

Component Breakdown list of DEMOJM 1/26/2008

Description	Quantity	Mounting Style	Designator	Manufacture Part Number
DEMOJM Rev. D Base Board Component List				
Components On Top				
2X1 Pin Straight Header, 0.1"	7	0.1" Thru-hole	J7, J10, J15, J16, J24, J30, J33	
3X1 Pin Straight Header, 0.1"	9	0.1" Thru-hole	J5, J6, J11, J12, J13, J14, J18, J19, J20	
2X2 Pin Straight Header, 0.1"	6	0.1" Thru-hole	J4, J8, J28, J29, J31, J32	
2X3 Pin Straight Header, 0.1"	1	0.1" Thru-hole	J3	
2X4 Pin Straight Header, 0.1"	2	0.1" Thru-hole	J21, J27	
2X8 Pin Straight Header, 0.1"	5	0.1" Thru-hole	J17, J2 (4 of 8X2)	
USB Type B Right Angle Connector	1	USB-B	J1000	Singatron: KS001-BNW-L
Mini-AB Female Right Angle SMT	1	SMT	J9	
Surface Mount LED GREEN	9	LED 1206 0805	PTC2, PTC5, PTD2, PTE2, PTE3, PTF0, PTF1, PTF5, 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 Ohm 5% 1/10W 0603 SMD	1	RES 0603	Rs	Vishay/Dale: CRCW06030000Z0EA
Resistor 10.0K OHM 1/10W 1% 0603 SMD	2	RES 0603	R18, R19	Dale: CRCW060310K0FKEA
1M Ohm 5% 1/10 W	1	RES 0603	Rf	Dale: CRCW0603105JNEA
22 pF 50V (NPO) Ceramic	2	RES 0603	C8, C9	AVX: 06035A220JAT2A
100uF 10V Electrolytic 20%	2	Thru-hole 0.1"	C22, C1009	Panasonic: ECA1AM101I
AS1117 Adj. Linear Voltage Regulator	1	SOT-223	U3	Alpha: AS1117M3
ADM869LARQZ	1	QSOP16	U2	Analog Devices: ADM869LARQZ
MMA7260Q	1	QFN16	U4	Freescale MMA7260QR2
PJ-102B DC Power Jack 2.5mm/5.5mm	1	Thru-hole	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	PTG0, PTG1, PTG2, PTG3, RESET	Panasonic: EVQ-PAC07K
12 MHz HCM49 18pF SMT Crystal	1	CRYSTAL SMT	Y1	Citizens: HCM49-12.000MABJ-UT
Philips High Speed CAN Transceiver	1	SOIC8	U7	TJA1050T
Total componenets mounted on top	65			
Components not mounted on top	BDM			

Shunts (Jumpers) Installed

	1		J3 3&4	Jameco: 22024
	2		J4 1&2, 3&4	Jameco: 22024
	1		J6 2&3	Jameco: 22024
	1		J7 1&2	Jameco: 22024
	2		J8 1&2, 3&4	Jameco: 22024
	1		J11 1&2	Jameco: 22024
	1		J12 1&2	Jameco: 22024
	1		J13 2&3	Jameco: 22024
	1		J14 2&3	Jameco: 22024
	8		J17 ALL ON	Jameco: 22024
	1		J18 2&3	Jameco: 22024
	1		J19 2&3	Jameco: 22024
	1		J20 2&3	Jameco: 22024
	3		J21 1&2, 3&4, 5&6	Jameco: 22024
	1		J24 1&2	Jameco: 22024
	4		J27 1&2, 3&4, 5&6, 7&8	Jameco: 22024
	2		J28 1&2, 3&4	Jameco: 22024
	2		J29 1&2, 3&4	Jameco: 22024
	1		J30 1&2	Jameco: 22024
	2		J31 1&2 3&4	Jameco: 22024
	2		J32 1&2 3&4	Jameco: 22024
	1		J33 1&2	Jameco: 22024

