



*Table 2: PA MATCHING NETWORK

Oper. Band	Components Values				
	L1 (nH)	L2 (nH)	C1 (pF)	C3 (pF)	C5 (pF)
315MHz	560	75	390	5.1	390
433MHz	470	43	270	4.7	270
868MHz	330	18	43	1.5	39
915MHz	270	15	43	1.5	33

*Table 3: LOOP FILTER

Oper. Band	Components Values					Test Conditions
	C12 (pF)	C13 (pF)	C15 (pF)	R2 (Ohms)	R3 (Ohms)	
315MHz	5600	120	75	15k	7.5k	Icp = <u>0.5</u> mA Ref. Freq = <u>409.6</u> kHz Bit Rate = <u>19.2</u> kHz
433MHz	5600	120	75	15k	7.5k	
868MHz	5600	120	75	15k	7.5k	
915MHz	5600	120	75	15k	7.5k	

*Table 4: SWITCHING CAPACITORS

Oper. Band	Components Values		Test Conditions
	C6 (pF)	C7 (pF)	
315MHz	27	5.6	XTAL: Crystek - 19.6608 MHz P/N: 017119 Freq. Dev. = <u>100</u> kHz (Peak-to-Peak)
433MHz	27	9.1	
868MHz	27	20	
915MHz	27	22	

*** The resistor R1 is optional resistor of about 100 Ohms and may be needed for operating frequencies at 433MHz and 315MHz

				TEXAS INSTRUMENTS INCORPORATED			
APPROVALS		DATE		ELECTRONIC SCHEMATIC DIAGRAM, TRF4903 REFERENCE EVM - FSK			
DRAWN KHANH NGUYEN		07/15/2003					
ENGINEER KHANH NGUYEN		07/15/2003		SIZE	DWG. NO.		REV.
CHECKED BY (Checked By)		07/15/2003		C		TRF4903 R1.0	
SCALE: NONE		Trf4903 FSK EVM revR10.sch Tue Mar 01, 2005 16:05:54		SHEET		1 OF 1	