

REALTEK RTL8139C(L)+ Demo Board(Cardbus PC LAN Card) B.O.M. List

Component	Reference	Quantity
RTL8139C(L)+	U3	1
9356	U1	1
25.000MHz Oscillator or 25.000MHz Crystal	X1(Frequency stability: $\pm 0.0025\%$, @25°C) or Y1*	1
J-LAN	U7	1
Pulse PE69012		
or Delta LF8410	U6	1
0(5%, 1/16W)	R10, R23, RC	3
50(5%, 1/16W)	R11, R12, R21, R22	4
75(5%, 1/16W)	R13, R14, R15, R16	4
510(5%, 1/16W)	R1, R2, R108	3
1K(5%, 1/16W)	R4	1
1.6K(5%, 1/16W)	R107	1
1.69K(5%, 1/16W)	R6	1
10K(5%, 1/16W)	R8, R102, R103, R104, R106	5
0.1uF(10%, 50V)	C1, C2, C3, C4, C5, C6, C10, C11, C16, C105, C106	
	BC2, DC1, DC2, DC3, DC4, DC5, DC6, DC7, DC8, DC9, DC10	22
0.01uF (10%, 3KV)	C12	1
22uF(10%, 50V)	C15	1
15pF(10%, 50V)	C9, C10	2
27pF(10%, 50V)	C22, C23	2
BEAD(MLB-160808-0100A-N2, Mag.Layers)	L1, L2, L5	3
Reference Component Suppliers		
Bel Fuse	http://www.belfuse.com/	
Fun-Jin	TEL: 886-7-6936938, Fax: 886-7-6932596	
InNET	TEL: 886-2-26949575, Fax: 886-2-26949590(Mr. Kevein Lu)	
Mag.Layers	http://www.maglayers.com.tw/	
LANKom	TEL: 886-2-26953805, Fax: 886-2-26951407	
Pulse	http://www.pulseeng.com/	
Realtek	http://www.realtek.com.tw/	
Valor	http://www.valorinc.com/	

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Component

Reference

Quantity

* Crystal Spec.

No.	Description	Contents
1.	Nominal Frequency	25.000 MHz
2.	Oscillation Mode	Base wave
3.	Frequency Tolerance at 25°C(±°C)	±50 ppm
4.	Temperature Characteristics	±50 ppm
5.	Operating Temperature Range	-10 °C ~ +70 °C
6.	Equivalent Series Resistance	30 Ohm Max.
7.	Drive Level	0.1 mv
8.	Load Capacitance	20 pf
9.	Shunt Capacitance	7 pf Max.
10.	Insulation Resistance	Mega Ohm Min./DC 100V
11.	Test Impedance Meter	Saunders 250A
12.	Aging Rate A Year	±0.0003%

Note: This BOM is for CB39C1 Rev. 1.02 schematic file.