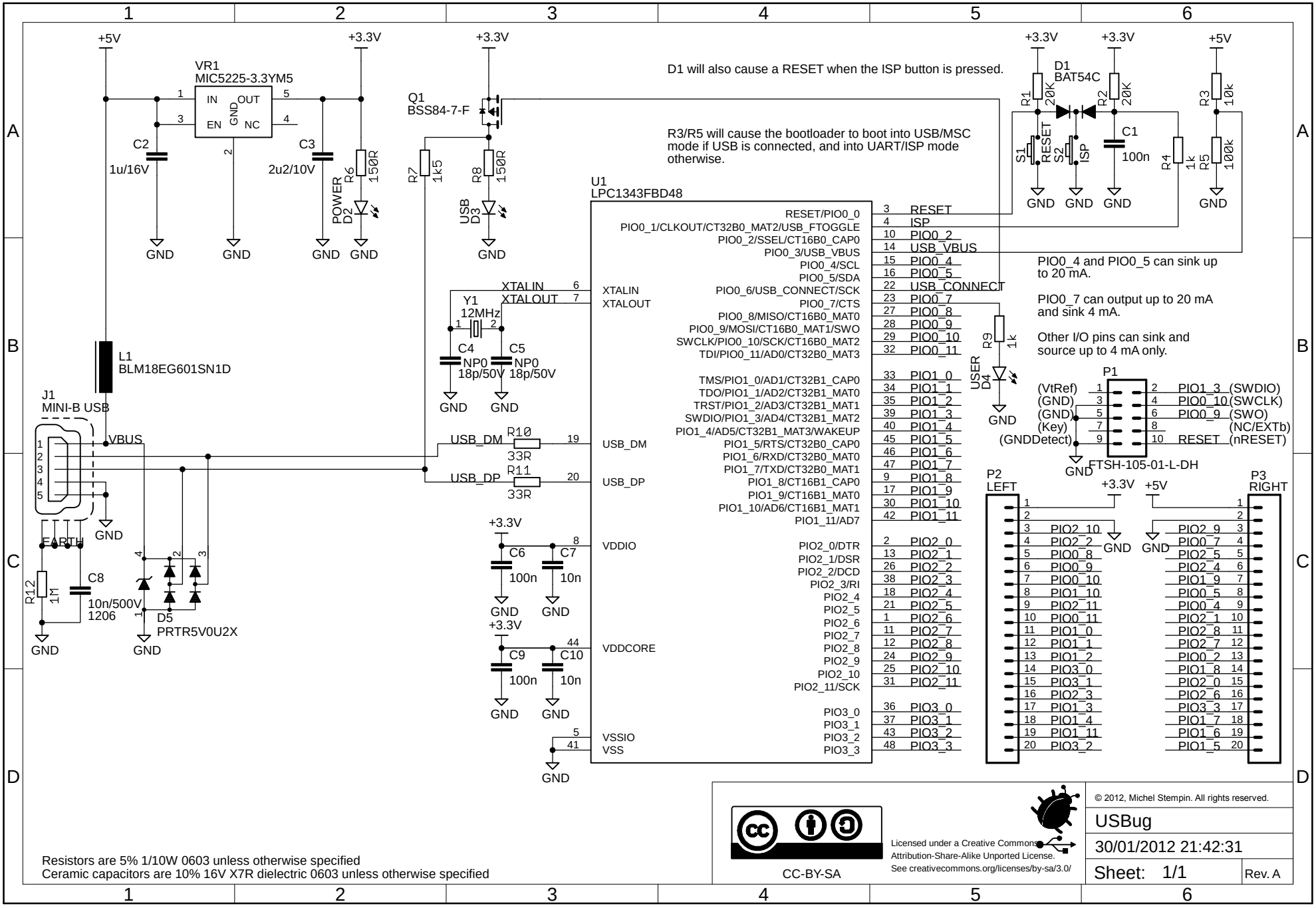
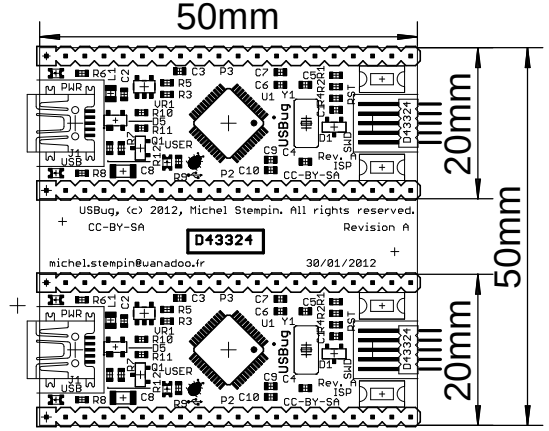


