R50.R51.R52.R53.R54, 0 R50.R50.R50.R50.R50.R51.R52.R53.R54, 0 R50.R50.R50.R50.R50.R50.R50.R50.R50.R50.	R115:116,147:148; R222(5,8384; RSET6; RSET6; RSET5; R49E5; R7.27:35,60:82,117:118,180:181,2	300 1K 1.33K.1% 1.93K.1% 2.7K 3.16K.1% 3.3K	RES. 300. 0.402. 5% RES. 11K. 0.402. 5% RES. 113K. 0.402. 1% RES. 173K. 0.402. 1% RES. 375K. 0.402. 1% RES. 375K. 0.402. 5% RES. 375K. 0.402. 5% RES. 375K. 0.402. 5% RES. 375K. 0.402. 5%	R. 0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33 YAE: RC0402FR-071K38 YAE: RC0402FR-071K96L YAE: 9C04021A2701JEPF3 YAE: 9C04021A3301JEPF3 PAN: ER.J-2RKF3401X	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX331GLF BRN: CR0402FX331GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF VAE: RC0402JE332GLF VAE: RC0402FR-073K4L	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC04026FA-071K33L YAE: RC0402FR-071K38L YAE: 9C04021A2701JEPF3 YAE: 9C04021A2701JEPF3 YAE: 9C04021A3301JEPF3 PAN: ERJ-2RKF3401X	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1391GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF BRN: CR0402JE332GLF YAE: RC0402JF3-073K4L	
31 P1140000000093 32 P1140000000071 33 P1140000000173 35 P1140000000175 37 P1140000000176 38 P1140000000176 38 P1140000000193 39 P114000000023 39 P114000000023	P114000000003 P1140000000007 P114000000007 P114000000017 P114000000007 P114000000007 P1140000000175 P1140000000175 P1400000000106	LHR	R201 R202 R203 4 R115,R116,R147,R148 5 R22,R24,R25,R83,R84 1 R5ET6 1 R5ET6 1 R5ET7 1 R5ET6 1 R5ET7 1 R5ET6 1 R5ET7 1 R	R115:116,147:148; R22:25,83:84; RSET0; RSET0; RSET7; R840:56; RSE55; R7:27:35,60:82,117:118,180:181,2	300 1K 1.33K, 1% 1.36K, 1% 1.96K, 1% 2.7K 3.16K, 1% 3.3K	RES 300, 0402, 5% RES IK (0402, 5% RES IK (0402, 5% RES 173K 0402, 1% RES 173K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 376K 0402, 5% RES 376K 0402, 5%	R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: ROOMOGPROTHS3 YAE: RCOMOGPROTHS3 YAE: RCOMOGPROTHS6I YAE: 9C0402FR-071K96I YAE: 9C0402FR-073K16I YAE: 9C0402FR-073K16I PAN: ERJ-2RKF3401X YAE: 9C0402TA300TJEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402F133TGLF BRN: CR0402F733TGLF BRN: CR0402F731GLF BRN: CR0402JE332GLF YAE: RC0402JE332GLF YAE: RC0402JE472GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K38L YAE: RC0402FR-071K98L YAE: 9C0402TR-071K98L YAE: 9C0402TA301JEPF3 YAE: 9C0402TA3301JEPF3 PAN: ERJ-2RKF3401X YAE: 9C0402TA701JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1391GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF VAE: RC0402JE332GLF VAE: RC0402JE73GLF BRN: CR0402JE73GLF BRN: CR0402JE73GLF	
31 P1140000000093 32 P1140000000071 33 P1140000000173 35 P1140000000175 37 P1140000000176 38 P1140000000176 38 P1140000000193 39 P114000000023 39 P114000000023	P114000000003 P1140000000007 P114000000007 P114000000017 P114000000007 P114000000007 P1140000000175 P1140000000175 P1400000000106	LHR	R201,R202,R203 4 R115,R116,R147,R148 5 R22,R24,R25,R83,R64 1 RSET6 1 RSET6 1 RSET6 1 RSET6 1 RSET7 1 RSET6 1 RSET7 1 RSET6 1 RSET7 1 RSET7 1 RSET6 1 RSET7 1 RS	R115:116,147:148; R22:25,83:84; RSET0; RSET0; RSET7; R840:56; RSE55; R7:27:35,60:82,117:118,180:181,2	300 1K 1.33K, 1% 1.36K, 1% 1.96K, 1% 2.7K 3.16K, 1% 3.3K	RES 300, 0402, 5% RES IK (0402, 5% RES IK (0402, 5% RES 173K 0402, 1% RES 173K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 376K 0402, 5% RES 376K 0402, 5%	R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: ROOMOGPROTHS3 YAE: RCOMOGPROTHS3 YAE: RCOMOGPROTHS6I YAE: 9C0402FR-071K96I YAE: 9C0402FR-073K16I YAE: 9C0402FR-073K16I PAN: ERJ-2RKF3401X YAE: 9C0402TA300TJEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402F133TGLF BRN: CR0402F733TGLF BRN: CR0402F731GLF BRN: CR0402JE332GLF YAE: RC0402JE332GLF YAE: RC0402JE472GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K33L YAE: RC0402FR-071K38L YAE: RC0402FR-071K98L YAE: 9C0402TR-071K98L YAE: 9C0402TA301JEPF3 YAE: 9C0402TA3301JEPF3 PAN: ERJ-2RKF3401X YAE: 9C0402TA701JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1391GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF VAE: RC0402JE332GLF VAE: RC0402JE73GLF BRN: CR0402JE73GLF BRN: CR0402JE73GLF	
