

Table1. LNA MATCHING NETWORK

Ref. Des.	Oper. Band				Units
	315 MHz	433 MHz	868 MHz	915 MHz	
C7	330	180	39	33	pF
C12	15	8.2	2.7	1.5	pF
C13	15	8.2	2.7	1.8	pF
L4	27	22	15	12	nH

Table2. PA MATCHING NETWORK

Ref. Des.	Oper. Band				Units
	315 MHz	433 MHz	868 MHz	915 MHz	
C14	390	270	56	47	pF
C22	7.5	6.8	3.0	2.7	pF
C21	390	270	43	43	pF
C25	390	270	39	33	pF
C26	390	270	39	33	pF
L10	75	39	15	15	nH
L11	560	470	330	270	nH

Table3. LOOP FILTER COMPONENTS - S&H CAPACITOR
XTAL SWITCH CAPACITORS - POST DETECTION FILTER

Function	Ref. Des.	Oper. Band				Units
		315 MHz	433 MHz	868 MHz	915 MHz	
Loop Filter	C36	120	120	120	120	pF
	C34	5600	5600	5600	5600	pF
	C33	75	75	75	75	pF
	R7	15 k	15 k	15 k	15 k	Ohms
XTAL SW Capacitors	R10	7.5 k	7.5 k	7.5 k	7.5 k	Ohms
	C29	27	27	27	27	pF
S&H Capacitor	C28	5.6	9.1	20	22	pF
	C19	3300	3300	3300	3300	pF
Post Detection Capacitor	C8	18	18	18	18	pF

Notes:

1. FSK Modulation - Frequency Deviation = +/- 50kHz
2. Data Rate = 19.2kbps Manchester or 38.4kbps NRZ
3. PLL Reference Frequency = 409.6kHz
4. PLL Charge-Pump Current, I_{cp} = 0.5mA
5. Receiver with 7-bit Training Sequence and TWO = 0 (E<12>=0)
6. R2 is optional resistor of 100 Ohms - may be required for operating frequencies of 315MHz band and 433MHz band

Table4. Optional LowPass Filter

Ref. Des.	Oper. Band				Units
	315 MHz	433 MHz	868 MHz	915 MHz	
C15	9.1	7.5	3.6	3.3	pF
C16	18	15	7.5	6.8	pF
C17	9.1	7.5	3.6	3.3	pF
L6	22	18	9.1	8.2	nH
L7	22	18	9.1	8.2	nH

