

DEMOQE Base Board Rev. C Component List

March 9, 2011

Description	Quantity	Mounting Style	Designator	Manufacture Part Number
Components On Top				
2X1 Pin Straight Header, 0.1"	3	0.1" Thru-hole	J10, J19, J24	Singatron: 2201-02-S-02-6.0/3.0
3X1 Pin Straight Header, 0.1"	4	0.1" Thru-hole	J3, J6, J7, J8	Singatron: 2201-03-S-02-6.0/3.0
2X2 Pin Straight Header, 0.1"	7	0.1" Thru-hole	J4, J5, J11, J17, J18, J20, J21	Singatron: 2202-04-S-02-6.0/3.0
2X3 Pin Straight Header, 0.1"	1	0.1" Thru-hole	J16	Singatron: 2202-06-S-02-6.0/3.0
2X4 Pin Straight Header, 0.1"	1	0.1" Thru-hole	J12	Singatron: 2202-08-S-02-6.0/3.0
2X8 Pin Straight Header, 0.1"	5	0.1" Thru-hole	J9, J2 (4 of 8X2)	Singatron: 2202-16-S-02-6.0/3.0
USB Type B Right Angle Connector	1	USB-B	J1000	Singatron: KS001-BNW-L
DB9 Female Right Angle .318 D-Sub	1	DB9F	DB9F	CableWholeSale.com: 3530-14009; Request for RoHS compliant.
Surface Mount LED GREEN	9	LED 1206 0805	PTC4, PTC5, PTE6,PTE7, D1000	Avago: HSMG-C150
Surface Mount LED RED	2	LED 1206 0805	D2, D3	Avago: HSMH-C170
10K Potentiometer	1	0.1" Thru-hole	W1	Bourns: 3352W-1-103LF
0.1 uF 25V (X7R) Ceramic	3	RES 0603	C3, C14, C15	Murata: GRM188R71E104KA01D
Resistor 10.0K OHM 1/10W 5% 0603 SMD	2	RES 0603	R18, R19	Dale: CRCW060310K0JNEA
Linear Voltage Regulator	1	SOT-223	U3	SE8117TALF
MAX3218CAP+	1	SSOP20	U2	Maxim IC: MAX3218CAP+
MMA7660FC	1	DFN10	U4	Freescale MMA7660FC
2.5mm/5.5mm DC Power Jack (with 1mm PCB Pins) Through-hole	1	PJ-102B	P1	CUI: PJ-102B
Slide Power Switch DPDT	1	POWER23 PIN	K6	E-Switch: EG2201
SFM-1440 Piezo Buzzer	1	SFM-1440 BUZZER	B1	CUI: CT-1205H
Light Touch Button, Height=7.0mm	5	Thru-hole	PTA2, PTA3, PTD2, PTD3, RESET	Panasonic: EVQ-PAC07K
0 Ohm 5% 1/10W 0603 SMD	1	RES 0603	Rs	Vishay/Dale: CRCW06030000Z0EA
32.768KHz Surface Mount Crystal	1	CRYSTAL SMT	Y1	Epson: MC405-32.7680K-A0:ROHS
Total componenets mounted on top	53			
Components not mounted on top	BDM, C8, C9, Rf			

2 pin Shunt (Jumper)	1		J3 2&3	Jameco: 22024
	1		J4 3&4	Jameco: 22024
	2		J5 1&2	Jameco: 22024
	1		J6 2&3	Jameco: 22024
	1		J7 2&3	Jameco: 22024
	1		J8 2&3	Jameco: 22024
	8		J9 1&2, 3&4, 5&6, 7&8, 9&10, 11&12, 13&14, 15&16	Jameco: 22024
	1		J10 1&2	Jameco: 22024
	4		J12 1&2, 3&4, 5&6, 7&8	Jameco: 22024
	3		J16 1&2, 3&4, 5&6	Jameco: 22024
	2		J17 1&2, 3&4	Jameco: 22024
	2		J18 1&2, 3&4	Jameco: 22024
	1		J19 1&2	Jameco: 22024
	2		J20 1&2, 3&4	Jameco: 22024
	1		J21 3&4	Jameco: 22024
	1		J24 1&2	Jameco: 22024
Total number of jumpers	32			