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31 P1140000000093 32 P1140000000071 33 P1140000000173 34 P1140000000175 37 P114000000016 38 P114000000016 38 P1140000000122 40 P1140000000128 41 P11400000000020	P114000000003 P1140000000017 P114000000017 P114000000017 P1140000000017 P1140000000017 P1140000000017 P1140000000012 P1140000000012 P1140000000012 P1140000000002	LHR LHR LHR LHR LHR 1 LHR LHR 1 LHR 1 LHR 3	R201,R202,R203 4 R115,R116,R202,R203 4 R115,R116,R21,R214 5 R22,R24,R25,R83,R84 1 R5ET6 1 R5ET7 1 R5ET6 1 R5ET7 1 R5ET7 1 R5ET7 1 R5ET5 1 R5ET	R115:116,147:148; R222 5,8384; R8ET0; R8ET7; R40:58; R8ET5; R7.27:35.60.82,117:118,180:181,2 R182; R182; R182; R182; R182; R088;R121:122,150:177; R38:40,59,86:87,190:196;	300 1K 1,38K, 1% 1,39K, 1% 1,96K, 1% 3,16K, 1% 3,40K, 1% 3,40K, 1% 4,97K 4,99K, 1% 10K	RES 300, 0402, 5% RES IK (0402, 5% RES IK (0402, 5% RES IT/38K 04002, 1% RES 1768K 0402, 1% RES 3768K 0402, 1% RES 376K 0402, 5% RES 4796K 0402, 5% RES 4796K 0402, 5% RES 4796K 0402, 5% RES 4796K 0402, 5%	R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: ROOM26FA701K38J YAE: RC0402FR-071K38J YAE: RC0402FR-071K98L YAE: 9C0402FR-071K98L YAE: 9C0402TA3301JEPF3 YAE: 9C04021A3301JEPF3 PAN: ERJ-2RKF3401X YAE: 9C04021A4701JEPF3 YAE: 9C04021A4991FKPF3 YAE: 9C04021A4002JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FY331GLF BRN: CR0402FY391GLF BRN: CR0402JE27GLF BRN: CR0402JE332GLF YAE: RC0402JE332GLF YAE: RC0402JE472GLF BRN: CR0402JE472GLF	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: 9C04027A1001JEPF3 YAE: RC0402FR-07H331 YAE: RC0402FR-07H39E1 YAE: 9C0402TA07H39E1 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3	BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1361GLF BRN: CR0402JE272GLF BRN: CR0402JE322GLF VAE: RC0402JE322GLF VAE: RC0402JE72GLF BRN: CR0402JE72GLF BRN: CR0402JE72GLF BRN: CR0402JE72GLF BRN: CR0402JE72GLF BRN: CR0402JE72GLF BRN: CR0402JE72GLF	
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31 P1140000000033 32 P11400000000073 33 P1140000000171 34 P1140000000173 35 P1140000000176 37 P1140000000016 38 P1140000000016 41 P1140000000022 41 P1140000000022 41 P1140000000022 42 P11400000000000000000000000000000000000	P11400000000175 P11400000000175 P11400000000175 P11400000000175 P11400000000175 P11400000000175 P11400000000175 P11400000000175 P11400000000122 P11400000000122 P11400000000125 P114000000000125 P114000000000125 P1140000000000125 P11400000000000000000000000000000000000	LHR LHR 1 LHR 4 LHR 4 LHR 4 LHR 4 LHR 4 LHR 1 LHR 1 LHR 1 LHR 1 LHR 1 LHR LHR 1 LHR	R201,R202,R203 R201,R202,R203 R211,R212,R23,R24 R25,R25,R25,R25,R25 R25,R25,R25,R25,R25,R25,R25,R25,R25,R25,	R115-116,147-148, R222-6,83-84, R82E76, R8ET7, R8ET6, R8ET7, R840-58, R8ET5, R7.27-35.66.82,117-118,180.181,2 R182-20,149, R182-20,149, R06-8,R121-122,150-177; R36-40.59.86.87,190-196; R036-33,1(12), R187-18,188-89.183-186; R8ET2,4.9,11-R2, R8ET1,	300 1K 1,38K,196 1,39K,196 1,96K,196 2,7K 3,16K,196 3,40K,196 3,40K,196 4,7K 4,99K,196 10K 10K 10K 10K 10K 12K,196 12K,196 12K,196 10K 12K,196 10K	RES 300, 0402, 5% RES II K, 0402, 5% RES II K, 0402, 5% RES 178K 0402, 1% RES 178K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 479K 0402, 5% RES 479K 0402, 5% RES 10K 040	R_0402_IPC	