

			BOM SM1231E433A			BOM # V2b
						SCH # e133V01b
21.06.2010			EMr	Version e133V01b - 433MHz		PCB # e133V01b
RefDes	MPN	Geom	Value	Qty	Description	Manufacturer
IC						
U1	SX1231	VQFN24	SX1231	1	SX1231 Low-Power UHF Integrated Transceiver	Semtech
Resistors						
R8	CRCW040210K0FKED	0402	10k	1	Thick Film Resistor ±1%, 1/16W	Vishay/Dale
R15	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
R434	CRCW04020000Z0ED	0402	0R	1	Thick Film Resistor ±5%, 1/16W	Vishay/Dale
Capacitors						
C1	GRM188R60J106ME47	0603	10µF	1	Multilayer ceramic capacitors X5R ±20%, 6.3V	Murata
C2	GRM1555C1H8R2DZ01	0402	8.2pF	1	Multilayer ceramic capacitors C0G ±0.5pF, 50V	Murata
C4	GRM1555C1H150JZ01D	0402	15pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C5	GRM1555C1H2R7CZ01D	0402	2.7pF	1	Multilayer ceramic capacitors C0G ±0.25pF, 50V	Murata
C6	GRM1555C1H330JZ01D	0402	33pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C7	GRM1555C1H180JZ01D	0402	18pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C8	GRM155R71E103KA01D	0402	10nF	1	Multilayer ceramic capacitors X7R ±10%, 25V	Murata
C10	GRM155R71C104KA88	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C11	GRM155R71C104KA88	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C12	GRM155R71C104KA88	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C13	GRM1555C1H150JZ01D	0402	15pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C14	GRM1555C1H180JZ01D	0402	18pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C15	GRM155R71C104KA88	0402	100nF	1	Multilayer ceramic capacitors X7R ±10%, 16V	Murata
C16	GRM1555C1H680JZ01D	0402	68pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C17	GRM1555C1H150JZ01D	0402	15pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C18	GRM1555C1H220JZ01D	0402	22pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C19	GRM1555C1H2R7CZ01D	0402	2.7pF	1	Multilayer ceramic capacitors C0G ±0.25pF, 50V	Murata
C20	GRM1555C1H150JZ01D	0402	15pF	1	Multilayer ceramic capacitors C0G ±5%, 50V	Murata
C22	GRM1555C1H8R2DZ01	0402	8.2pF	1	Multilayer ceramic capacitors C0G ±0.5pF, 50V	Murata
Inductors						
L1	LQW15AN15NJ00D	0402	15nH	1	Wirewound Inductor ±5%	Murata
L2	LQW15AN12NJ00D	0402	12nH	1	Wirewound Inductor ±5%	Murata
L3	LQW15AN22NG00D	0402	22nH	1	Wirewound Inductor ±5%	Murata
L4	LQW15AN1N5C00D	0402	1.5nH	1	Wirewound Inductor ±0.2nH	Murata
L5	LQW15AN10NJ00D	0402	10nH	1	Wirewound Inductor ±5%	Murata
L6	LQW15AN33NJ00D	0402	33nH	1	Wirewound Inductor ±5%	Murata
L7	LQW15AN12NJ00D	0402	12nH	1	Wirewound Inductor ±5%	Murata
L8	LQW15AN10NJ00D	0402	10nH	1	Wirewound Inductor ±5%	Murata
Crystal						
Q1	NX2520SA-32.000000MHZ	nx2520sa	32.000MHz	1	Surface mount type crystal units, ±10ppm, Cload=10pF	NDK
Connectors (or P/N equivalent)						
J1	142-0701-201	SMA Straight	50 Ohms	1	SMA Straight jack receptacle for PCB mount	Emerson Network Power
J2	142-0701-201	SMA Straight	50 Ohms	1	SMA Straight jack receptacle for PCB mount	Emerson Network Power
POD_IN1	929665-08-36-I	HDR2X10	2.54mm	1	Through hole dual row male connector, double side	3M
P1	826629-2	bridge 2p 2.54mm	2.54mm	1	Through hole vertical header single row - 2 positions	Tyco Electronics