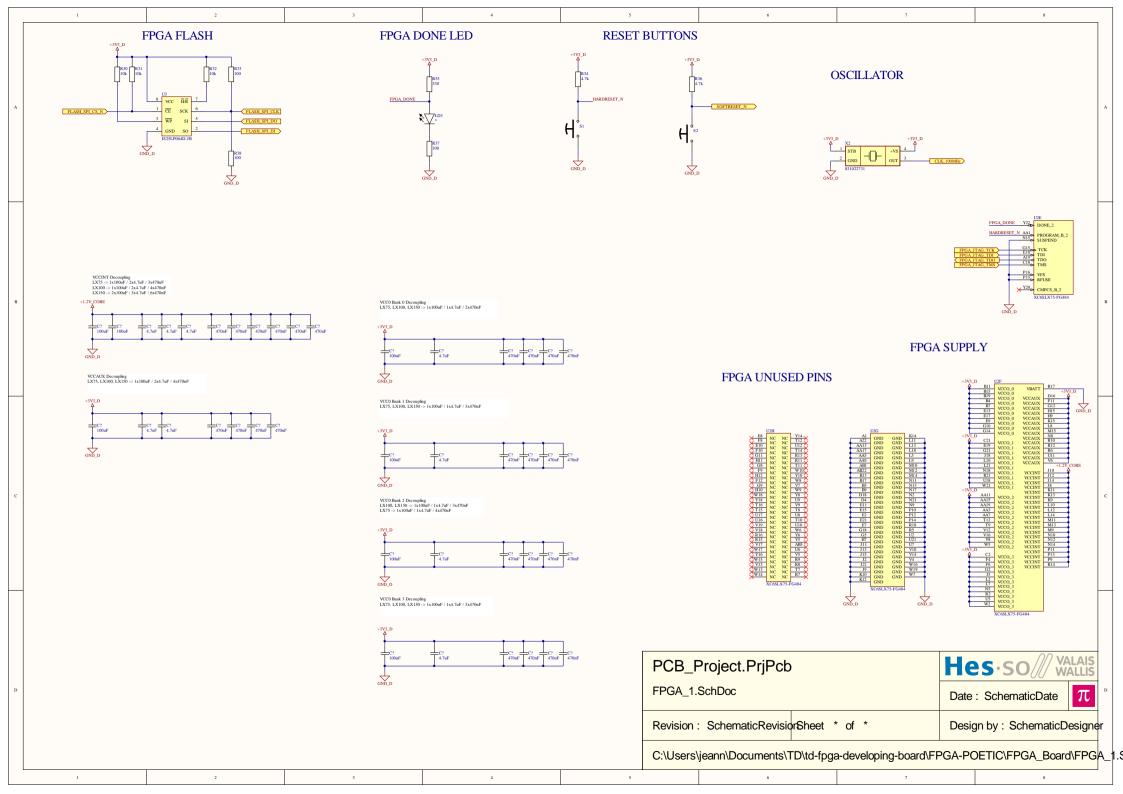
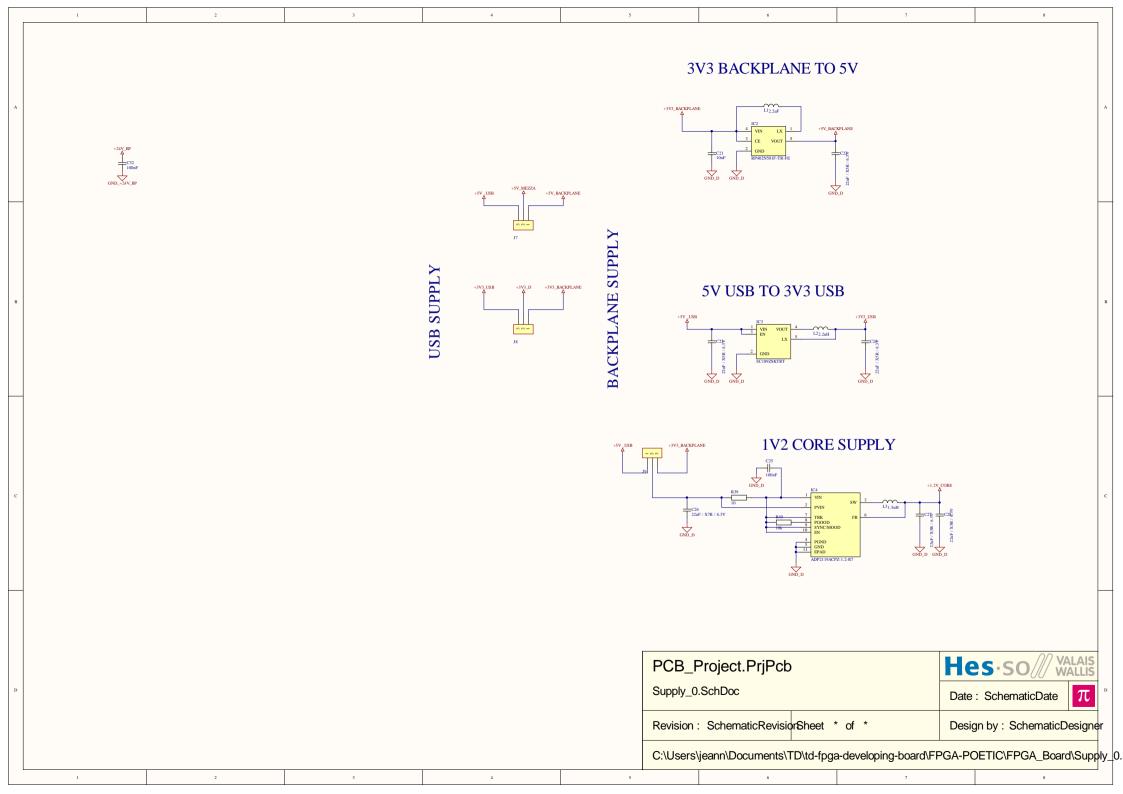


Hes·so// WALAIS PCB_Project.PrjPcb FPGA_0.SchDoc π Date : SchematicDate Revision: SchematicRevisiorSheet * of * Design by : SchematicDesigner

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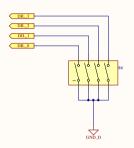




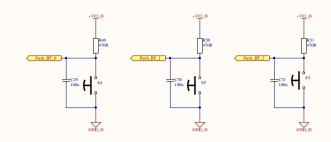
LEDS

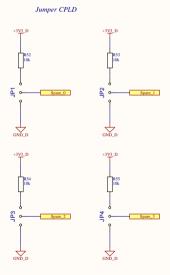


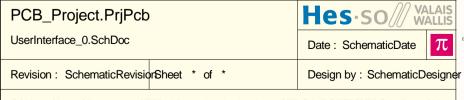
DIL SWITCH 4 POS



BUTTONS







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Comment	Donor's t's s	Doolesstee	Englands	Librari.	Oug-tit-
	Description Capacitor X7R 10% 50V	Designator	Footprint CAPACITOR 1608	LibRef	Quantity
10nF	1608(0603) Capacitor X7R 10% 50V	C1, C5, C6	REFLOW	Capacitor	3
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor X7R 10% 50V				
	1608(0603), Capacitor, Capacitor X7R 10% 50V	C2, C3, C11, C13, C15, C16, C17, C19, C20,	CAPACITOR 1608		
100nF	1608(0603)	C25, C32	REFLOW	Capacitor	11
10uF	Capacitor X7R 10% 50V 1608(0603), Capacitor	C4, C21	CAPACITOR 2012 REFLOW	Capacitor	2
100pF	Capacitor X7R 10% 50V 1608(0603)	C7	CAPACITOR 1608 REFLOW	Capacitor	1
0.022uF	Capacitor	C8	CAPACITOR 1608 REFLOW	Capacitor	1
1700pF	Capacitor	C9	CAPACITOR 1608 REFLOW	Capacitor	
	Capacitor X7R 10% 50V		CAPACITOR 2012		
22uF	1608(0603) Capacitor X7R 10% 50V	C10, C12, C14	REFLOW CAPACITOR 2012	Capacitor	3
luF	1608(0603)	C18	REFLOW CAPACITOR 2012	Capacitor	1
22uF / X5R / 6.3V	Capacitor	C22, C23, C24, C27, C28	REFLOW	Capacitor	5
22uF / X7R / 6.3V	Capacitor	C26	CAPACITOR 2012 REFLOW	Capacitor	1
100n	Capacitor X7R 10% 50V 2012(0805)	C29, C30, C31	CAPACITOR 2012 REFLOW	Capacitor	-
			CAPACITOR 1608		
1.7uF	Capacitor	C?	REFLOW CAPACITOR 3216	Capacitor	9
100uF	Capacitor	C?	REFLOW CAPACITOR 1608	Capacitor	7
170nF	Capacitor	C?	REFLOW DIODE SOD323	Capacitor	26
IN4148	Diode generic 2 leads	D1, D2	REFLOW	DIODE	2
(SZ8041TL	Integrated Circuit	IC1	QFP50P900X900X105- 48N	KSZ8041TL	1
RP402N501F-TR-FE	Integrated Circuit	IC2	SOT95P280X130-5N	RP402N501F-TR-FE	1
SC189ZSKTRT	Integrated Circuit	IC3	SOT95P280X145-5N SON50P300X300X85-	SC189ZSKTRT	1
ADP2119ACPZ-1.2-R7	Integrated Circuit	IC4	11N	ADP2119ACPZ-1.2-R7	1
RNI SMC-B50-SMD-BA	Female 1.27 pitch 2x25 pin connector	J1, J2	ERNI SMC-B50-SMD-BA	ERNI SMC-B50-SMD-BA	2
			FlatCable2x5 2MM Straight TH FCI 98414-		
FlatCable2x5	FlatCable2x5	J3	G06-10ULF	FlatCable2x5	1