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402FR-071K381 YAE: RC0402FR-071K381 YAE: RC0402FR-071K381 YAE: RC0402FR-071K981 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4702JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE103GLF BRN: CR0402FY391GLF BRN: CR0402FY391GLF BRN: CR0402FX391GLF BRN: CR0402JE332GLF SRN: CR0402JE332GLF BRN: CR0402JE332GLF BRN: CR0402JE332GLF BRN: CR0402JE472GLF BRN:	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: 9C04027A1001JEPF3 YAE: RC0402FR-071K38J YAE: RC0402FR-071K38J YAE: RC0402FR-071K38J YAE: 9C0402FR-071K98L YAE: 9C0402FR-071K98L YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3301JEPF3 YAE: 9C0402TA3302TFFP3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4700ZJEPF3	BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX1331GLF BRN: CR0402FX1331GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF BRN: CR0402JE322GLF BRN: CR0402JE322GLF BRN: CR0402JE472GLF BRN: CR0402JE472GLF BRN: CR0402JE472GLF BRN: CR0402JE472GLF BRN: CR0402JE402GLF BRN:	Notes
31 P1140000000033 32 P11400000000033 32 P11400000000013 33 P1140000000003 36 P11400000000003 37 P11400000000000000000000000000000000000	P114000000017 P114000000002 P1140000000017 P114000000017 P114000000017 P1140000000017 P1140000000017 P1140000000012 P1140000000012 P1140000000012 P1140000000012 P1140000000012 P11400000000012 P11400000000012 P114000000000012 P1140000000000012 P11400000000000000000000000000000000000	LHR	R201,R202,R203 4 R115,R116,R147,F148 5 R22,R24,R25,R83,R84 1 R15,R116,R16,R24,R25,R83,R84 1 R5ET6 1 RSET7 1 RSET6 1 RSET6 1 RSET6 1 RSET7 1 RS	R115:116,147:148, R222,58:84, R3225,58:84, R3ET6, RSET7, R49:58, RSET5, R7,27:35:56:82,117:118,180:181,2 R19:120,149, R19:120,149, R06:3,R121:122,150:177; R36:40.59.86:87,190:196; R36:40.59.86:40.86:40.86; R36:40.59.86:40.86; R36:40.86:40.86; R36:40.86:40.86; R36:40.86:40.86; R36:40.86:40.86; R36:40.86:40.86; R36:40.86:	300 1K 1,33K,1196 1,39K,1196 1,39K,1196 1,39K,1196 3,16K,1196 3,31K 3,16K,1196 3,35K 3,40K,1196 3,40K,1196 4,7K 4,59K,1196 10K	RES. 300, 0402, 5% RES IIK 0402, 5% RES IIK 0402, 5% RES IIK 0402, 5% RES IIGH 0402, 1% RES 176K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 12K 0402, 5% RES 12K 0402, 1% RES 376K 0402, 5% RES 376K 0402, 5% RES 376K 0402, 1% RES 376K 0402, 1%	R_0402_IPC	VAE: 9C04021A300RJEPF3 VAE: 9C04021A1001JEPF3 VAE: ROMOGEROTIVESU VAE: ROMOGEROTIVESU VAE: ROMOGEROTIVESU VAE: ROMOGEROTIVESU VAE: 9C0402FR-071K96L VAE: 9C0402FR-071K16L VAE: 9C0402FR-073K16L VAE: 9C0402FR-073K16L VAE: 9C0402TA3301JEPF3 VAE: 9C0402TA3301JEPF3 VAE: 9C0402TA3301JEPF3 VAE: 9C0402TA3301JEPF3 VAE: 9C0402TA3301JEPF3 VAE: 9C0402TA3301JEPF3 VAE: 9C0402TA301JEPF3 VAE: 9C0402TA302TEPF3 VAE: 9C04	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE733TGLF BRN: CR0402JE73GLF BRN: CR0402JE72GLF BRN: CR0402JE332GLF SRN: CR0402JE332GLF BRN: CR0402JE332GLF BRN: CR0402JE472GLF BRN: C	YAE: 9C04021A3007JEPF3 YAE: 9C04021A1001JEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402F8-071K38L YAE: RC0402F8-071K38L YAE: RC0402F8-071K38L YAE: RC0402F8-071K38L YAE: 9C04021A3301JEPF3 YAE: 9C04021A3301JEPF3 YAE: 9C04021A3301JEPF3 YAE: 9C04021A4701JEPF3 YAE: 9C04021A4701JEPF3 YAE: 9C04021A4701JEPF3 YAE: 9C04021A4701JEPF3 YAE: 9C04021A4701JEPF3 YAE: 9C04021A4701JEPF3 YAE: 9C04021A4702JEPF3 YAE: 9C0402A4702JEPF3 YAE: 9C0402A4702JEPF3 YAE: 9C0402A4702JEPF3 YAE: 9C0402A4702JEPF3 YAE: 9C	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX331GLF BRN: CR0402FX331GLF BRN: CR0402JE32GLF BRN: CR0402JE33GLF BRN: CR0	Notes
