Bill Of Materials for UPS pour Raspberry PI

Design Title UPS pour Raspberry PI

Author

Document Number

Revision

Design Created Thursday, March 2, 2017 **Design Last Modified** Tuesday, March 7, 2017

Total Parts In Design 85

1		nsateurs References	Value	Stock Code	Unit Cost				
1 C3 0.1uF 453099 1 C4 2.2uF EEA-GA1H2R2H Sub-totals: 19 Résistances Quantity References Value Stock Code 7 R5-R9,R11-R12 10k MF0207F1E52-3R3 3 R2-R4 200 MF0W4FE2000A50 7 R5-R9,R11-R12 10k MF0W4FE2000A50 2 R10,R2C 6k8 MF0W4FE5001A50 2 R13-R14 56k MF0W4FE1602A50 1 R0C 16k5 MF0W4FE1652A10 1 R1C 21k MF0W4FE1652A10 1 R1C 21k MF0W4FE1652A10 1 R5B 1k3 MF0W4FE15491A10 1 R5B 1k3 MF0W4FE14681A10 1 R5B 1k3 MF0W4FE14				ECR1VPT102MFF501220	\$0.85				
C4	(C2	220uF	ECA1HHG221B	\$0.45				
Sub-totals: 19 Résistances		C3	0.1uF	<u>453099</u>	\$0.50				
19 Résistances 10 References 10 References 10 References 10 References 10 References 11 References 11 References 12 References 13 34 MF0207FTE52-3R3 13 R2-R4 200 MF0W4FF2000A50 14 RF0 REFERENCE 10 REFERENCE 16 RE	(C4	2.2uF	EEA-GA1H2R2H	\$0.55				
Cluarity References Value Stock Code	totals:				\$2.35				
1	Résist	tances							
Size				Stock Code	Unit Cos				
7		R1	3.34	MF0207FTE52-3R3	\$0.15				
2 R10,R2C 6k8 ME0W4FF6801A50 2 R13-R14 56k MF0W4FF6802A20 1 R0C 16k5 MF0W4FF1652A10 1 R1C 21k MF0W4FF102A10 1 R4A 5k5 MF0W4FF102A10 1 R5B 1k3 MF0W4FF1301A50 Sub-totals: 2 Circuits intégrés Quantity References Value Stock Code 1 U1 PIC18F25K22 PIC18F25K22-I/SP SPDIP-28 1 U2VREG 7805 L7805CV Sub-totals: 5 Transistors Quantity References Value Stock Code 2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 Q1,Q4 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 Q1,Q4 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53,YD 1 D4 GREEN L53,GD 1 D5 RED L53,HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 D7 1N5819 IN5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 D2 Yellow L53,HD 1 D6 BAT48 BAT48 1 D7 1N5819 IN5819 Sub-totals:		R2-R4	200	MF0W4FF2000A50	\$0.20				
2 R13-R14 56k MEOW4FF5602A20 1 R0C 16k5 MFOW4FF1652A10 1 R1C 21k MEOW4FF2102A10 1 R4A 5k5 MFOW4FF391A10 1 R5B 1k3 MFOW4FF391A10 1 R5B 1k3 MFOW4FF391A10 2 Circuits intégrés Quantity References Value Stock Code 1 U1 PIC18F25K22 PIC18F25K22/ISP SPDIP-28 1 U2VREG 7805 L7805CV Sub-totals: 5 Transistors Quantity References Value Stock Code 2 Q1, Q4 IRLIB9343 IRLIB9343 2 Q2, Q5 BC547 BC547B 1 Q3 IRLB9343 IRLB9343 2 Q2, Q5 BC547 BC547B 1 Q3 IRLB9343 IRLB9343 IRLB9343 2 Q1, Q4 IRLB9343 IRLB9343 2 Q2, Q5 BC547 BC547B 1 Q3 IRLB93613 IRLB9		R5-R9,R11-R12	10k	MF0W4FF1002A50	\$0.20				
1 R0C 16k5 MF0W4FF1652A10 1 R1C 21k MF0W4FF1202A10 1 R4A 5k5 MF0W4FF2102A10 1 R5B 1k3 MF0W4FF301A50 Sub-totals: 2 Circuits intégrés Quantity References Value Stock Code 1 U2VREG 7805 L7805CV Sub-totals: 5 Transistors Quantity References Value Stock Code 2 Q1,Q4 IRLB9343 IRLB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB9343 IRLB9343 2 Q2,Q6 BC547 BC547B 1 Q3 IRLB9343 IRLB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB9343 IRLB9343 1 R1B9343 IRLB9343 2 Q2,Q6 BC547 BC547B 1 Q3 IRLB9343 IRLB9343 1 Q3 IRLB9343 IRLB9343 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 IN5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 D7 1N5819 IN5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals:		R10,R2C	6k8	MF0W4FF6801A50	\$0.20				
R1C		R13-R14	56k	MF0W4FF5602A20	\$0.20				
R4A		R0C	16k5	MF0W4FF1652A10	\$0.20				
1		R1C	21k	MF0W4FF2102A10	\$0.20				
Sub-totals: 2 Circuits intégrés Quantity References Value Stock Code 1 U1 PIC18F25K22 PIC18F25K22-I/SP SPDIP-28 1 U2VREG 7805 L7805CV Sub-totals: 5 Transistors Quantity References Value Stock Code 2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 YD 1 D5 RED L53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals:		R4A	5k5	MF0W4FF5491A10	\$0.20				