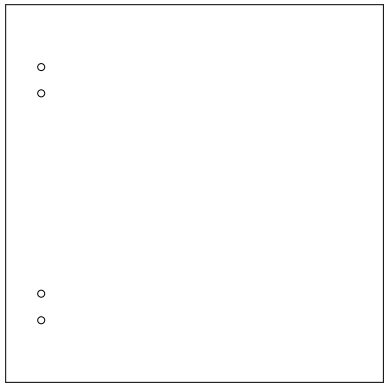
© 2012, Michel Stempin. All rights reserved.
Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/3.0/
CC-BY-SA

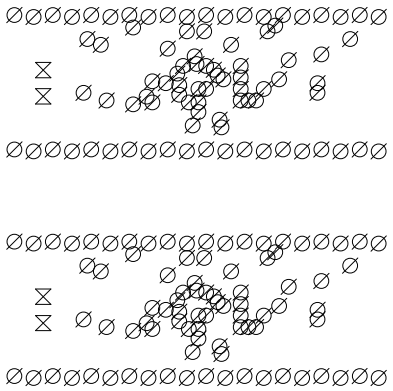
USBug	
30/01/2012 21:42:31	
Sheet: 1/1	Rev. A

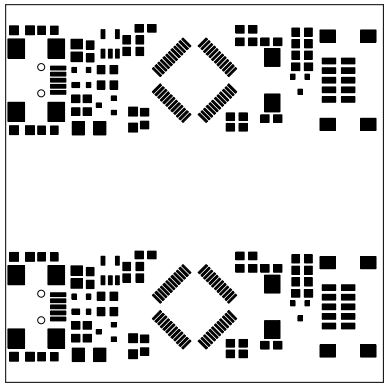


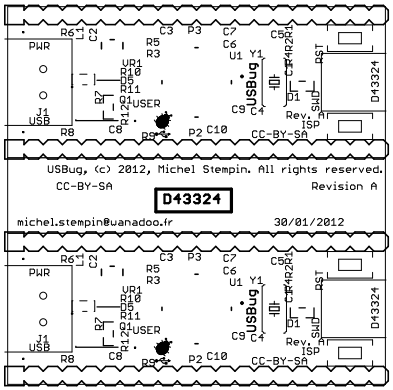
© 2012, Michel Stempin. All rights reserved.
Licensed under a Creative Commons
Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/3.0/

