

TX112-1 Evaluation Test Board Revised: Wednesday, December 13, 2006  
TX112-1a.DSN Revision: B

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San Jose CA 95131  
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Micrel Semiconductor

Bill Of Materials December 13,2006 11:23:14 Page1

Item	Quantity	Reference	Part\Manufacture, Footprint
1	1	C1	10uF 6.3V 0603
2	1	C2	100pF 50V 0603
*3	1	C5	22pF 50V (10pF 50V) 0603
4	8	R4	NP
		R6	NP
		R1	NP
		C6	NP
		C8	NP
		C11	NP
		C12	NP
		C15	NP
*5	1	C7	3.9pF (4.7pF) 0603
6	1	C10	0.1uF 50V 0603
7			
8	2	C14	18 pF 0603
		C13	18 pF 0603
9			
10			
11			
12	2	J1	CON3 BLKCON.100/VH/TM1SQS/W.100/3
		J2	CON3 BLKCON.100/VH/TM1SQS/W.100/3
*13	1	L1	680nH (470nH) 0805, Coilcraft, CS802 Series
*14	1	L4	82 nH (150 nH) 0805, Coilcraft, CS805 Series
15	1	L5	ANTENNA ANTENNA_LOOP, Part of PCB
16			
17	1	R2	100kohm 0603
18	6	R3	0 OHMS 0603
		R5	0 OHMS 0603
		R7	0 Ohms 0603
		R8	0 OHMS 0603
		JPR1	0 OHMS 0603
		JPR2	0 OHMS 0603
19	1	U1	MICRF112YMM10 Micrel
20	1	Y1	13.560MHz (9.84375MHz) CRYSTAL/200/TH/SMD, HIB or Abracon

Values In Parenthesis are for 315MHz operation

Suggested Supplier

Vishay for Capacitor and Resistors, Vishay.com, +/-5%

Coilcraft, Inductors, 0805 and 0603 CS Series

Murata for Capacitors +/- 5% Murata.com

Abracon for Crystals, ABL5 Series, Abracon.com

Holsonic for Crystals, SA Series, www.hib.com.br

**\*L1, C5, L4 and C7 are TBD  
To Be Determined**