31 P1140000000033 32 P11400000000033 32 P11400000000013 33 P1140000000016 36 P1140000000016 37 P1140000000016 38 P1140000000016 41 P11400000000126 41 P11400000000126 41 P11400000000016 41 P11400000000016 41 P114000000000000000000000000000000000	P114000000017 P114000000017 P114000000017 P114000000017 P114000000017 P114000000017 P114000000017 P1140000000017 P1140000000017 P1140000000017 P1140000000012 P1140000000012 P1140000000012 P1140000000012 P1140000000001	LHR	R201,R202,R203 4 R115,R116,R147,F148 5 R22,R24,R25,R83,R84 1 R15,R116,R16,R24,R25,R83,R84 1 R5ET6 1 RSET7 1 RSET6 1 RSET6 1 RSET6 1 RSET7 1 RSET6 1 RSET7 1 RSET6 1 RSET7 1 RS	R115:116,147-148; R2226,8384; R3227,83846; RSET7; R8ET7; R8F56; RSET5; R7.27-35,60.82,117.118,180.161,2 R19:20,149; R066,87121.122,150.177; R36-40,59.86.87,190.196; R36-40,59.86.87,190.196; R187,27,35,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET2.4,91.48,188.89,183.186; RSET3.89,183.186;	300 1K 1,33K,196 1,39K,196 1,39K,196 1,39K,196 3,16K,196 3,16K,196 3,35K 3,40K,196 4,7K 4,76K 4,79K 10K 10K 10K 10K 10K 10K 10K 10K 10K 10	RES 300, 0402, 5% RES IK 0402, 5% RES IK 0402, 5% RES IK 0402, 5% RES IRSK 0402, 1% RES 176K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 477K 0402, 5% RES 10K 0402, 5% RES 372K 0402, 1% RES 472K 0402, 1% RES 472K 0402, 1% RES 472K 0402, 1% RES 472K 0402, 1% RES 372K 0402, 1% RES 472K 0402, 1% RES 372K 0402, 1% RES 472K 0402, 1% RES 4	R_0402_IPC	VAE: 9C04021A300RJEPF3 VAE: 9C04021A1001JEPF3 VAE: RC0402FR-071K33 VAE: RC0402FR-071K38 VAE: RC0402FR-071K38 VAE: RC0402FR-071K38 VAE: RC0402FR-071K98 VAE: 9C04021A3301JEPF3 VAE: 9C04021A3302JEPF3 VAE: 9C04021A3302JEPF3 VAE: 9C04021A302JEPF3 VAE: 9C0402A32JEPF3 VAE: 9C0402A32JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE7331GLF BRN: CR0402JE7331GLF BRN: CR0402JE73GLF BRN: CR0402JE332GLF GRN: CR0402JE332GLF GRN: CR0402JE332GLF BRN: CR0402JE473GLF BRN: CR0404DLF BRN: CR	YAE: 9C04021A1001JEPF3 YAE: 9C04021A1001JEPF3 YAE: 9C04021A1001JEPF3 YAE: RC0402F8-071438L YAE: RC0402F8-071438L YAE: RC0402F8-071438L YAE: RC0402F8-071438L YAE: 9C04021A3301JEPF3 YAE: 9C04021A3301JEPF3 YAE: 9C04021A301JEPF3 YAE: 9C04021A100JEPF3 YAE: 9C04021A100J	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402FX331GLF BRN: CR0402FX331GLF BRN: CR0402JE272GLF BRN: CR0402JE322GLF BRN: CR0402JE322GLF BRN: CR0402JE322GLF BRN: CR0402JE32GLF BRN: CR0402JE33GLF BRN: CR0402JE33GLF BRN: CR0402JE3GLF	Notes
31 P1140000000033 32 P11400000000071 33 P1140000000173 34 P1140000000173 35 P1140000000176 37 P114000000016 38 P1140000000176 39 P1140000000176 41 P1140000000122 40 P1140000000022 41 P1140000000022 41 P1140000000022 42 P11400000000000000000000000000000000000	P114000000013 P114000000017 P114000000017 P114000000017 P114000000017 P114000000017 P114000000017 P1140000000017 P1140000000012 P1140000000012 P1140000000012 P1140000000012 P1140000000012 P1140000000002 P1140000000002 P1140000000002 P1140000000000002 P11400000000000000000000000000000000000	LHR	R201,R202,R203 4 R115,R116,R127,R148 5 R22,R24,R25,R83,R94 1 RSETT 1 RSETT 1 RSETT 1 RSETT 1 RSETT 1 RSETS 1 RSETTI 1 RSETTI 1 RSETTI 1 RSETTI 1 PWR. 2 1 PWR. 1	R115:116,147:148; R222,5,83-84; R8ET0; R8ET7; R440:58; RSET5; R7,27:35,60.82,117:118,180:181,2 R182; R192; R192; R192; R192; R194; R194; R195; R36:40,50,86:87,190:196; R36:40,50,86:87,190:196; R195; R197;	300 1K 1,38K,196 1,39K,196 1,96K,196 2,7K 3,16K,196 3,40K,196 3,40K,196 4,7K 4,99K,196 10K	RES 300, 0402, 5% RES II K, 0402, 5% RES II K, 0402, 5% RES 178K 0402, 1% RES 176K 0402, 1% RES 376K 0402, 1% RES 376K 0402, 5% RES 479K 0402, 5% RES 479K 0402, 5% RES 479K 0402, 5% RES 10K 0	R. 0402 JPC R. 040	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: 9C0402R-AT001JEPF3 YAE: RC0402R-AT014SI YAE: RC0402R-AT14SI YAE: RC0402R-AT14SI YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA3001JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4701JEPF3 