

Ref Des - Notes	Qty	Item Description	Manufacture Name	Manufacture Part Number
EMPTY LOCATIONS  <b>C-Sites:</b> C56,C57  <b>R-Sites:</b> R1,R3,R113,R123  <b>J-Sites:</b> J10,J14,J15  <b>Q-Sites:</b> Q2  <b>M-Sites:</b> MTG1-MTG8  <b>TP-Sites:</b> TP1-TP88		DO NOT STUFF	N/A	N/A
A2	1	PB,EDISON ARDUINO,FAB 4,4,0.0051N	UNLISTED SUPPLIER	H40482-004
C1, C54	2	CAPC,X5R,0603,22.000UF,6.300V,+/- 20%	SAMSUNG ELECTRO-MECHANICS	CL10A226MQ8NRNE
			TAIYO YUDEN,(USA),INC	CE JMK107BJ226MAETD
			MURATA ELEC. NORTH AMERICA	GRM188R60J226MEAOL
			TDK CORPORATION OF AMERICA	C1608X5R0J226MT005E
			MURATA ELEC. NORTH AMERICA	GRM188R60J226MEA0D
C10, C12, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C48, C49, C50, C51, C52, C6, C9	29	CAPC,X5R,0201,0.1UF,10.00V,+/- 10%	MURATA ELEC. NORTH AMERICA	GRM033R61A104KE84E
			TAIYO YUDEN,(USA),INC	RM LMK063BJ104KPEF
			SAMSUNG ELECTRO-MECHANICS CO., LTD	CL03A104KP3NNNC
			ACER PERIPHEPALS INC. (DARFON ELECTRONIC	C0603X5R104KDT
			MURATA ELEC. NORTH AMERICA	GRM033R61A104KE15D
			DARFON ELECTRONICS CORP.	C0603X5R104KDTS
			TDK CORPORATION OF AMERICA	C0603X5R1A104KT00NN
			YAGEO CORP.	CC0201KRX5R6BB104
			MURATA ELEC. NORTH AMERICA	GRM033R60J333KE01D
C4, C53	2	CAPC,X5R,0201,0.033UF,6.3V,+/- 10%	TDK CORPORATION OF AMERICA	C0603X5R0J333KT00NN
			TAIYO YUDEN,(USA),INC	RM JMK063BJ333KPEF
			SAMSUNG ELECTRO-MECHANICS CO., LTD	CL03A333KQ3NNNC

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C11, C13, C46, C5, C8	5	CAPC,X5R,0402,10.00UF,6.3V,+/- 20%	SAMSUNG ELECTRO-MECHANICS	CL05A106MQ5NUNC
			TAIYO YUDEN,(USA),INC	RM JMK105CBJ106MV-F
			TDK CORPORATION OF AMERICA	C1005X5R0J106MT000E
			MURATA ELEC. NORTH AMERICA	GRM155R60J106ME44D
			MURATA ELEC. NORTH AMERICA	GRM155R60J106ME11D
C34, C40, C41, C42, C43, C44, C45	7	CAPC,C0G,0201,100.000PF,25.000V,+/- 5%	MURATA ELEC. NORTH AMERICA	GRM0335C1E101JD01E
			TDK CORPORATION OF AMERICA	C0603C0G1E101JT00NN
			SAMSUNG ELECTRO-MECHANICS CO., LTD	CL03C101JA3ANNC
			TAIYO YUDEN,(USA),INC	RM TMK063CG101JPEF
			TAIYO YUDEN,(USA),INC	RM TMK063CG101JTEF
			MURATA ELEC. NORTH AMERICA	GRM0335C1E101JA01D
			DARFON ELECTRONICS CORP.	C0603NP0101JFTS
C36	1	CAPC,X5R,0603,2.2UF,25.00V,+/- 10%	TDK CORPORATION OF AMERICA	C1608X5R1E225KT000E
			TDK CORPORATION OF AMERICA	C1608X5R1E225KT009E
			TAIYO YUDEN,(USA),INC	CE TMK107BJ225KAETD
			SAMSUNG ELECTRO-MECHANICS CO., LTD	CL10A225KA8NNNC