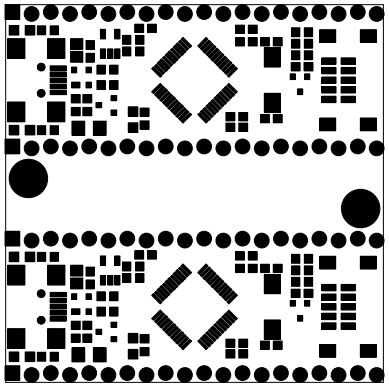
CC-BY-SA

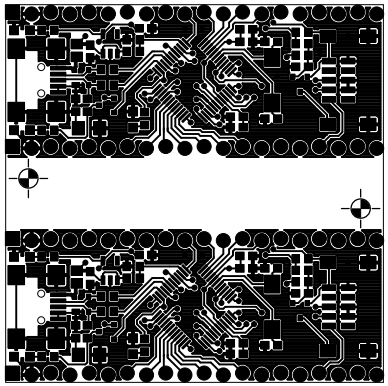


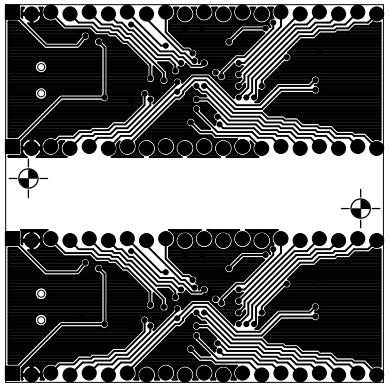


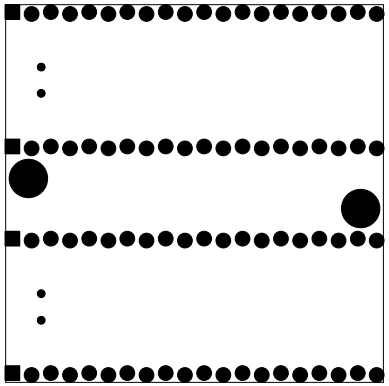



USBug, (c) 2012, Michel Stempin. All rights reserved.
CC-BY-SA
Revision A
D43324
michel.stempin@wanadoo.fr
30/01/2012

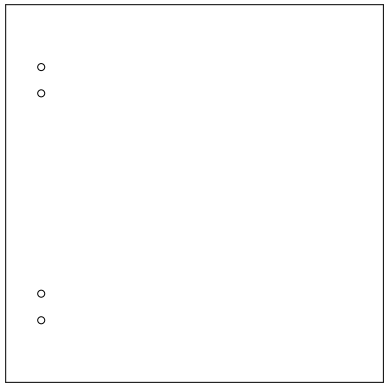








USB
Revision 2
USBug, (c) 2012, Stephin. All rights reserved.
LC-BAY-SA
GND
+3.3V
+5V
GND
bIO3_2
bIO3_3
bIO3_4
bIO3_5
bIO3_6
bIO3_7
bIO3_8
bIO3_9
bIO3_10
bIO3_11
bIO3_12
bIO3_13
bIO3_14
bIO3_15
bIO4_0
bIO4_1
bIO4_2
bIO4_3
bIO4_4
bIO4_5
bIO4_6
bIO4_7
bIO4_8
bIO4_9
bIO4_10
bIO4_11
bIO4_12
bIO4_13
bIO4_14
bIO4_15
USB
Revision 2
USBug, (c) 2012, Stephin. All rights reserved.
LC-BAY-SA
GND
+3.3V
+5V
GND
bIO3_2
bIO3_3
bIO3_4
bIO3_5
bIO3_6
bIO3_7
bIO3_8
bIO3_9
bIO3_10
bIO3_11
bIO3_12
bIO3_13
bIO3_14
bIO3_15
bIO4_0
bIO4_1
bIO4_2
bIO4_3
bIO4_4
bIO4_5
bIO4_6
bIO4_7
bIO4_8
bIO4_9
bIO4_10
bIO4_11
bIO4_12
bIO4_13
bIO4_14
bIO4_15