YAE: 9C0402TA4702JEPF3	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE103GLF BRN: CR0402JE733TGLF BRN: CR0402JE733TGLF BRN: CR0402JE73GLF BRN: CR0402JE32GLF SRN: CR0402JE32GLF BRN: CR0402JE32GLF BRN: CR0402JE472GLF BRN: CR	YAE: 9C04021A300RJEPF3 YAE: 9C04021A1001JEPF3 YAE: 9C0402FR-07H138L YAE: RC0402FR-07H138L YAE: RC0402FR-07H138L YAE: RC0402FR-07H138L YAE: 9C0402FR-07H38L YAE: 9C0402FR-07H148L YAE: 9C0402FR-07H148L YAE: 9C0402FR-07H148L YAE: 9C0402FR-07H148L YAE: 9C0402FR-07H148C	BRN: CR0402JE301GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE102GLF BRN: CR0402JE73GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF BRN: CR0402JE272GLF BRN: CR0402JE332GLF YAE: RC0402JE332GLF SRN: CR0402JE472GLF BRN: CR0402JE473GLF BRN:	Notes

Misc E	lase Board EP#	EPI#	GRN Qty	Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
60	P1030000000004	P10300000000004	LHR ·	4 CR1.CR2.CR3.CR4	CR1:4:	GRN	DIODE_LED_0805_GRN	LED 0805	FAI: QTLP630C-4	AGI: HSMG-C150	FAI: QTLP630C-4	FAI: QTLP610C-4	
61	P10300000000005 P103000000000015	P10300000000005 P10300000000015	LHR :	2 CR5,CR6	CR5:6;	RED BAV70	DIODE_LED_0805_RED DIODE_SIG_SOT23_150MA_BAV70	LED_0805 SOT_23_3	FAI: QTLP630C-2 VIS: BAV70-V	AGI: HSMH-C150 FAI: BAV70NL	FAI: QTLP630C-2 VIS: BAV70-V	FAI: QTLP610C-2 FAI: BAV70NL	
63	P10400000000006	P10400000000006	LHR :	2 FH1,FH2	FH1:2;	10A Holder	FUSE_10A_SMT_HOLDER	154_SERIES	LIF: 154010	NA	LIF: 154010	NA	
64	P10400000000004	NA NA	LHR LHR	3 FH3,FH4,FH5	FH3:5; FH6:7:	5A Holder 8A Holder	FUSE_5A_SMT_HOLDER FUSE_8A_SMT_HOLDER	154_SERIES 154_SERIES	LIF: 154005 LIF: 154008	NA NA	NA NA	NA NA	
66	P11000000000010	P11000000000010	LHR	7 L1,L2,L3,L4,L5,L6,L7	L1:7;	600Ohm 200mA	IND_BEAD_0805_600OHM_200MA	L_0805_IPC	MUR: BLM21B601SPT	TDK: MMZ2012Y601B	MUR: BLM21B601SPT	TDK: MMZ2012Y601B	
67	P11000000000009	P11000000000009	LHR 1:	2 L8,L9,L10,L11,L12,L13, L14,L15,L16,L17,L18,L19	L8:19;	180Ohm 1.5A	IND_BEAD_0603_180OHM_1r5A_25%	L_0603	MUR: BLM18PG181SN1x	NA	MUR: BLM18PG181SN1x	NA	
68	P11000000000003 P119000000000009	P11000000000003 P11900000000009	LHR LHR	2 L20,L21 2 Q1,Q2	L20:21; Q1:2;	1.5uH Si7540DP	IND_1r5UH_7MMX7MM_9A_SMT XSTR_PWR_PNFET_PPKS08_SI7540DP	FDV0630_IHLP	VIS: IHLP-2525CZ-RZ-1R5-M-01	TOK: FDV0630-1R8M=P3	VIS: IHLP-2525CZ-RZ-1R5-M-01	TOK: FDV0630-1R8M=P3	
70	P11600000000000009 P11600000000000000000000000000000000000	P116000000000002	LHR	1 SW1	SW1:	SPST	SWITCH_PUSH_SPST_RA_SMT4	PPAK_SO-8 ITT_KT11B2SAM_T	CAN: KT11B2SAM3-LFS	NA NA	CAN: KT11B2SAM3-LFS	NA NA	
71	P11600000000001	P11600000000001 P11800000000003	LHR :	2 SW2,SW3 2 T1 T2	SW2:3; T1:2;	4POLE EPG4011	SWITCH_DIP_4POLE_0r1_SMT8 XFMR_1:1_SOIC24_GENET_QUAD	90HB_SERIES T_EPG4011	OMR: A6S-4101 PCA: EPG4011.I-LE	GRA: 90HBW04PT	OMR: A6S-4101 PCA: EPG4011JE-LF	GRA: 90HBW04PT	
	P1200000000015	P12000000000016	LHR	1 Y1	Y1;	22.1184MHz	XTAL_22r1184MHZ_SMT6x3_18PF_50P	FX532A	CIT: CS10-22.1184MABJ-UT (Digi-Key:	FOX: 419-22.1184-6	CIT: CS10-22.1184MAGJ-UT	NA FOX: 419-22.1184-7	
		P1200000000014	LHR	1 1 1 2	Y2;	12.00 MHz	XTAL_12r00MHZ_SMT6x3_18PF_50PPM	FX532A	CIT: CS10-12.000MABJ-UT (Digi-Key:	3 FOX: 419-12-56 (FX532 Series)	CIT: CS10-12.000MAGJ-UT	FOX: 419-12-57	
ICs Ba	se Board	EPI#	GPN Otv	Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
			LHR			LTC3736EUF							
76	P11300000000006 P11300000000016	P11300000000006 P11300000000016		1 U2 1 U3	U2; U3;	TPS51100	REG_SW_QFN24_LTC3736 REG_LIN_MSOP10_TPS51100_DDRTERM	QFN_24_UF SOPT50X490-10L	LIN: LTC3736EUF#PBF TI: TPS51100DGQG4	NA NA	LIN: LTC3736EUF#PBF TI: TPS51100DGQG4	NA NA	