9031966921	DIN41612 MALE 3X32 ABC R90	14	DIN41612 MALE 3X32 ABC R90	DIN41612 MALE 3X32 ABC R90	1
JSB-B-TH-AMPHENOL JE27-BC54-130	USB-B-TH-AMPHENOL UE27-BC54-130	J5	USB-B TH AMPHENOL UE27-BC54-130	USB-B-TH-AMPHENOL UE27-BC54-130	
	Integrated connector	35			
RJ45-PULSE- IOO11D21BNL	modules 10/100 base- TX belMag with LEDs	J6	RJ45 PULSE J0011D21BNL	RJ45 PULSE J0011D21BNL	1
	Plug connector	J7, J8, J9	PinHeader1x3 P2.54	PinHeader1x3	3
(Value)	JUMPER 3 POS	JP1, JP2, JP3, JP4	JUMPER3 TH	JUMPER 3 POS	4
2.2uF 2.2uH	Inductor	L1 L2	TDK VLCF5020-1 TDK VLCF5020-1	Inductor Inductor	1
1.5uH	Inductor	L3	TDK VLCF5020-1	Inductor	1
	LED generic	LD1, LD2, LD3	LED 1608 REFLOW	LED	3
568-0721-111F	LED Dialight 568-0721- 111F	LD4, LD5	LED Dialight 568-0721- 111	LED Dialight 568-0721- 111F	2
10k	Resistor 1% 50V 100mW 1608(0603)	R1, R2, R3, R4, R10, R30, R31, R32	RESISTOR 1608 REFLOW	Resistor	
330	Resistor 1% 50V 125mW 2012(0805)	R5, R6, R35	RESISTOR 2012		
	Resistor 1% 50V		REFLOW RESISTOR 1608	Resistor	,
errite	100mW 1608(0603) Resistor 1% 50V	R7, R22, R24, R25	REFLOW RESISTOR 1608	Resistor	4
1k7	100mW 1608(0603)	R8, R9	REFLOW RESISTOR 1608	Resistor	2
nm	Resistor	R11, R12	REFLOW	Resistor	
1.7k	Resistor 1% 50V 100mW 1608(0603)	R13	RESISTOR 1608 REFLOW	Resistor	1
0			RESISTOR 1608 REFLOW		
	Resistor	R14	RESISTOR 1608	Resistor	,
19.9	Resistor Resistor 1% 50V	R15, R16, R17, R18	REFLOW RESISTOR 1608	Resistor	4
5.49k	100mW 1608(0603)	R19	REFLOW RESISTOR 1608	Resistor	1
330	Resistor	R20, R21	REFLOW	Resistor	
IOM	Resistor	R23	RESISTOR 1608 REFLOW	Resistor	1
VC	Resistor 1% 50V 125mW 2012(0805)	R26. R?	RESISTOR 2012 REFLOW	Resistor	
	Resistor 1% 50V		RESISTOR 2012		· ·
)	125mW 2012(0805)	R27, R28, R?	REFLOW RESISTOR 2012	Resistor	3
					3
	125mW 2012(0805)	R29, R34, R36	REFLOW DESISTING 1608	Resistor	
1.7k	Resistor 1% 50V 100mW 1608(0603)	R29, R34, R36 R33, R38	RESISTOR 1608 REFLOW	Resistor Resistor	3
1.7k	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805)		RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW		1
1.7k 100	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V	R33, R38	RESISTOR 1608 REFLOW RESISTOR 2012	Resistor	1
1.7k 100 100	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V	R33, R38 R37 R39	RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012	Resistor Resistor	1
