MSP-EXP430F6137R9

Bill of Material HW-V2.1

Date: 27/09/11

Part	Value	Tol.	Package	Manufacturer	Details	Distributor	Part no.
Capacitors							
C1	n.m.		C0402	Johanson Technology			500R07S2R2BV4T
C2	n.m.		C0402				
C3	2.2pF		C0402	Johanson Technology			500R07S2R2BV4T
C4	100nF	10%	C0402				
C5	1uF	10%	C0603				
C6	10nF	10%	C0402				
C7	33pF	+/-0,25pF	C0402				
C8	33pF	+/-0,25pF	C0402				
C9	22pF	+/-0,25pF	C0402				
C10	22pF	+/-0,25pF	C0402				
C11	1uF	10%	C0603				
C12	100nF	10%	C0402				
C13	100nF	10%	C0402				
C14	1uF	10%	C0603				
C15	100nF	10%	C0402				
C16	100nF	10%	C0402				
C17	100nF	10%	C0402				
C18	1nF	10%	C0402				
C19	n.m.		C0402				
C20	n.m.		C0402				
C21	n.m.		C0402				
C22	100uF	20%	C-POLB/3528				
C23	100nF	10%	C0603				
C24	68pF		C0402				
C25	10uF	20%	C0603				
C26	2pF	+/-0,25pF	C0402				
C27	2pF	+/-0,25pF	C0402				
C28	2pF	+/-0,25pF	C0402				
C29	470nF	10%	C0402				
C30	27pF	+/-0,25pF	C0402				
C31	27pF	+/-0,25pF	C0402				
C32	10uF	10%	C0603				
C33	100nF	10%	C0402				
C34	10uF	20%	C0603				
C35	100nF	10%	C0402				
C36	10uF	20%	C0603				
C37	100nF	10%	C0402				
C38	100nF	10%	C0402				
C39	2pF	+/-0,25pF	C0402				
C40	100nF	10%	C0402				
C41	2pF	+/-0,25pF	C0402				
C42	100nF	10%	C0402				
C43	100nF	10%	C0402				
C44	100nF	10%	C0402				
C45	1.5pF		C0402				
C47	100nF	10%	C0402				
C48	10uF	20%	C0603				
C49	2.2nF	+/-0,25pF	C0402				
C50	1pF	+/-0,25pF	C0402				
C51	1.5pF	+/-0,25pF	C0402				
C52	100pF	10%	C0402				
C53	1.5pF	+/-0,25pF	C0402				
C54	1.5pF	+/-0,25pF	C0402				
C55	6.8pF	+/-0,25pF	C0402				
C56	n.m.		C0402				
Diodes							
D1	1N4148WT		SOD523				
D2	n.m.		SOD523		(PESD5V0U1UB)		
Inductors							
L1	BLM15HG102SN1D		L0402	Murata	Ferrit, SMT, 250mA		BLM15HG102SN1D
L2	BLM15AX700SN1		L0402	Murata	Ferrit, SMT, 780mA		BLM15AX700SN1
L4	12nH	5%	L0402	Johanson Technology			L-07W12NJV4S
L5	18nH	5%	L0402	Johanson Technology			L-07W18NJV4S
L6	15nH	5%	L0402	Johanson Technology			L-07W15NJV4S
L7	2,2nH	+/-0,2nH	L0402	Johanson Technology			L-07W2N2JV4S
L8	15nH	5%	L0402	Johanson Technology			L-07W15NJV4S
L9	12nH	5%	L0402	Johanson Technology			L-07W12NJV4S
L10	18nH	5%	L0402	Johanson Technology			L-07W18NJV4S
L11	15nH		L0402	Johanson Technology			L-07C15NJV6T / L-07W15NJV6T
Resistors							
R1	n.m.	1%	R0402				
R2	n.m.	1%	R0402				
R3	470R	1%	R0402				
R4	750R	1%	R0402				
R5	47kR	1%	R0402				
R6	100R	1%	R0402				
R7	100R	1%	R0402				
R8	47kR	1%	R0402				
R9	47kR	1%	R0402				
R10	100R	1%	R0402				
R11	100R	1%	R0402				
R12	33kR	1%	R0402				
R13	33R	1%	R0402				
R14	33R	1%	R0402				
R15	1.5kR	1%	R0402				
R16	6.8kR	1%	R0402				
R17	3.3kR	1%	R0402				
R18	1.5kR	1%	R0402				