77		P11300000000019	LHR LHR	1 U4	U4;	AXH016A0X3 MCP1726	REG_MOD_10PIN_SIP_0r75V+_16A REG_LIN_DEN8_MCP1726_AD.I	AXH016A0X3 DEN_PACK_8	TYC: AXH016A0X3Z MIP: MCP1726-ADJ2E/MF	ERC: PMB451845TWP	TYC: AXH016A0X3Z MIP: MCP1726-AD.I2F/MF	ERC: PMB451845TWP	
79	P10500000000180	P10500000000013	LHR		U9;	CY22381FX_0211	IC CLKGEN SOIC8 0211P22	SOIC127P600-8L	CYP: CY22381FXC 0211P22	NA NA	CYP: CY22381FXI_0211P22	NA NA	
80 81	P10500000000086 P105000000000067	NA P10500000000068	LHR LHR	1 U10 2 U16 U20	U10; U16,20;	CY2292FZX_0211 ICL3225ECA	IC_CLKGEN_TSSOP16_0211P10 IC_RS232_SSOP20_3225_E3-5V	SOP63X600-16 SOP65X780-20	CYP: CY2292FZX_0211P1 INS: ICL3225FCAZ	NA MAX: MAX3225ECAI+	NA INS: ICL3225EIAZ	NA MAX: MAX3225EEAI+	
82	P111000000000005	P111000000000005	HR :	3 U17,U18,U29	U17:18,29;	AT24C04	MEMEE 512MbX8 DBGA8 100KHZ I2C	BGA100-50P2X4-8A	ATM: AT24C04U3-10UU-1.8 ANA: AD7414ARTZ-0	NA	ATM: AT24C04U3-10UU-1.8 ANA: AD7414ARTZ-0	NA	
	P10500000000081 P105000000000021	P10500000000081 P105000000000021	LHR :	1 U19 2 U21,U23	U19; U21,23;	AD7414-0 74CBTLV16800	IC_TEMP_SOT23-6_I2C_AD7414-0 IC_BUSSWPCHG_TVSOP48_7416800	SOT_23_6 SOP40P600-48	TI: SN74CBTLV16800VR	NA IDT: IDT74CBTLV16800PF	TI: SN74CBTLV16800VR	NA IDT: IDT74CBTLV16800PF	
	P10600000000043	P10600000000007 P105000000000008	LHR	1 U25 6 U26,U27,U28,U30,U36,U37	U25; U26:28.30.36:37:	EPM240T PI5A3157	IC_CPLD_TQFP100_EPM240-DES0211 IC_ANSW_ZDFN6_SPDT_XXX3157	TQFP100_A TDFN_ZA-6	ALT: EPM240T100C5N_211P2 PER: PI5A3157ZAEX	NA FAI: NC7SB3157L6X_NL	ALT: EPM240T100I5N PER: PI5A3157ZAEX	NA FAI: NC7SB3157L6X_NL	
87	P10500000000075	P10500000000075	LHR	1 U31	U31;	MIC2774N-29	IC_RSTVM_SOT235_2774_THR2r93V	SOT_23_5	MIC: MIC2774N-29YM5	MAM: MAX6306UK29D3+T	MIC: MIC2774N-29YM5	MAM: MAX6306UK29D3+T	
88	P10500000000023 P10800000000004	NA P10800000000005	HR	1 U32 2 U33,U34	U32; U33:34;	9x877 88E1111	IC_CLKBUF_QFN40_DIFF_10OUT IC_ENETG_96BCC_88E1111	QFN50P600X600-40W2N BCC PACK 96	NICS: ICS97U877XKLF-T MAR: 88E1111-B2-CAA1C000	MOT: MPC96877EP NA	NA MAR: 88E1111-B2-CAA1I000	NA NA	
90	P10800000000004 P105000000000002	P10500000000000000000000000000000000000	LHRG	1 U35	U35;	88E1111 74LVC1G08	IC_AND_SC70_SINGLE_74LVC1G08	BCC_PACK_96 SC70_5	TI: SN74LVC1G08DCKR	FAI: NC7SZ08P5X	TI: SN74LVC1G08DCKR	FAI: NC7SZ08P5X	
Option	1 - 440EPx533 for PPC	C440EPx w/ Security Feat	ure and 533Mi	Iz Core Clock (USB Supported)	<u>+</u>	<u> </u>	<u> </u>	<u>+</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Item I	EP#	EPI# P10700000000016	GRN Qty	Reference Designators 1 U1	MAS90 Reference Designators	Part Value 440FPx/GRx	Description IC_CPU_TE-PBGA680_440EPxS533	PCB Footprint BGA100P34X34-680T	MFG #1 AMC: PPC440EPx-SUA533T	MFG #2 NA	MFGI#1 AMC: PPC440EPx-SUA533T	MFGI #2 NA	Notes
20	P11400000000000	P11400000000000	LHR	1 RO30 (1/2)	RO30 (1/2)	0	RES_0_0402_5%_OPT3P	R_0402_3P_IPC	YAE: 9C04021A0R00JEPF3	BRN: CR0402J/0R1GLF	YAE: 9C04021A0R00JEPF3	BRN: CR0402J/0R1GLF	
18	P10100000000048	P10100000000048 P10400000000003	LHR LHR*	1 C56 1 F12	C56;	220uF 500mA	CAPT_220UF_D7343_10V_10%_L0050 FUSE_500MA_1206_SMT_PTC	CT_7343_IPC EU 1206I	AVX: TPSD227K010R0050	KEM: T494D227K010ATH NA	AVX: TPSD227K010R0050	KEM: T494D227K010ATH NA	Reflow: 245degC, 20 sec max
93	P1040000000003 P10500000000128 P10200000000047	P10500000000128 P10200000000047	LHR LHR	1 U24	U24; P5:6;	500mA GT3250-ABZJ F TH	FUSE_500MA_1206_SMT_PTC IC_USB2r0-PHY_TQFP56_GT3250-ABZ CON_USBB_1X4_F_RA_TH	FU_1206L QFN50P800X800-56W6N 787780_TH	LIF: 1206L050 SMS: GT3250-ABZJ AMP: 292304-1	NA ADA: USB-B-S-RA-RC	LIF: 1206L050 SMS: GT3250-ABZJ AMP: 292304-1	NA NA	
95	P10200000000047 P102000000000045 P115000000000000	P10200000000047	LHR .	1 P7 3 SP1,SP2,SP3	P7;	F TH F TH PGB102ST23WR	CON_USBB_1X4_F_RA_TH CON_USBA_1X4_F_RA_TH	787616_TH	AMP: 292303-1	ADA: USB-A-S-RA-RC	AMP: 292303-1	NA	