1.7k 100 100 100	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44,	RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 1608	Resistor Resistor Resistor Resistor	1
.7k 00 00 00 0	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V	R33, R38 R37 R39 R40, R52, R53, R54, R55	RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012	Resistor Resistor	1 1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
.7k 00 00 00 0 0 0k 20R	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44,	RESISTOR 160B REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 160B REFLOW RESISTOR 160B REFLOW RESISTOR 2012 REFLOW	Resistor Resistor Resistor Resistor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.7k 100 100 10 10 10k	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 105mW 1608(0603) Resistor 1% 50V 125mW 2012(0805)	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44, R45, R46, R47, R48 R49, R50, R51	RESISTOR 1608 REFLOW RESISTOR 2012	Resistor Resistor Resistor Resistor Resistor Resistor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.7k 100 100 10 10 10k	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 105mW 2012(0805) Resistor 1% 50V 105mW 2012(0805) Push Button, 2 pins	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44, R45, R46, R47, R48	RESISTOR 160B REFLOW RESISTOR 2012 REFLOW RESISTOR 2010 RE	Resistor Resistor Resistor Resistor Resistor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.7k 000 000 00 00 0k 200 200	Resistor 1% 50V 100mW 1608(0603) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 125mW 2012(0805) Resistor 1% 50V 105mW 1608(0603) Resistor 1% 50V 125mW 2012(0805)	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44, R45, R46, R47, R48 R49, R50, R51	RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW PUSH BUILTON C2.5X3.0 OMRON B3U-1000P(M)-B Push Button C2.7X3.7 TE FSMRAHUT F FSMRAHUT	Resistor Resistor Resistor Resistor Resistor Resistor	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.7k 1000 100 100 100k 100k	Resistor 1% 50V 100mW 150(6)603) Resistor 1% 50V 125mW 2012(885) Resistor 1% 50V 125mW 2012(8865) Resistor 1% 50V 125mW 2012(8865) Resistor 1% 50V 100mW 150(80603) Resistor 1% 50V 125mW 2012(8865) Push Button, 2 pins Push Button, 2 pins MULTICOMP MCDHN-	R33, R38 R37 R39 R40, R52, R53, R54, R55 R81, R82, R43, R84, R45, R46, R47, R48 R49, R50, R51 S1, S2 S3, S4, S5	RESISTOR 1008 RESISTOR 2012 