















Bill of Materials WREN Mk 3.5

Source Data From: Ranging Mote.PrjPcb Project: Ranging Mote.PrjPcb

Variant: None

 Creation Date:
 3/19/2013
 5:27:49 PM

 Print Date:
 41352
 41352.72769

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Footprint	Comment	LibRef	Designator	Description	Quantity
ANT_CIRC_U	Circular PCB	Circular PCB	Ant1		1
P1 2450BL15B1 00-0805	Ant 2450BL15B100 F	Ant 2450BL15B100 F	Bal1	BALUN 2.4GHZ WIFI/BLUETOOTH	1
00 0000		GRM188R71H2 22KA01D	C1	CAP CER 2200PF 50V 10% X7R 0603	1
1608[0603] CAP	GRM188R60J10 6ME47D		C2, C3, C25	CAP CER 10UF 6.3V 20% X5R 0603	3
1608[0603] CAP	GRM188R61E1 05KA12D	GRM188R61E1 05KA12D	C4, C5, C15, C17, C18, C19, C22	CAP CER 1UF 25V 10% X5R 0603	7
CAPC1608X0 9N (0603)	12pF	251R14S120GV 4T	C6, C7	CAP CER 12PF 250V 2% NP0 0603	2
1608[0603] CAP	04KA01D	GRM188R71E1 04KA01D	C8, C14, C16, C20, C21, C24, C26, C27, C28, C29	CAP CER 0.1UF 25V 10% X7R 0603	10
CAPC1608X0 9N (0603)	4T	251R14S220GV 4T	C9, C13	CAP CER 22PF 250V 2% NP0 0603	2
1608[0603] CAP	R5CZ01D	R5CZ01D	C10	CAP CER 1.5PF 50V NP0 0603	1
1608[0603] CAP	GRM1885C1H2 21JA01D	GRM1885C1H2 21JA01D	C12	CAP CER 220PF 50V 5% NP0 0603	1
1608[0603] CAP	4KA01D	4KA01D	C23	CAP CER 0.47UF 6.3V 10% X5R 0603	1
1608[0603] CAP	30JA01D	GRM1885C1H3 30JA01D	C30	CAP CER 33PF 50V 5% NP0 0603	1
1608[0603] CAP	GRM1885C1H2 01JA01D	GRM1885C1H2 01JA01D	C31	CAP CER 200PF 50V 5% NP0 0603	1
HSMF-C113 ST60-10P	HSMF-C113 ST60-10P	HSMF-C113 ST60-10P	D1 J1	Standard LED - SMD RGB Tri-Color CONN RECEPT 10POS RT ANG SMD	1
53398-0271	0533980271	0533980271	J2	CONN RECEPT 10FOS RT ANG SMID CONN HEADER 2POS 1.25MM VERT SMD	1
INDC2520X19	NLFV25T-470K-	NLFV25T-470K-	L1	INDUCTOR SHIELD 47UH 10% 252018	1
1608[0603] RES		MMZ1608R300A	L2	FERRITE CHIP BEAD 30 OHM SMD	1
1608[0603]	MMZ1608R300A	MMZ1608R300A	R1, R2, R3	FERRITE CHIP BEAD 30 OHM SMD	3
1608[0603] RES	MCR03ERTF10 04	MCR03ERTF10	R4, R7, R8	RES 1.00M OHM 1/10W 1% 0603 SMD	3
1608[0603] RES	MCR03ERTF10 02	MCR03ERTF10 02	R5	RES 10.0K OHM 1/10W 1% 0603 SMD	1
1608[0603] RES		MCR03EZPJ104	R6, R16	RES 100K OHM 1/10W 5% 0603 SMD	2
1608[0603] RES	KTR03EZPJ205	KTR03EZPJ205	R9	RES 2.0M OHM 1/10W 5% 0603 SMD	1
	MCR03EZPJ201	MCR03EZPJ201	R10, R12	RES 200 OHM 1/10W 5% 0603 SMD	2
1608[0603] RES	MCR03ERTF33 00	MCR03ERTF33	R11	RES 330 OHM 1/10W 1% 0603 SMD	1
1608[0603] RES	MCR03ERTJ473	MCR03ERTJ473	R13	RES 47K OHM 1/10W 5% 0603 SMD	1
1608[0603] RES	MCR03EZPFX4 993	MCR03EZPFX4 993	R14	RES 499K OHM 1/10W 1% 0603 SMD	1
1608[0603] RES	MCR03EZPJ202	MCR03EZPJ202	R15	RES 2.0K OHM 1/10W 5% 0603 SMD	1
1608[0603] CAP	L-14C1N8SV4T	L-14C1N8SV4T	R17	CER INDUCTOR 1.8NH 0603	1
1608[0603] RES	MCR03EZPFX4 7R0	MCR03EZPFX4 7R0	R18	RES 47.0 OHM 1/10W 1% 0603 SMD	1
S-PVQFN- N20		BQ25010RHLR	U1	IC DC/DC CONV/CHRGR ADJ 20-QFN	1
32QN2	AT86RF233-ZU	AT86RF233-ZU	U2	RF Transceiver 2.4GHz ZigBee Transceiver	1
Atmel/AT45D B321D	AT45DB321D- MU	AT45DB321D- MU	U3	ATMEL - AT45DB321D-MU - IC, FLASH, 32MB, DFN-8	1
S-PVQFN- N48	MSP430F5342	MSP430F5342	U4	Mixed Signal Microcontroller	1
LIS331DL NXP/PCF212 7A SOT163-1	LIS331DLTR NXP/PCF2127A	LIS331DLTR NXP/PCF2127A	U5 U6	IC ACCELEROMETER 3AXIS 16-LGA Integrated RTC, TCXO and quartz crystal	1
32X25MMCR YSTAL	ECS-160-20-33- DU-TR	ECS-160-20-33- DU-TR	X1	CRYSTAL 16.000 MHZ 20PF SMD	1
	DO-IK			l	62
Approved		Notes			
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