2 Circuits intégrés Stock Code	I	R5B	1k3	MF0W4FF1301A50	\$0.20				
Quantity References Value Stock Code 1 U1 PIC18F25K22 PIC18F25K22-I/SP SPDIP-28 1 U2VREG 7805 L7805CV Sub-totals: 2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BA748 BA748 BA748 BA748 BA748 D0-colspan="2">Sub-totals: 1 Miscellaneous Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs Value Audi	-totals:				\$3.75				
Quantity References Value Stock Code 1 U1 PIC18F25K22 PIC18F25K22-I/SP SPDIP-28 1 U2VREG 7805 L7805CV Sub-totals: 5 Transistors Stock Code 2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BA748 BA748 1 D7 1N5819 1N5819 Sub-totals: 1 L1 22UH 744750420220 Sub-totals: 22UH 744750420220 Sub-totals:	ircuits	s intégrés							
SPDIP-28		•	<u>Value</u>	Stock Code	Unit Cos				
Sub-totals: 5 Transistors Quantity References	l	U1	PIC18F25K22	· · · · · · · · · · · · · · · · · · ·	\$3.85				
5 Transistors Quantity References Value Stock Code 2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L 53 YD 1 D4 GREEN L 53 GD 1 D5 RED L 53 HD 1 D6 BAT48 BAT48 1 D7 1 N5819 1 N5819 Sub-totals: Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 C Connecteurs		U2VREG	7805	<u>L7805CV</u>	\$0.40				
Quantity References Value Stock Code 2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 C Onnecteurs Value Stock Code	-totals:				\$4.25				
2 Q1,Q4 IRLIB9343 IRLIB9343 2 Q2,Q5 BC547 BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 HD 1 D5 RED L53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 C onnecteurs	ransis	stors							
2 Q2,Q5 BC547B BC547B 1 Q3 IRLB3813 IRLB3813PBF Sub-totals: Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: Quantity References Value Stock Code 1 L1 2uH 744750420220 Sub-totals: 22 Connecteurs	•				Unit Cos				
1	(Q1,Q4		<u>IRLIB9343</u>	\$1.35				
Sub-totals: 7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs	(Q2,Q5	BC547	<u>BC547B</u>	\$0.20				
7 Diodes Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L53 YD 1 D4 GREEN L53 GD 1 D5 RED L53 HD 1 D6 BAT48 1 D7 1N5819 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs	(Q3	IRLB3813	IRLB3813PBF	\$1.95				
Quantity References Value Stock Code 2 D1,D3 SB320 SB320 1 D2 YELLOW L 53 YD 1 D4 GREEN L 53 GD 1 D5 RED L 53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs	-totals:				\$5.05				
2 D1,D3 SB320 1 D2 YELLOW L 53 YD 1 D4 GREEN L 53 GD 1 D5 RED L 53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 Sub-totals: 1 Miscellaneous Quantity References 1 L1 22uH Sub-totals: 22 Connecteurs	iodes	S							
1 D2 YELLOW L 53 YD 1 D4 GREEN L 53 GD 1 D5 RED L 53 HD 1 D6 BAT48 BAT48 1 D7 1 N5819 1 N5819 Sub-totals: Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs	•				Unit Cos				
1 D4 GREEN L 53 GD 1 D5 RED L 53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs	ا	D1,D3		<u>SB320</u>	\$0.70				
1 D5 RED L 53 HD 1 D6 BAT48 BAT48 1 D7 1N5819 1N5819 Sub-totals: Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs	l	D2	YELLOW	<u>L 53 YD</u>	\$0.15				
1 D6 BAT48 1 D7 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs		D4	GREEN	<u>L 53 GD</u>	\$0.15				
1 D7 1N5819 1N5819 Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs		D5	RED	<u>L 53 HD</u>	\$0.15				
Sub-totals: 1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs		D6	BAT48	<u>BAT48</u>	\$0.35				
1 Miscellaneous Quantity References Value Stock Code 1 L1 22uH 744750420220 Sub-totals: 22 Connecteurs		D7	1N5819	<u>1N5819</u>	\$0.30				
QuantityReferencesValueStock Code1L122uH744750420220Sub-totals:22 Connecteurs	totals:				\$2.50				
1 L1 22uH <u>744750420220</u> Sub-totals: 22 Connecteurs	1 Miscellaneous								
Sub-totals: 22 Connecteurs	-				Unit Cos				
22 Connecteurs	1	L1	22uH	<u>744750420220</u>	\$2.20				
	totals:				\$2.20				
Quantity References Value Stock Code	Conne	ecteurs							
Scaliffity Holoronoco	ntity <u>F</u>	References	<u>Value</u>	Stock Code	<u>Unit Cos</u>				