RESISTOR 2012 REFLOW RESISTOR 1608 REFLOW RESISTOR 2012 RE	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Push Button 2Pins Push Button 2Pins	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.7k 000 000 00 00 0k 200 200	Resistor 1% 50V 100mW 166(8)003) Resistor 1% 50V 125mW 2012(905) Resistor 1% 50V 125mW 2012(905) Resistor 1% 50V 125mW 2012(905) Resistor 1% 50V 100mW 166(8)023) Resistor 1% 50V 100mW 166(8)023) Resistor 1% 50V 100mW 166(8)023) Resistor 1% 50V 105mW 2012(8)025) Push Button. 2 pins MULTICOMP MCDHN- 04F 2-8H ADC with Ultra	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44, R45, R46, R47, R48 R49, R50, R51	RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW RESISTOR 1608 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 2017 RE	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	
1.7k 1000 100 10 10 10 10 10 17 17 17 17 17 17 17 17 17 17 17 18 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Resistor 1% 50V 100mW 1668(903) Resistor 1% 50V 125mW 2012(908) Resistor 1% 50V 125mW 2012(908) Resistor 1% 50V 125mW 2012(908) Resistor 1% 50V 100mW 1668(902) Push Button 2 pins Push Button 2 pins MULTICOMP MCDHN 24-81 AD with Ultra Low Noise PCIA.	R33, R38 R37 R39 R40, R52, R53, R54, R55, R41, R42, R41, R44, R45, R46, R47, R48 R49, R50, R51 S1, S2 S3, S4, S5	RESISTOR 1408 RESISTOR 2012 RE	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Push Button 2Pins Push Button 2Pins DIP Switch 4Pos	1 1 5 8 3 3
1.7k 1000 100 10 10 10 10 10 17 17 17 17 17 17 17 17 17 17 17 18 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Resistor 1% 50V 100mW 166(8)0033 Resistor 1% 50V 125mW 2012(8)005 Resistor 1% 50V 125mW 2012(8)005 Resistor 1% 50V 125mW 2012(8)005 Resistor 1% 50V 125mW 2012(8)005 Push Button. 2 pins Push Button. 2 pins MULTICOMP MCDHN-	R33, R38 R37 R39 R40, R52, R53, R54, R55 R81, R82, R43, R84, R45, R46, R47, R48 R49, R50, R51 S1, S2 S3, S4, S5	RESISTOR 1408 REFLOW RESISTOR 2012 RESISTOR 1408 RESISTOR 2012 RESISTOR	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Push Button 2Pins Push Button 2Pins	2 2 3