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AMBER WIRELESS

Part	Value	Tol.	Package	Manufacturer	Details	Distributor	Part no.
R19	1.5kR	1%	R0402				
R20	100R	1%	R0402				
R21	15kR	1%	R0402				
R22	47kR	1%	R0402				
R23	47kR	1%	R0402				
R24	3.3kR	1%	R0402				
R25	3.3kR	1%	R0402				
R26	100kR	1%	R0402				
R27	100kR	1%	R0402				
R28	33kR	1%	R0402				
R29	10kR	1%	R0402				
R30	47kR	1%	R0402				
R31	100R	1%	R0402				
R32	270R	1%	R0402				
R33	56kR	1%	R0402				
R34	0R	1%	R0402				
R35	56kR	1%	R0402				
R36	47kR	1%	R0402				
R37	0R	1%	R0402				
IC							
IC1	CC430F6137IRGC		S-PQFP-N64	Texas Inst.			CC430F6137
IC2	TUSB3410VF		VF32	Texas Inst.			TUSB3410VF
IC3	AT24C12810-TU		TSSOP8	Atmel			AT24C12810-TU
IC4	TPS77301DGK		MSO8	Texas Inst.			TPS77301DGK
IC5	TPD2E001DRL		SOT533-5	Texas Inst.			TPD2E001DRL
IC6	SN74CBTLV3384DBQR		24-SSOP	Texas Inst.			SN74CBTLV3384
IC7	SFH5711		SFH5711	Osram			SFH5711
IC8	MSP430F1612IPM		PM/PAG64	Texas Inst.			MSP430F16x
Miscellaneous							
SW1	JS203011CQN		JS203011CQN	C&K Components			JS203011CQN
SW2	J202011CQN		JS202011CQN	C&K Components			JS203011CQN
SW3	J202011CQN		JS202011CQN	C&K Components			JS203011CQN
SW4	J202011CQN		JS202011CQN	C&K Components			JS203011CQN
SW_D	FSM2JSMA		B3FS-1002P	Omron			B3FS-1002P
SW_L	FSM2JSMA		B3FS-1002P	Omron			B3FS-1002P
SW_R	FSM2JSMA		B3FS-1002P	Omron			B3FS-1002P
SW_RES	FSM2JSMA		B3FS-1002P	Omron			B3FS-1002P
SW_U	FSM2JSMA		B3FS-1002P	Omron			B3FS-1002P
ANT1	0920AT50A080			Johanson Technology	868/915MHz		0920AT50A080
ANT2	n.m.			Johanson Technology	433MHz		0433AT62A0020
BAT1	1028_KEYSTONE			Keystone			1028
BAT2	1028_KEYSTONE			Keystone			1028
LCD1	FH-1138H			Texas Inst.			FH-1138H
LED1	APT1608QBC/D(blue)		LED0603	Kingbright	blue		APT1608QBC/D
LED2	APT1608MGC(green)		LED0603	Kingbright	green		APT1608MGC
LED3	APT1608SYCK(yellow)		LED0603	Kingbright	yellow		APT1608SYCK
LED4	APT1608SRCPRV(red)		LED0603	Kingbright	red		APT1608SRCPRV
Q1	FT10A-12,0/16-30-30/27		5032-4PIN	Coftech			12MHz, 16pF, 30ppm
Q2	CTA531-26.000-16-10/10/A		NX5032	Compotek	hf crystal		CTA531-26.000-16-10/10/A
Q3	CC7V-T1A_32,768kHz_12,5pF	+/-20ppm	3216	Micro Crystal	watch crystal		CC7V-T1A_32,768kHz_12,5pF
T1	SI2323DS		SOT23-3	Vishay	P-Channel 20-V MOSFET		
T2	SI2323DS		SOT23-3	Vishay	P-Channel 20-V MOSFET		
P1	n.m.		1X16				provided separately by EMS
P2	n.m.		1X16				provided separately by EMS
P3	n.m.		1X16				provided separately by EMS
P4	n.m.		1X3				provided separately by EMS
P5	n.m.		1X3				provided separately by EMS
P6	PINHD-1X3		1X3		or identical in construction	MPE Garry	0871-1-003-0-T-xso-1260
P7	PINHD-1X3		1X3		or identical in construction	MPE Garry	0871-1-003-0-T-xso-1260
P8	PINHD-1X2		1X2		or identical in construction	MPE Garry	0871-1-002-0-T-xso-1260
P9	PINHD-1X2		1X2		or identical in construction	MPE Garry	0871-1-002-0-T-xso-1260
P10	PINHD-1X2		1X2		or identical in construction	MPE Garry	0871-1-002-0-T-xso-1260
P11	PINHD-1X3		1X3		or identical in construction	MPE Garry	0871-1-003-0-T-xso-1260
P12	PINHD-1X2		1X2		or identical in construction	MPE Garry	0871-1-002-0-T-xso-1260
P13	PINHD-2X4		2X4		or identical in construction	MPE Garry	0871-2-004-0-T-xso-1260
P14	PINHD-1X2		1X2		or identical in construction	MPE Garry	0871-1-002-0-T-xso-1260
CON1	n.m.		BU-SMA-V		SMA Female Connector		
CON2	USB-MINI_2486_01		USB-MINI_2486_01	LUMBERG			2486 01
CON3	NEB21R		DC_BUCHSE_2,1MM	LUMBERG			NEB 21 R
CON4	TFM-110-02-S-D-A-K		10X2_SAMTEC_M	SAMTEC			TFM-110-02-S-D-A-K
CON5	TFM-110-02-S-D-A-K		10X2_SAMTEC_M	SAMTEC			TFM-110-02-S-D-A-K
CON6	n.m.		STL_31-06 SGU	MPE			STL_31-06 SGU
PCB							
			1,283 mm x100mm x 120mm,		FR4, TG150, see CC-EXP-4306137RF9-HW-V1-PCB.pdf		