96	P115000000000000 P117000000000000	P11500000000000 P117000000000000	LHR :	3 SP1,SP2,SP3 6 VR1,VR2,VR3,VR4,VR5,VR6	SP1:3; VR1:6:	PGB102ST23WR 5.5V 20A	SUP_ESD_SOT23_1KV VAR_5r5V_0603_30A	SOT23_3T VR_0603	LIT: PGB102ST23WR LIF: V5.5MLA0603xxx	NA NA	LIT: PGB102ST23WR LIF: V5.5MLA0603xxx	NA NA	
Option	1 - 440EPx667 for PPC	C440EPx w/ Security Feat	ure and 667Mi	Iz Core Clock (USB Supported)						1963		101	
Item I	P10700000000189	P1070000000189	HR	Reference Designators 1 U1	MAS90 Reference Designators U1;	Part Value 440EPx/GRx	Description IC_CPU_TE-PBGA680_440EPxS667	PCB Footprint BGA100P34X34-680T	MFG #1 AMC: PPC440EPx-SUA667T	MFG #2 NA	MFGI#1 AMC: PPC440EPx-SUA667T	MFGI #2 NA	Notes
20	P114000000000000 P101000000000048	P11400000000000 P10100000000048	LHR	1 RO30 (1/2)	RO30 (1/2) C56:	0 220uF	RES_0_0402_5%_OPT3P CAPT_220UF_D7343_10V_10%_L0050	R_0402_3P_IPC CT_7343_IPC	YAE: 9C04021A0R00JEPF3 AVX: TPSD227K010R0050	BRN: CR0402J/0R1GLF KEM: T494D227K010ATH	YAE: 9C04021A0R00JEPF3 AVX: TPSD227K010R0050	BRN: CR0402J/0R1GLF KEM: T494D227K010ATH	
92	P10400000000003	P10400000000003	LHR LHR*	1 F12	F12;	500mA	FUSE_500MA_1206_SMT_PTC	FU_1206L	LIF: 1206L050	NA	LIF: 1206L050	NA	Reflow: 245degC, 20 sec max
93	P10500000000128	P10500000000128	LHR	1 U24 2 P5 P6	U24; P5:6:	GT3250-ABZJ F TH	IC_USB2r0-PHY_TQFP56_GT3250-ABZ CON_USBB_1X4_F_RA_TH	QFN50P800X800-56W6N 787780 TH	SMS: GT3250-ABZJ AMP: 292304-1	NA ADA: USB-B-S-RA-RC	SMS: GT3250-ABZJ AMP: 292304-1	NA NA	
95	P10200000000047 P10200000000045	P10200000000045	LHR :	1 P7	P7;	F TH	CON_USBA_1X4_F_RA_TH	787616_TH	AMP: 292303-1	ADA: USB-A-S-RA-RC	AMP: 292303-1	NA	
96	P115000000000000 P117000000000000	P11500000000000 P117000000000000	LHR LHR	3 SP1,SP2,SP3 6 VR1,VR2,VR3,VR4,VR5,VR6	SP1:3; VR1:6;	PGB102ST23WR 5.5V 20A	SUP_ESD_SOT23_1KV VAR_5r5V_0603_30A	SOT23_3T VR_0603	LIT: PGB102ST23WR LIF: V5.5MLA0603xxx	NA NA	LIT: PGB102ST23WR LIF: V5.5MLA0603xxx	NA NA	
Option Item	1 - 440GRx533 for PPC	C440GRx w/ Security Fea	ture and 533M	Hz Core Clock (USB Not Supported) Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
91	P10700000000017 P114000000000000	P10700000000017 P114000000000000	HR LHR	1 U1	U1;	440EPx/GRx	IC_CPU_TE-PBGA680_440GRxS533	BGA100P34X34-680T	AMC: PPC440GRx-SUA533T	NA	AMC: PPC440GRx-SUA533T	NA	Notes
20	P11400000000000	P114000000000000	LHR	1 RO30 (2/3) 1 RO13	RO30 (2/3) RO13;	0	RES_0_0402_5%_OPT3P RES_0_0402_5%_OPT	R_0402_3P_IPC R_0402_IPC	YAE: 9C04021A0R00JEPF3 YAE: 9C04021A0R00JEPF3	BRN: CR0402J/0R1GLF BRN: CR0402J/000GLF	YAE: 9C04021A0R00JEPF3 YAE: 9C04021A0R00JEPF3	BRN: CR0402J/0R1GLF BRN: CR0402J/000GLF	
32	P11400000000048	P11400000000048			RO31:32; RO33:35	1K 3.3K	RES_1K_0402_5%_OPT RES_3r3K_0402_5%	R_0402_IPC R_0402_IPC	YAE: 9C04021A1001JEPF3 YAE: 9C04021A3301JEPE3	BRN: CR0402JE102GLF BRN: CR0402JE332GLF	YAE: 9C04021A1001JEPF3 YAE: 9C04021A3301JEPE3	BRN: CR0402JE102GLF BRN: CR0402JE332GLF	
Option	1 - 440GRx667 for PPC	C440GRx w/ Security Fea	ture and 667M	2 RO31,RO32 2 RO33,RO35 Hz Core Clock (USB Not Supported) Reference Designators	RO33,35,		RES_3I3N_U4UZ_5%						
911	P10700000000190	P10/00000000190	GRN Qty	Reference Designators 1 U1	U1;	Part Value 440EPx/GRx	Description IC_CPU_TE-PBGA680_440GRxS667	PCB Footprint BGA100P34X34-680T	MFG #1 AMC: PPC440GRx-SUA667T	MFG #2 NA		MFGI #2 NA	Notes
	P11400000000000 P114000000000000	P11400000000000 P114000000000000	HR LHR LHR	1 RO30 (2/3)	RO30 (2/3) RO13;	0	RES_0_0402_5%_OPT3P RES_0_0402_5%_OPT	R_0402_3P_IPC R_0402_IPC	YAE: 9C04021A0R00JEPF3 YAE: 9C04021A0R00JEPF3	BRN: CR0402J/0R1GLF BRN: CR0402J/000GLF	YAE: 9C04021A0R00JEPF3 YAE: 9C04021A0R00JEPF3	BRN: CR0402J/0R1GLF BRN: CR0402J/000GLF	
32	P11400000000048	P11400000000048	LHR :	2 RO31,RO32	RO31:32;	1K	RES_1K_0402_5%_OPT	R_0402_IPC	YAE: 9C04021A1001JEPF3	BRN: CR0402JE102GLF	YAE: 9C04021A1001JEPF3	BRN: CR0402JE102GLF	