1.7k 1.7k 1.000 1000 101 10k 10k 1070R 170R 171232RQ	Resistor 1'15-50V TOMOWN 1508(90003) Resistor 1'15-50V TOSHW 2012(9000) Resistor 1'15-50V TOSHW 2012(9000) Resistor 1'15-50V TOSHW 2012(9000) Resistor 1'15-50V TOSHW 2012(9000) Push Button, 2 pins Push Button, 2 pins MULTICOMP MCOHN- OFF Special 1'15-50V TOSHW 2012(9000) Push Button, 2 pins MULTICOMP MCOHN- OFF Special 1'15-50V TOSHW 2012(9000) TOSHW	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44, R45, R46, R47, R48 R49, R50, R51 S1, S2 S3, S4, S5 S6	RESSTOR 1408 RESTOR 2012 RESSTOR 2012 RESSTO	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Push Button 2Pins Push Button 2Pins DIP Switch 4Pos F1232RQ	2
1.7k 1.7k 1.000 1000 101 10k 10k 1070R 170R 171232RQ	Resistor 1'15-50V TolomW 1668(9003) Resistor 1'15-50V TolomW 2016(9003) Resistor 1'15-50V TolomW 2016(9003) Resistor 1'15-50V TolomW 2012(9003) Resistor 1'15-50V TolomW 1668(9003) Push Button, 2 pins Push Button, 2 pins MULTICOMP MCDHN- CONTROL 1'10-10-10-10-10-10-10-10-10-10-10-10-10-1	R33, R38 R37 R39 R40, R52, R53, R54, R55, R41, R42, R41, R44, R45, R46, R47, R48 R49, R50, R51 S1, S2 S3, S4, S5	RESISTOR 1408 REFLOW RESISTOR 2012 RESISTOR 2012 RESISTOR 2012 REFLOW RESISTOR 2012 REFLOW RESISTOR 1408 RESISTOR	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Push Button 2Pins Push Button 2Pins DIP Switch 4Pos	2 1 1 5 8 8 3 3 2 2 3 3
4.7k 100 100 100 100 100 100 100 100 1208 1208	Resistor 17-8 50V OlomW 166(8)0003 Resistor 17-8 50V 256W 27-8 250W Resistor 17-8 50V 1256W 2012(8)003 1256W 2012(8)03 1256	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R42, R43, R44, R45, R46, R47, R48 R49, R50, R51 S1, S2 S3, S4, S5 S6	RESSTOR 1408 RETLOW RESSTOR 2012 RESSTOR 2012 RESSTOR 2012 RETLOW RESSTOR 2012 RETLOW RESSTOR 1408 RESSTO	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Push Button 2Pins Push Button 2Pins DIP Switch 4Pos F7232RQ XC65UX75-FG484 IS25LP644D-8	2 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4.7k 100 100 100 10 10 10k 120R 1270R 1270	Resistor 1'15-50V TolomW 1668(9003) Resistor 1'15-50V TolomW 2016(9003) Resistor 1'15-50V TolomW 2016(9003) Resistor 1'15-50V TolomW 2012(9003) Resistor 1'15-50V TolomW 1668(9003) Push Button, 2 pins Push Button, 2 pins MULTICOMP MCDHN- CONTROL 1'10-10-10-10-10-10-10-10-10-10-10-10-10-1	R33, R38 R37 R39 R40, R52, R53, R54, R55 R41, R62, R63, R64, R65 R49, R50, R51 S1, S2 S3, S4, S5 S6	RESISTOR 1408 REFLOW RESISTOR 2012 RESISTOR 2012 RESISTOR 2012 RESISTOR 2012 RESISTOR 2012 RESISTOR 1408 REFLOW RESISTOR 2012 RE	Resistor Dis Switch Spins DIP Switch APos FT233RO XC451X75-FG484	2 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1