Total number of jumpers	40			
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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	22	RES 0603	C1, C3, C6, C7, C10, C13, C14, C15, C16, C17, C18, C19, C21, C24, C25, C27, C1000, C1001, C1002, C1003, C1004, C1008	Murata: GRM188R71E104KA01D
0.47 uF 25V (X7R) Ceramic	1	RES 0603	C31	Murata: GRM188R71E474KA01D
4.7 uF 16V Tantalum	3	CAP EIA B	C30, C1010, C1012	Vishay/Sprague: 293D475X9016B2TE3; Panasonic: ECS-T1CY475R; AVX: TAJA475K016R
Capacitor 10 uF 16V Tantalum	5	CAP EIA B	C2, C4, C5, C26, C28	293D106X9016B2TE3

22 uF 10v Tantalum 20% Tolerance	2	CAP EIA B	C20, C23	Nichicon: F931A226MBA
0 Ohm 5% 1/10W 0603 SMD	5	RES 0603	JR1, JR2, JR4, JR5, R1034	Vishay/Dale: CRCW06030000Z0EA
33 Ohm 1% 1/4 W Thick Film	4	RES 1206 0805	R8, R9, R1010, R1011	Dale: CRCW080533R0FKEA
Resistor 47.0 OHM 1/4W Thick Film	2	RES 1206 0805	R1026, R1027	Dale: CRCW120647R0JNEA
120 Ohm 5% 1/10W 0603 SMD	1	RES 0603	R34	Vishay/Dale: CRCW0603121JNEA
510 Ohm 5% 1/10 W	12	RES 0603	R1, R2, R10, R11, R12, R13, R14, R15, R16, R17, R1009, R1012	Dale: CRCW0603511JNEA
Resistor 1.0K Ohm 5% 1/10 W Thick Film	8	RES 0603	R5, R6, R7, 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	2	RES 0603	R32, R1008	Dale: CRCW0603152JNEA
Resistor 3.3K OHM 1/4W 1% 0603 SMD	6	RES 0603	R1015, R1017, R1018, R1020, R1030, R1032	Dale: CRCW06033K30FKEA
Resistor 3.92K OHM 1/4W 1% 0603 SMD	1	RES 0603	R28	Dale: CRCW06033K92FKEA
Resistor 4.7K 1/10W 1%	3	RES 0603	R3, R31, R33	Dale: CRCW0603472FKEA
Resistor 10.0K OHM 1/10W 1% 0603 SMD	14	RES 0603	R18, R19, R22, R23, R24, R27, R29, R30, R1000, R1001, R1002, R1003, R1006, R1007, R1013, R1014	Dale: CRCW060310K0FKEA
15K Ohm 5% 1/10 W	3	RES 0603	R20, R21, R26	Dale: CRCW0603153JNEA
Film	1	RES 0603	R25	Dale: CRCW06034K12FKEA
Film	3	RES 0603	R1004, R1005, R1031	Dale: CRCW0603100KFKEA
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
On Semiconductor Reset Driver 5V	1	SOIC8	U1005	OnSemi: MC34164D-5R2G
UF32 Reference Design for BDM 5V (MC9S12UF32PUE preprogrammed w/P&E firmware) ROHS LEAD FREE	1	TQFP100	U1006	P&E
TI Dual Tri-State Bus Buffer Gate SN74LVC2G125DCTRE4	5	TI DCT8	U5, U6, 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
TI Single Channel Analog Switch	1	SOT-23	U1004	TI: SN74LVC1G66DBV
Ferrite Bead 1.5A 26 Impedance@100 MHz	3	RES 1206 0805	L1000, L1001, FB1	Steward: MI1206K260R-10;
30X2 Pass through vertical SMT header	1	30X2 SMT	J1	Samtec: SSM-130-L-DV-BE-A-K

AS1117 Adj. Linear Voltage Regulator	1	SOT-223	U1	Alpha: AS1117M3
Total Components mounted on bottom:	121			
Components not mounted:	J22, J23, J25, J26, JR3, C11, C12, R4, R1028, R1029, R1033, U1002			

DC9S08JM16 Component List				
Components On Top				
Capacitor 10 uF 16V Tantalum	1	CAP EIA B	C1	293D106X9016B2TE3
0.1 uF 25V (X7R) Ceramic	1	RES 0603	C2	Murata: GRM188R71E104KA01D
MC9S08JM16CGT	1	48QFN	U1	Freescall: MC9S08JM16CGT
Total Components mounted on bottom:	3			
Components On Bottom				
8x2 Pin Female Straight Header, 0.1"	4	0.1" Thru-hole	J2 (4 of 8X2)	
Total Components mounted on bottom:	4			