		P11400000000106	LHR	2 RO33,RO35	RO33,35;	3.3K	RES_3r3K_0402_5%	R_0402_IPC	YAE: 9C04021A3301JEPF3	BRN: CR0402JE332GLF	YAE: 9C04021A3301JEPF3	BRN: CR0402JE332GLF	
Option	2 - D for DDR2 SDRA	AM 256MBytes / 333MHz	lonu -	Indiana and and	husaa n.t	D. W.L.	In	Inon security	INFO #4	MFG #2	INCOLUMN TO THE PROPERTY OF TH	MFGI #2	Mater
Item I	EP# P11100000000038	NA	HR Qty	Reference Designators 4 U11,U12,U13,U14	MAS90 Reference Designators U11:14;	Part Value 32Mbx16 DDR2	MEMDDR2_512MbX16_FBGA92_333MHZ	PCB Footprint FBGA80P6X17-92_12MM	MFG #1 MIR: MT47H32M16CC-3	NA	Will require a slower speed	NA	Notes
	3 - 032 for NOR FLASH	H 32MBvtes											
ltem	EP#	EPI#	GRN Qty	Reference Designators	MAS90 Reference Designators	Part Value	Description MEMF_256MbX16_BGA64_MBIT_110NS	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
Option	P11100000000031 3 - 064 for NOR FLASH	P11100000000031 H 64MBytes	HR	1 U15	U15;	16Mbx16 Mirror Bit	MEMF_256MbX16_BGA64_MBIT_110NS	BGA100P8X8-64C	SPA: S29GL256N11FFIR20	NA	SPA: S29GL256N11FFIR20	NA	
Item I	EP#	EPI# P11100000000010	GRN Qty	Reference Designators	MAS90 Reference Designators	Part Value 32Mbx16 Mirror Bit	Description MEMF_512MbX16_BGA64_M-BIT_110N	PCB Footprint BGA100P8X8-64C	MFG #1 SPA: S29GL512N11FFIR20	MFG #2	MFGI#1 SPA: S29GL512N11FFIR20	MFGI #2 NA	Notes
99	100000000010		P. IIX		010,	OEMIDATO WIITUI DIL		50A 100F 0A0-04C	O. A. OZOGLOTZINI IFFIRZU		GI AL GEOGLOTZINI IFFIRZU		
Option Item	4 - A for NAND FLASH	1 32MBytes EPI#	GRN Qtv	Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
100	P11100000000068	P11100000000069	LHR	1 U22	U22;	32Mbx8	MEMF_256MbX8_TSOP48_50NS_NAND	SOPT50X2000-48L	SAG: K9F5608U0B-PCB0000	NA NA	SAG: K9F5608U0B-PIB0000	NA NA	
	5 - N No Pop EBC Bus	s Expansion Connector		<u> </u>									
ltem	EP#	EPi#	GRN Qty	Reference Designators	MAS90 Reference Designators	Part Value	Description	PCB Footprint	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
Option	5 - E for EBC Bus Exp	pansion Connector											
101	5 - E for EBC Bus Exp EP# P102000000000041	P10200000000041	GRN Qty	Reference Designators 1 P12	MAS90 Reference Designators P12;	Part Value .5mm F SMT	CON_SKT_60x2_F_VT_r5MM_SMT	PCB Footprint QSH_60X2	MFG #1 SAM: QSH-060-01-F-D-A-K	MFG #2 NA	MFGI #1 SAM: QSH-060-01-F-D-A-K	MFGI #2 NA	Notes
	6 - P for +/- 12V Power												
		EPI#	GRN Qty	Reference Designators	MAS90 Reference Designators	Part Value 100uF	Description CAPT_100UF_3528_6r3V_10%_LXXXX	PCB Footprint CT_3528_IPC	MFG #1	MFG #2	MFGI#1	MFGI #2	Notes
102	P10100000000041 P104000000000000	P10100000000041 P104000000000001	LHR	Reference Designators 2 C217,C229 2 F8,F9	C217,229; F8:9;	100uF 100ma	FUSE_100MA_1210_SMT	CT_3528_IPC FU_1210	AVX: TPSB107K006R RAY: microSMD010F	KEM: T494B107K006ATH BRN: MF-USMF010	AVX: TPSB107K006R RAY: microSMD010F	KEM: T494B107K006ATH BRN: MF-USMF010	
	P10400000000003	P10400000000000000000000000000000000000	LHR*	2 F10,F11	F10:11;	500mA PTN04050CAZ	FUSE_500MA_1206_SMT_PTC REG_MOD_4PIN_POLA_5V+_12W	FU_1206L PTN04050C	LIF: 1206L050 TI: PTN04050CAZ	NA NA	LIF: 1206L050 TI: PTN04050CAZ	NA NA	Reflow: 245degC, 20 sec max
400		IF 113000000001/	LHK	פטוןו	UO,	r i NU4U5UCAZ	REG_MOD_4PIN_POLA_5V+_12W	PTN04050C PTN04050A	TI: PTN04050CAZ	INA		INA	1
105	P11300000000018	P11300000000018	LHR	1 U6	U6;	PTN04050AAZ	REG_MOD_5PIN_POLA3r3V+_6W			NA	TI: PTN04050AAZ	NA	
105	P11300000000018	P1130000000018 P10100000000091	LHR LHR	1 U6 4 C218,C219,C230,C231	U6; C218:219,230:231;	PTN04050AAZ 47uF, 16V	REG_MOD_5PIN_POLA3r3V+_6W CAPT_47UF_C6032_16V_10%	CT_6032_IPC	NEM: PCT47/16CK	AVX: TAJC476K016R	TI: PTN04050AAZ NEM: PCT47/16CK	NA AVX: TAJC476K016R	