1	J6	Bouton Poussoir	<u>1825910-2</u>	\$0.25				
1	J7	Support Cl 28 poles	ICFG28/7	\$0.60				
1	J2ACC	B02B-XASK-1	B02B-XASK-1	\$0.50				
1	J2ACC1	Acc. Lilon	<u>US18650VTC5A</u>	\$12.95				
5	J2ACC2-J2ACC3,J3l2C1- J3l2C3	BXA-001T-P0.6	BXA-001T-P0.6	\$0.20				
1	J2ACC4	XAP-02V-1	XAP-02V-1	\$0.25				
1	J3I2C	B03B-XASK-1	B03B-XASK-1	\$0.70				
1	J3I2C4	XAP-03V-1	XAP-03V-1	\$0.30				
1	J4RASP	barrette mâle 2x20	944-13-040-00	\$1.15				
1	J4RASP1	Cable plat 40	<u>49900051</u>	\$2.75				
2	J4RASP2-J4RASP3	Embase femelle 20x2	<u>PV40OZ</u>	\$0.60				
1	J5PICKIT	barrette mâle coudée 6 pôles	088-1-006-0-S-XS0-1080	\$0.40				
1	J6ICD	RJ12 MEB6/6PL	MEB6/6PL	\$0.75				
1	P1ALIM	DC-10-PCB	FC681478	\$1.00				
1	P1ALIM1	Cable Jummelé 2 x 0.5mm2	LiY-Z 49900249	\$0.75				
1	P1ALIM2	Conn. Basse Tension Male Droit 5.5/2.1	Cliff FC6814785	\$1.10				
1	P1ALIM3	Conn. Basse Tension Male coudé 5.5/2.1	BKL 072115	\$1.35				
Sub-totals	Sub-totals:							
Sub-totals: \$27.00 1 Dissipateurs								
	<u>References</u>	<u>Value</u>	Stock Code	Unit Cost				
1	T1	V4330N	<u>V4330N</u>	\$1.50				
Sub-totals: \$1.50								
	ncaillerie							
Quantity		<u>Value</u>	Stock Code	Unit Cost				
4	QUINQ1-QUINQ4	Ecrou M3	DIN 439 A4 M3	\$0.05				
2	QUINQ5-QUINQ6	Goujon de distance 10mm	6035/10 M3	\$0.45				
4	QUINQ7-QUINQ10	Goujon de distance 25mm	6035/25 M3	\$0.45				
6	QUINQ11-QUINQ16	Rondelle M3	D9021:A2K M3	\$0.02				
8	QUINQ17-QUINQ24	Vis à tête bombée M3	815322 M3	\$0.03				
Sub-total:	S:			\$3.26				
Totals:				\$51.86				

Thursday, March 9, 2017 6:42:55 AM