			MURATA ELEC. NORTH AMERICA	GRM188R61E225KA12D
C47, C55	2	CAPC,X5R,0805,10.00UF,25.00V,+/- 10%	TDK CORPORATION OF AMERICA	C2012X5R1E106KT000N
			TDK CORPORATION OF AMERICA	C2012X5R1E106KT009N
			MURATA ELEC. NORTH AMERICA	GRM21BR61E106KA73L
			TAIYO YUDEN,(USA),INC	CE TMK212BJ106KGETG
			SAMSUNG ELECTRO-MECHANICS CO., LTD	CL21A106KAYNNNE
			TAIYO YUDEN,(USA),INC	CE TMK212BJ106KGET
C3	1	CAPC,X5R,0201,0.1UF,25.00V,+/- 10%	TAIYO YUDEN,(USA),INC	CE TMK212BBJ106KGET
			TDK CORPORATION OF AMERICA	C0603X5R1E104KT00NN
			TDK CORPORATION OF AMERICA	C0603X5R1E104K030BB
R10, R11, R124, R2, R6, R7, R8, R9	8	RES_D,0201,0.00OHM,1/20W,	WALSIN TECHNOLOGY CORP	WR02X000 PAL
			KOA SPEER ELECTRONICS	RK73Z1HTTC
			YAGEO CORP.	RC0201JR-070RL
			KOA SPEER ELECTRONICS	RK73Z1HTQTC

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R100, R102, R104, R105, R106, R107, R109, R110, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R4, R45, R46, R48, R80, R81, R85, R87, R95, R96, R97, R98	45	RES D,0201,10.00 KOHM,5.00%,1/20W,YES	KOA SPEER ELECTRONICS	RK73B1HTTB103J
			WALSIN TECHNOLOGY CORP	WR02X103JTL
			KOA SPEER ELECTRONICS	RK73B1HTTC103J
			WALSIN TECHNOLOGY CORP	WR02X103JAL
			YAGEO CORP.	RC0201JR-0710KL
R5	1	RES_D,0201,1.00KOHM,1.00%,1/20W,	KOA SPEER ELECTRONICS	RK73H1HTQTC1001F
			WALSIN TECHNOLOGY CORP	WR02X1001FTL
			WALSIN TECHNOLOGY CORP	WR02X1001FAL
R114, R38, R86, R88	4	RES D,0402,576.00 OHM,1.00%,1/16W,YES	KOA SPEER ELECTRONICS	RK73H1ETTP5760F
			WALSIN TECHNOLOGY CORP	WR04X5760FTL
			YAGEO CORP.	RC0402FR-07576RL
			VISHAY- DALE ELECTRONICS INC	CRCW0402576RFKED
			VISHAY- DALE ELECTRONICS INC	CRCW0402576RFKEDC
R72, R73	2	RES D,0201,2.00 KOHM,1.00%,1/20W,YES	VISHAY- DALE ELECTRONICS INC	CRCW02012K00FNED
			KOA SPEER ELECTRONICS	RK73H1HTTC2001F
			WALSIN TECHNOLOGY CORP	WR02X2001FTL
			YAGEO CORP.	RC0201FR-072KL
			WALSIN TECHNOLOGY CORP	WR02X2001FAL
R47, R49	2	RES_D,0201,220.00OHM,5.00%,1/20W,	KOA SPEER ELECTRONICS	RK73B1HTQTC221J
			YAGEO CORP.	RC0201JR-07220RL
			WALSIN TECHNOLOGY CORP	WR02X221 JAL
R111, R116, R117, R118, R119, R120, R121, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R89, R90, R91, R92, R93, R94	33	RES_D,0201,47.0KOHM,1.00%,1/20W,	KOA SPEER ELECTRONICS	RK73H1HTTC4702F
			WALSIN TECHNOLOGY CORP	WR02X4702FAL
			YAGEO CORP.	RC0201FR-0747KL
