

US232 (USB <-> RS232 Serial Cable) Bill of Materials

Item	Quantity	Part Value	Package	Designators	Notes
1	2	resistor - 10R	0603 SMT	R7 R8	
2	2	resistor - 220R	0603 SMT	R1 R2	
3	1	resistor - 470R	0603 SMT	R13	
4	1	resistor - 1k5	0603 SMT	R4	
5	1	resistor - 2k2	0603 SMT	R6	
6	1	resistor - 10k	0603 SMT	R3	
7	4	resistor - 100k	0603 SMT	R5 R9 R10 R12	
8	1	resistor - 470k	0603 SMT	R11	
9	3	capacitor - 47pF	0603 SMT	C14 C15 C21	
10	3	capacitor - 2.2nF	0603 SMT	C16 C17 C20	
11	2	capacitor - 10nF	0603 SMT	C11 C13	
12	1	capacitor 33nF	0603 SMT	C9	
13	11	capacitor - 0.1uF	0603 SMT	C1 C2 C3 C5 C6 C7 C8 C10 C12 C18 C19	
14	1	tantalum capacitor 10uF / 10V	SMT "B"	C4	
15	2	FERRITE BEAD	1210 SMT	FB1 FB2	
16	1	resonator - 3 pin / 6MHz		Y1	
17	1	PNP small signal transistor - BC587B	SOT-23	Q1	
18	1	IC - Sipex SP213ECA	28LD SSOP	U1	See below
19	1	IC - 93C46 EEPROM	SO-8	U2	
20	1	IC - FT8U232AM	LQFP - 32LD	U3	Free Issue
21	1	LED GREEN - 3mm		LED2	
22	1	LED RED - 3mm		LED1	
23	1	plug DB9M (with solder bucket tabs)		SKT1	
		USB cable 1m (type A plug to wire end			
24	1	with strain relief)		CN1	
25	1	PCB US232 size 30.5mm x 38.1mm			4 Layer
26	1	Plastic Enclosure			

U1 Equivalent Parts - Standard Performance Model

Sipex	SP213ECA
Maxim	MAX213CAI
Analog Devices	ADM213EARS

U1 Equivalent Parts - High Performance Model

Sipex	SP213EHCA
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