USBug

Qty	Value	Device	Parts	Supplier	Supplier Part Number	Supplier Part Number	Manufacturer	Manufacturer Part Number	Description	Price/1	Price/50	Price/100	Price/250	Price/500	Price/1000	Total/1
3	100n	CAP_0603	C1, C6, C9	DigiKey	478-1239-1-ND	478-1239-6-ND	AVX Corporation	0603YC104KAT2A	CAP CER 0.1UF 16V 10% X7R 0603	$0,10000		$0,00940	$0,00764	$0,00654	$0,00500	$0,30000
1	1u/16V	CAP_0603	C2	DigiKey	587-1241-1-ND	587-1241-6-ND	Taiyo Yuden	EMK107B7105KA-T	CAP CER 1UF 16V 10% X7R 0603	$0,20000	$0,06000	$0,04500	$0,03252	$0,02400	$0,01625	$0,20000
1	2u2/10V	CAP_0603	C3	DigiKey	587-2983-1-ND	587-2983-6-ND	Taiyo Yuden	LMK107B7225KA-T	CAP CER 2.2UF 10V 10% X7R 0603	$0,32000	$0,14000	$0,11200	$0,08000	$0,05440	$0,04400	$0,32000
2	18p	CAP_0603	C4, C5	DigiKey	445-1272-1-ND	445-1272-6-ND	TDK Corporation	C1608C0G1H180J	CAP CER 18PF 50V 5% NP0 0603	$0,30000		$0,01380	$0,01124	$0,00962	$0,00750	$0,60000
2	10n	CAP_0603	C7, C10	DigiKey	445-6855-1-ND	445-6855-6-ND	TDK Corporation	C1608X7R1C103K	CAP CER 10000PF 16V 10% X7R 0603	$0,24000		$0,01100	$0,00900	$0,00770	$0,00600	$0,48000
1	10n/500V	CAP_1206	C8	DigiKey	709-1027-1-ND	709-1027-6-ND	Johanson Dielectrics Inc	501R18W103KV4E	CAP CER 10000PF 500V X7R 1206	$0,32000		$0,11270	$0,08052	$0,05474	$0,04428	$0,32000
1	BAT54C	BAT54C	D1	DigiKey	BAT54C-FDICT-ND	BAT54C-FDIDKR-ND	Diodes Inc	BAT54C-7-F	DIODE SCHOTTKY DUAL 30V SOT23-3	$0,20000		$0,12050	$0,07100	$0,05890	$0,04017	$0,20000
1	POWER	LED_0805	D2	DigiKey	350-2038-1-ND	350-2038-1-ND	Dialight	598-8110-107F	LED ALINGAP RED CLEAR 0805 SMD	$0,39000		$0,16430	$0,11624	$0,09920	$0,07750	$0,39000
1	USB	LED_0805	D3	DigiKey	350-2032-1-ND	350-2032-1-ND	Dialight	598-8140-107F	LED ALINGAP YLW CLEAR 0805 SMD	$0,46000		$0,19610	$0,13876	$0,11840	$0,09250	$0,46000
1	USER	LED_0805	D4	DigiKey	350-2035-1-ND	350-2035-1-ND	Dialight	598-8170-107F	LED ALINGAP GREEN CLEAR 0805 SMD	$0,41000		$0,17490	$0,12376	$0,10560	$0,08250	$0,41000
1	PRTR5V0U2X	PRTR5V0U2X	D5	DigiKey	568-4140-1-ND	568-4140-6-ND	NXP Semiconductors	PRTR5V0U2X,215	DIODE ESD PROTECTION SOT143B	$0,57000		$0,35780	$0,31036	$0,26286	$0,20265	$0,57000
1	MINI-B USB	MINI-B_USBUX60-MB-5ST	J1	DigiKey	H2959CT-ND	H2959DKR-ND	Hirose Electric Co Ltd	UX60-MB-5ST	CONN RECEPT MINI USB2.0 5POS	$1,25000	$0,82500	$0,74250	$0,62700	$0,52800	$0,52800	$1,25000
1	BLM18EG601SN1D	FERRITE_BEAD0603	L1	DigiKey	490-3994-1-ND	490-3994-6-ND	Murata Electronics North America	BLM18EG601SN1D	FILTER CHIP 600 OHM 500MA 0603	$0,38000	$0,21840	$0,18200	$0,13652	$0,11648	$0,09100	$0,38000
1	FTSH-105-01-L-DH	FTSH-105-01-L-DH	P1	DigiKey	SAM1160-05-ND	SAM1160-05-ND	Samtec Inc	FTSH-105-01-L-DH	CONN HEADR 10POS DL .05" R/A SMD	$3,84000		$2,81600		$2,24000	$1,82400	$3,84000