R74, R75, R76, R77, R78, R79	6	RES D,0201,33.2OHM,1.00%,1/20W,YES	YAGEO CORP.	RC0201FR-0733R2L
			KOA SPEER ELECTRONICS	RK73H1HTTC33R2F
			WALSIN TECHNOLOGY CORP	WR02X33R2FAL
R115, R82, R83, R84	4	RES_D,0402,100.00mOHM,1.00%,1/16W,	WALSIN TECHNOLOGY CORP	WW04XR100FTL
			YAGEO CORP.	RL0402FR-130R1L
			YAGEO CORP.	RL0402FR-070R1L

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R112	1	RES_D,0201,10.5kOHM,1.00%,1/20W,	YAGEO CORP.	RC0201FR-0710K5L
			VISHAY - AMERICAS, INC.	CRCW020110K5FKED
			KOA SPEER ELECTRONICS	RK73H1HTQTC1052F
			WALSIN TECHNOLOGY CORP	WR02X1052FAL
R37	1	RES D,0201,100.00 KOHM,5.00%,1/20W,YES	KOA SPEER ELECTRONICS	RK73B1HTTB104J
			WALSIN TECHNOLOGY CORP	WR02X104 JAL
			YAGEO CORP.	RC0201JR-07100KL
			PANASONIC INDUSTRIAL	ERJ-1GEJ104C
R108, R122, R125, R39, R40, R41, R42, R43, R44, R50, R51	11	RES D,0201,4.70 KOHM,5.00%,1/20W,YES	KOA SPEER ELECTRONICS	RK73B1HTTC104J
			KOA SPEER ELECTRONICS	RK73B1HTTC472J
			WALSIN TECHNOLOGY CORP	WR02X472 JAL
			YAGEO CORP.	RC0201JR-074K7L
			ROHM ELECTRONICS	MCR006YZPJ472
			TA-I TECHNOLOGY CO. LTD.	RM02JTN472
CR1, CR8, CR9	3	IC,DS,DIO,SOD123,RM160M-40,SHTKY,	KOA SPEER ELECTRONICS	RK73B1HTQTC472J
			ROHM CO., LTD.	RB160M-40
CR2, CR6, CR7	3	IC,DS,DIO,SMT,DB2W31900L,SHTKY,	PANASONIC	DB2W31900L
DS1, DS2, DS3	3	LED,1005,SM,GRN,V,1.00,RC,1	LITEON TECHNOLOGY CORP.	LTST-C281KGKT
L1, L2	2	INDCT,MTILAYER,1.00uH,1.1A,0805,30.0%,	FDK COPORATION	MIPSZ2012D1R0
Q11, Q3, Q4, Q5, Q6, Q8, Q9	7	IC,DS,FET N,SOT-23,BSS138LT3G	ON SEMICONDUCTOR	BSS138LT3G
			FAIRCHILD SEMICONDUCTOR CORP	BSS138_NL
			ON SEMICONDUCTOR	BSS138LT1G
			DIODES INC/LITEON POWER SEMI	BSS138-7-F
			INFINEON TECH. CORP	BSS138NL6327
			FAIRCHILD SEMICONDUCTOR CORP	BSS138
			INFINEON TECH. CORP	BSS138N E6327
			INFINEON TECH. CORP	BSS138N H6327
			FAIRCHILD SEMICONDUCTOR CORP	BSS138_G
Q10, Q12, Q13, Q14, Q7	5	IC,FDC6331L,LOAD_SWITCH,2.8A,	FAIRCHILD SEMICONDUCTOR CORP	FDC6331L
SW1	1	CONN,SWIT,SLIDE,VT,SPST,2,0.5mA,SMT,	ALPS ELECTRIC CO. LTD	SSAJ110100
SW1UI1, SW1UI2, SW1UI3, SW1UI4, SW1UI5	5	CONN,SWIT,TACTILE,VT,SPST,2,50.0 mA,SMT>	E-SWITCH	TL1015AF160QG
EU1	1	IC,LIN,ANALOGSWITCH,SON,TS3USB22,	TEXAS INSTRUMENTS	TS3USB221EDRCR
J1	1	CONN,PWR,3P,BJ,PLG,RA,2MM,062ST,	SINGATRON	2DC-0005D200
J2	1	CONN,HDR,1X2,PLG,VT,0.1,062ST,KP	WIESON TECHNOLOGIES CO., LTD	G2100C888-227H
J16, J3	2	CONN,I/O,5P,USB,RA,.6MM,SMT,SHIELDED,	TYCO ELECTRONICS	2013499-1
