



ADVANCED COMMUNICATIONS & SENSING

BOM SM1212 2layers 434MHz			BOM # V1a
07.04.2009			SCH # V1a
Sle	Preliminary		PCB # E106V01a

RefDes	MPN	Package	Value	Qty	Description	Manufacturer
U1	SX1212I084TRT	TQFN-32	SX1212	1	RF transceiver IC	Semtech
U2	TBD	SMT 3x3	433.92 MHz	1	SAW Bandpass Filter 433.92 MHz	TBD
Q1	SX-5032 12.8000MHz	SMD 5.0x3.2	12.8MHz	1	Crystal 12.8MHz CL=15pF	Siward
R1		402	0R	1	Resistor (+/-1%), CRG402	
R2		402	6.8k	1	Resistor (+/-1%), CRG402	
C1		402	1uF	1	Capacitor X5R (+/-15%)	
C2		402	100nF	1	Capacitor X7R (+/-10%)	
C3		402	100nF	1	Capacitor X7R (+/-10%)	
C4		402	1nF	1	Capacitor X7R (+/-10%)	
C5		402	100nF	1	Capacitor X7R (+/-10%)	
C6		402	10nF	1	Capacitor X7R (+/-10%)	
C7		402	680pF	1	Capacitor X7R (+/-10%)	
C8		402	NC	0		
C9		402	10pF	1	Capacitor NPO (+/-5%)	
C10		402	6.8pF	1	Capacitor NPO (+/-5%)	
C11		402	47pF	1	Capacitor NPO (+/-5%)	
C12		402	47pF	1	Capacitor NPO (+/-5%)	
C13		603	10uF	1	Capacitor X5R (+/-15%)	
L4	LQG15HN27NJ02	402	27nH	1	Multilayer chip inductor (+/-5%)	Murata
L3	LQG15HN18NJ02	402	18nH	1	Multilayer chip inductor (+/-5%)	Murata
L1	LQW15AN19NG00	402	19nH	1	Air core wirewound inductor (+/-2%)	Murata
L2	LQW15AN19NG00	402	19nH	1	Air core wirewound inductor (+/-2%)	Murata
R869		402	NC	0		
R915		402	NC	0		
R950		402	NC	0		
K1		2 pins	2.54mm	1	Straight Male connector+jumper	
RF_IO		SMA	50 Ohms	1	SMA Straight Jack Receptacle for PCB mount	
POD1		20 pins	2.54mm	1	Straight, Dual Row Male connector, double side	

RoHS COMPLIANT