1	LEFT	HEADER_1X20_LOCK	P2	DigiKey	WM6420-ND	WM6420-ND	Molex Connector Corporation	22-28-4200	CONN HEADER 20POS .100 VERT TIN	$0,64000		$0,47160		$0,37276	$0,32000	$0,64000
1	RIGHT	HEADER_1X20_LOCK	P3	DigiKey	WM6420-ND	WM6420-ND	Molex Connector Corporation	22-28-4200	CONN HEADER 20POS .100 VERT TIN	$0,64000		$0,47160		$0,37276	$0,32000	$0,64000
1	BSS84-7-F	BSS84-7-F	Q1	DigiKey	BSS84-FDICT-ND	BSS84-FDIDKR-ND	Diodes Inc	BSS84-7-F	MOSFET P-CH 50V 130MA SOT23-3	$0,39000		$0,16380	$0,11580	$0,09270	$0,07110	$0,39000
2	20K	RES_0603	R1, R2	DigiKey	P20KGCT-ND	P20KGDKR-ND	Panasonic - ECG	ERJ-3GEYJ203V	RES 20K OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,20000
2	33R	RES_0603	R10, R11	DigiKey	P33GCT-ND	P33GDKR-ND	Panasonic - ECG	ERJ-3GEYJ330V	RES 33 OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,20000
1	1M	RES_0603	R12	DigiKey	P1.0MGCT-ND	P1.0MGDKR-ND	Panasonic - ECG	ERJ-3GEYJ105V	RES 1.0M OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,10000
1	10k	RES_0603	R3	DigiKey	P10KGCT-ND	P10KGDKR-ND	Panasonic - ECG	ERJ-3GEYJ103V	RES 10K OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,10000
2	1k	RES_0603	R4, R9	DigiKey	P1.0KGCT-ND	P1.0KGDKR-ND	Panasonic - ECG	ERJ-3GEYJ102V	RES 1.0K OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,20000
1	100k	RES_0603	R5	DigiKey	P100KGCT-ND	P100KGDKR-ND	Panasonic - ECG	ERJ-3GEYJ104V	RES 100K OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,10000
2	150R	RES_0603	R6, R8	DigiKey	P150GCT-ND	P150GDKR-ND	Panasonic - ECG	ERJ-3GEYJ151V	RES 150 OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,20000
1	1k5	RES_0603	R7	DigiKey	P1.5KGCT-ND	P1.5KGDKR-ND	Panasonic - ECG	ERJ-3GEYJ152V	RES 1.5K OHM 1/10W 5% 0603 SMD	$0,10000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,10000
1	RESET	SPST_SWITCH	S1	DigiKey	679-2307-1-ND	679-2307-6-ND	APEM Components, LLC	ADTSM32RVTR	SWITCH TACTILE SPST-NO 0.05A 12V	$0,86000	$0,00920	$0,00700	$0,00520	$0,00384	$0,00256	$0,86000
1	ISP	SPST_SWITCH	S2	DigiKey	679-2307-1-ND	679-2307-6-ND	APEM Components, LLC	ADTSM32RVTR	SWITCH TACTILE SPST-NO 0.05A 12V	$0,86000	$0,70100	$0,61990	$0,56596	$0,53900	$0,53900	$0,86000
1	LPC1343FBD48	LPC1343FBD48	U1	DigiKey	568-4945-ND	568-4945-ND	NXP Semiconductors	LPC1343FBD48,151	IC MCU 32BIT 32KB FLASH 48LQFP	$4,51000		$3,30050	$2,97852	$2,67260	$2,25400	$4,51000
1	MIC5225-3.3YM5	MIC5225-3.3YM5	VR1	DigiKey	576-2980-1-ND	576-2980-6-ND	Micrel Inc	MIC5225-3.3YM5 TR	IC REG 3.3V SOT23-5	$0,75000		$0,50000	$0,37500	$0,35000	$0,35000	$0,75000
1	12MHz	CRYSTAL_50X32	Y1	DigiKey	644-1034-1-ND	644-1034-6-ND	NDK	NX5032GA-12.000000MHZ-LN-CD-1	CRYSTAL 12.000000 MHZ 8PF SMD	$0,81000	$0,61560	$0,48600		$0,41040	$0,41040	$0,81000
							TOTAL									$19,88000