Components On Bottom				
22 pF 50V (NPO) Ceramic	2	RES 0603	C1005, C1006	AVX: 06035A220JAT2A
0.01 uF 50V (X7R) Ceramic	1	RES 0603	C1007	AVX: 06035C103KAT2A
0.1 uF 25V (X7R) Ceramic	12	RES 0603	C1, C6, C7, C18, C19, C22, C1000, C1001, C1002, C1003, C1004, C1008	Murata: GRM188R71E104KA01D
Capacitor 0.47uF 25V X7R 10% Ceramic	1	RES 1206 0805	C13	TDK: C2012X7R1E474K; MURATA: GRM21BR71E47C01L
Capacitor 1.0uF 25V X7R 10% Ceramic	3	RES 1206 0805	C10, C11, C12	TDK: C3216X7R1E105K
4.7 uF 16V Tantalum	2	CAP EIA B	C1010, C1012	Vishay/Sprague: 293D475X9016B2TE3; Panasonic: ECS-T1CY475R; AVX: TAJA475K016R
Capacitor 10 uF 16V Tantalum	3	CAP EIA B	C2, C4, C5	293D106X9016B2TE3
22 uF 10v Tantalum 20% Tolerance	2	CAP EIA B	C20, C21	Nichicon: F931A226MBA
100uF 10V Electrolytic 20%	1	Thru-hole 0.1"	C1009	Panasonic: ECA1AM101I
0 Ohm 5% 1/10W 0603 SMD	4	RES 0603	JR1, JR2, JR4, JR5	Vishay/Dale: CRCW06030000Z0EA
33 Ohm 1% 1/4 W Thick Film	2	RES 1206 0805	R1010, R1011	Dale: CRCW080533R0FKEA
Resistor 47 OHM 1/4W Thick Film	2	RES 1206 0805	R1026, R1027	Dale: CRCW120647R0JNEA
510 Ohm 5% 1/10 W	12	RES 0603	R14, R15, R16, R17, R1009, R1012	Dale: CRCW0603511JNEA
Resistor 1.0K Ohm 5% 1/10 W Thick Film	5	RES 0603	R1019, R1022, R1023, R1024, R1025	Dale: CRCW06031K00JNEA
Resistor 1.1K OHM 1/4W 1% 0603 SMD	1	RES 0603	R1021	Dale: CRCW06031K10FKEA
1.5K Ohm 5% 1/10 W	1	RES 0603	R1008	Dale: CRCW0603152JNEA
Resistor 3.3K OHM 1/4W 1% 0603 SMD	6	RES 0603	R1015, R1017, R1018, R1020, R1030, R1032	Dale: CRCW06033K30FKEA
Resistor 4.7K 1/10W 5%	3	RES 0603	R22, R23, R25	Dale: CRCW0603472JNEA
Resistor 10.0K OHM 1/10W 1% 0603 SMD	2	RES 0603	R8, R21	Dale: CRCW060310K0FKEA
Resistor 10.0K OHM 1/10W 5% 0603 SMD	9	RES 0603	R1003, R1006, R1007, R1013, R1014	Dale: CRCW060310K0JNEA
Film	3	RES 0603	R1004, R1005, R1031	Dale: CRCW0603100KJNEA
Film	1	RES 0603	R20	Dale: CRCW060335K7FKEA
1M Ohm 5% 1/10 W	1	RES 0603	R1016	Dale: CRCW0603105JNEA
12 MHz HCM49 18pF Surface Mount Crystal	1	CRYSTAL SMT	X1000	Citizens: HCM49-12.000MABJ-UT
IRLML6402 P-Channel MOSFET	1	SOT-23	U1007	International Rectifiers: IRLML6402PBFTR
National Comparator LMV7219, speed=7ns, SOT23-5	1	SOT23-5	U1002	National: LMV7219M5/NOPB
On Semiconductor Reset Driver 5V	1	SOIC8	U1005	OnSemi: MC34164D-5R2G

UF32 Reference Design for BDM 5V or 3V (MC9S12UF32PUE preprogrammed w/P&E firmware) ROHS LEAD FREE	1	TQFP100	U1006	P&E
TI Dual Tri-State Bus Buffer Gate SN74LVC2G125DCTRE4	3	TI DCT8	U1003, U1008, U1010	TI: SN74LVC2G125DCTRE4
TI Dual Tri-State Bus Buffer Gate SN74LVC2G126DCTRE4	1	TI DCT8	U1009	TI: SN74LVC2G126DCTR
Dual Channel Analog Switch	2	TI DCT8	U1000, U1001	TI: SN74LVC2G66DCTR
Single Channel Analog Switch	1	SOT23-5	U1004	TI: SN74LVC1G66DBVR
Ferrite Bead 1.5A 26 Impedance@100 MHz	3	RES 1206 0805	L1000, L1001, FB1	Steward: MI1206K260R-10;
15 uH Surface Mount Inductor	1	SMT	L2	TDK: NLC453232T-150K-PF
220 uH Surface Mount Inductor	1	SMT	L1	TDK: NLC453232T-221K-PF
28X2 Pass through vertical surface mount header	1	28X2 SMT	J1	Samtec: SSM-128-L-DV-BE-A-K
MMBD6050LT1GOSTR	1	SOT-23	D4	OnSemi: MMBD6050LT1GOSTR
Battery Holder	1	Thru-hole	Battery	BC2AAA
Total Components mounted on bottom:	99			
Components not mounted:	J22, J23, J25, J26, JR3, R3, R4, R1028, R1029, R1033			