J4	1	CONN_HDR,2X3,PLG,VT,2.54mm,9ST,BK	FCI	67996-406HLF
J5	1	CONN,MISC,8P,MICROSD,PUSH/PULL	MOLEX CONNECTOR CORPORATION	1040310811
J6	1	CONN,I/O,4P,USB,RA,.09,062ST	TYCO ELECTRONICS	292303-6
			FOXCONN ELECTRONICS, INC.	UB11123-5K1-4F

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J7	1	CONN,MISC,70P,BTB SKT, .4MM SMT	HIROSE ELECTRIC (U.S.A.),INC.	DF40C(2.0)-70DS-0.4V(51)
J13, J8, J9	3	CONN,HDR,1 X 3,PLG,VT,0.1,062ST,KP	TYCO ELECTRONICS	1470002-3
			FOXCONN ELECTRONICS, INC.	HB3903U
			WIESON TECHNOLOGIES CO., LTD	2100C888-001
			FOXCONN ELECTRONICS, INC.	HB2903U
			WIESON TECHNOLOGIES CO., LTD	2100C888-001G1
			WIESON TECHNOLOGIES CO., LTD	G2100C888-001H
J1A1	1	CONN HDR,1X6,RCP,VT,2.54mm,9ST,BK	SINGATRON	2211-06-S-01-3.2
J1B1, J2A1	2	CONN HDR,1X8,RCP,VT,2.54mm,9ST,BK	SINGATRON	2211-08-S-01-3.2
J11, J12	2	CONN_HDR,1X5,PLG,VT,2.54mm,9ST,BK	FOXCONN ELECTRONICS INC	HB24051
			FCI-BERG	68000-405HLF
J2B1	1	CONN HDR,1X10,RCP,VT,2.54mm,9ST,BK	SINGATRON	2211-10-S-01-3.2
J13 - pins 2-3	7	CONN,HDR,1 X 2,RCP,VT,0.1,093PF,KPSHR	TYCO ELECTRONICS	390088-1
J9 - pins 1-2				
J8 - pins 1-2				
J11 - pins 1-2				
J11 - pins 3-4				
J12 - pins 1-2				
J12 - pins 3-4				
FB1	1	FER-BEAD,0402,120.0 OHM,1.3 A, ± 25%	MURATA ELEC. NORTH AMERICA	BLM15PD121SN1
U1	1	IC,LIN,QFN,TPS62133,CONTROLR	TEXAS INSTRUMENTS	TPS62133RGTR
U2	1	IC,VLSI,OTHER,FT232,QFN,32	FUTURE TECHNOGY DEVICES INTL	FT232RQ-REEL
U3	1	IC, LIN,VQFPN,ADS7828E,ADC,	TEXAS INSTRUMENTS	ADS7951SBRGER
U10, U12, U14, U18, U19, U20, U21, U23, U24, U26, U27, U28, U29, U30, U31, U32, U33, U4, U6, U8	20	IC,LOG,TRANSCEIVE,CSP,SN74LVC1T45,NI3S,	TEXAS INSTRUMENTS	SN74LVC1T45YZPR
U11, U13, U15, U22, U25, U40, U41, U42, U43, U5, U7, U9	12	IC,LOG,MULTIPLEX,uBGA,742G53,NI,	TEXAS INSTRUMENTS	SN74LVC2G53YZPR
U16, U34	2	IC,LIN,INTFC,QFN,PCAL9555,GPIO,	NXP SEMICONDUCTORS	PCAL9555AHF
U35	1	IC,LOG,TRANSCEIVE,CSP,TXS0206-29,NI3S,	TEXAS INSTRUMENTS	TXS0206-29YFPR
U36	1	IC,LIN,ANALOGSWITCH,DFN,MIC2039,	MICREL INC	MIC2039EYMT
U38	1	IC,LIN,DFN,LTC4067,CONTROLR,	LINEAR TECHNOLOGY	LTC4067EDEPBF
U44	1	IC,LOG,TRANSCEIVE,DFN,74AUP1G125,NI3S,	NXP SEMICONDUCTORS	74AUP1G125GF
U45	1	IC,LIN,QFN,TPS62130,CONTROLR	TEXAS INSTRUMENTS	TPS62130RGTTFO
			TEXAS INSTRUMENTS	TPS62130RGTR
			TEXAS INSTRUMENTS	TPS62130RGTRFO
			TEXAS INSTRUMENTS	TPS62130RGTT
U17, U39	2	IC,LIN,INTFC,QFN,PCAL9535,GPIO,	NXP SEMICONDUCTORS	PCAL9535AHF,128